# THE OHIO STATE UNIVERSITY OFFICIAL PROCEEDINGS OF THE ONE THOUSAND FOUR HUNDRED AND NINETY-FIFTH MEETING OF THE BOARD OF TRUSTEES

Columbus, Ohio, April 6, 2018

The Board of Trustees met on Friday, April 6, 2018, at the Longaberger Alumni House in Columbus, Ohio, pursuant to adjournment.

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Minutes of the last meeting were approved.

The chairman, Mr. Shumate, called the meeting of the Board of Trustees to order on Friday, April 6, 2018, at 10:00 a.m.

Present: Alex Shumate, Janet B. Reid, William G. Jurgensen, Clark C. Kellogg, Timothy P. Smucker, Cheryl L. Krueger, Michael J. Gasser, Brent R. Porteus, Alex R. Fischer, Abigail S. Wexner, Hiroyuki Fujita, Alan A. Stockmeister, John W. Zeiger, Lydia A. Lancaster, H. Jordan Moseley, Alan VanderMolen, James D. Klingbeil and Janet Porter. Jeffrey Wadsworth and Erin P. Hoeflinger were absent.

#### Mr. Shumate:

Good Morning, I would like to convene the meeting of the Board of Trustees and ask the secretary to please note the attendance.

#### Dr. Thompson:

A quorum is present, Mr. Chairman.

#### Mr. Shumate:

Thank you. So that we're able to conduct the business of this meeting in an orderly fashion, I would ask that any sound on cell phones or other devices be turned off at this time, and I would ask that all members of the audience observe rules of decorum proper to the conducting of the business at hand.

Before we begin, I would like to take a moment to acknowledge and thank our three trustees whose terms will be ending after this meeting: Janet Reid, Jerry Jurgensen and Lydia Lancaster. I want to thank you so much for your dedication and your thoughtful service as members of this board. When your terms expire next month, each of you will leave behind a wonderful legacy of advancing Ohio State's strategic vision and strengthening the Buckeye family. We certainly appreciate all that the three of you have done. Let's hear a round of applause for Janet, Jerry and Lydia.

The first order of business on our agenda is the approval of the minutes from the board's February meeting, which were distributed to all trustees. If there are no additions or corrections, the minutes are approved as distributed.

As many of you will recall, at our February meeting we focused on the university's research enterprise, which is a key aspect of our new strategic plan. In that same vein, this week we have been hearing about how Ohio State is advancing the Teaching & Learning pillar of our plan. Our committees have heard from students in the College of Medicine who are using their medical education to serve local communities. The provost shared an update on the University Institute for Teaching and Learning, as well as some exemplary teaching practices that are being used to enrich the learning environment for our Buckeyes. And the Advancement team gave us a primer on how they support teaching and learning through gifts and awards, like the Distinguished Alumni Teaching Award. Students are at the heart of our land-grant mission, and their connection with our faculty is what makes Ohio State truly great. We should all be proud of this university's commitment to bolstering the connection to improve student outcomes.

#### Mr. Fischer:

Mr. Chairman, I've been asked by a few students to give them a moment to interrupt our board meeting if I might, and I know this is unusual.

#### April 6, 2018, Board of Trustees meeting

[Members of the SPHINX Senior Class Honorary interrupt the meeting to honor Athletic Director Gene Smith, who is in the audience.]

#### Mr. Fischer:

Excuse me. Mr. Chairman.

#### Mr. Shumate:

No problem, it's worth the interruption. Gene, congratulations.

We have with us today two of the most outstanding students Ohio State has to offer. I imagine they each have their own inspiring stories to tell us about their learning experiences here at our great university. Mr. Moseley, would you please introduce our Student Recognition Award recipients?

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#### STUDENT RECOGNITION AWARDS

#### Mr. Moseley:

Thank you, Chairman Shumate. I would like to call Calista Lyon and Marla Goins up to the presenter's table.

Marla Goins is a third-year PhD candidate in the Department of Teaching & Learning. She earned her M.A. in Comparative African Diaspora Studies from Ohio State, and her B.A. in English and Spanish from Johnson C. Smith University in Charlotte, North Carolina.

Marla's research centers on Afro-Latina women's political movements, the education of afro-descendants, and developing equitable curricular and pedagogical approaches in teacher education. In her teaching, Marla strives to construct a polycentric learning environment that centers on her students' voices. She believes that by doing so, she models the values that critical pedagogy stands for.

Marla also aims to foster individual relationships with her students in order to learn how we can better engage them and encourage their development of critical perspectives on education and society. Furthermore, building individual relationships allows her to support her students beyond her courses, especially those who come from historically marginalized communities.

In other acts of service, Marla serves as a member of the Department of Teaching & Learning's Graduate Student Council; is the communication specialist for the Paulo Freire Critical Pedagogy Special Interest Group for the American Educational Research Association; and is a student organizer for the Free Minds, Free People Conference.

Let's give it up for Marla.

Marla, would you like to say a few words?

#### Ms. Goins:

Thank you so much for that introduction. This means so much to me, because sometimes it can feel like critical work is done in sort of pockets within an institution, but sometimes it may not be taken up on an institutional level. But being recognized on this

institutional level makes me feel like this work is actually being upheld by the university at large. That's so important to me because, as an African-American black woman who is in academia, something that I strive to do is to make our institution — at the departmental level and at the university level — more equitable to students who come from marginalized communities. I'm very happy and proud to see that this is also being done by people at different levels at our university. So thank you so much, I'm deeply appreciative.

#### Mr. Moseley:

Thank you.

Calista Lyon grew up chasing after dogs and cattle on her parent's beef property at the foothills of the Great Dividing Range in Australia. From there, she earned her B.A. in studio art from California State University in Los Angeles, and is currently an M.F.A. candidate here at Ohio State, where she has served as a graduate administrative associate in the studio of our renowned faculty member, Ann Hamilton.

Calista's research lives at the intersection of human and natural systems, prompting questions around human "response-ability" and care in a time of climate breakdown. Her artwork in photography, video and social practices focuses on exploring the social and environmental connections among agricultural communities — socially and ecologically, historically and in our own times.

For example, her years-long collaborative project with amateur Australian botanists Philip and Peter Branwhite is — in equal parts — a scientific recording of the ecologies of rare and endangered orchid species, and a social outreach project among a relatively isolated, yet tightly knit community of local farmers. Calista's artwork exemplifies the kind of creative, interdisciplinary inquiry that embodies the core values of our own land-grant university mission.

Let's give it up for Calista.

Calista, would you like to say a few words?

#### Ms. Lyon:

Thank you so much for this recognition — it's deeply appreciated. We had a visitor yesterday, Carrie Mae Weems, and she stated last night, "Art has saved my life; literature has saved my life." This institution has allowed me to be surrounded by incredible mentors. I would like to thank Michael Mercil and Ann Hamilton for their continued guidance and example. This institution has also created a space for me to take back my life. I will be forever thankful for that gift. Thank you.

#### Mr. Moseley:

I believe we can have Chairman Shumate and President Drake, as well as your guests, and we'll all get a picture.

#### Mr. Shumate:

Let's have another round of applause for our outstanding students. Congratulations.

I will now call on Ms. Julie Carpenter-Hubin for the next item on the agenda, the University Innovation Alliance.

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#### UNIVERSITY INNOVATION ALLIANCE

#### Ms. Carpenter-Hubin:

Thank you. I have to say the timing for this could not be better because the Ohio State UIA team just returned last night from our first-ever University Innovation Alliance National Summit. We had 62 additional colleges and universities attend and 39 higher ed nonprofit associations. We had our funders there for almost a week of talking about how we can collaborate, how other schools can pick up and do work like the Innovation Alliance, and I want to tell you a little bit about some of the folks who were there because their passion for this topic is absolutely infectious. So most of the presidents who lead University Innovation Alliance universities were first-generation, low-income or underrepresented minority students themselves. The leader of the University Innovation Alliance, Bridget Burns, was born and raised in rural Montana. Her parents didn't go to college. She started at community college, and just last year she became Dr. Bridget Burns. One of our University Innovation Alliance fellows talked about his experience growing up homeless. When he went off to college he lived in a dorm, but during the breaks, he went to join his family in their single motel room. So you hear these stories and you get an idea of what motivates folks to care so much about the work of the alliance. The summit was really terrific, but that's not what the alliance is about. We are 11 large public universities that are collaborating and sharing ideas so that we can all do a better job supporting our schools.

One of the first innovations we adopted was from Arizona State University, and that was to create a fellows program. One of the things we do in higher ed is we take on more projects, all the time, and we take on more projects because there are students who need those projects and programs to support them. Often there is no additional funding, but it's important, so we do it. The fellows program provides funding through our funders for an early career, higher ed professional to support the work of the alliance. I don't know whether it was accidental or brilliant, but Ohio State hired Derrick Tillman-Kelly, who has been our fellow since the inception of the program. He is such a rising star that the UIA has stolen him away from us to be the UIA's own director of the fellows program.

The other innovation that's really important is we have a team of people here at Ohio State that work on this project. There are folks from Undergraduate Education, I'm from Institutional Research & Planning, we have people from Student Life, from the Institute for Teaching & Learning, and what's interesting to me is we're all coming together to work on student success, and some of these people I have never worked with before. That might not be surprising to you, except that I've been here for 36 years, and I thought I had worked with almost everyone. So this outside organization is bringing together people in a way that we hadn't worked together here on our own campus.

So let me tell you a little bit about what we're doing in this work. One of our first projects was proactive advising. We adopted a system to support academic advisors across campus to provide them with up-to-the minute information and data about the students they're advising to help them share information through a notes system. So that was really the first project we adopted from Georgia State and scaled that out across the alliance schools. We are participating in a project called Monitoring Academic Advising to Promote Student Success, or the MAAPS project. That is a federally funded project that takes a control group and an experiment group, provides intensive academic advising to the experiment group, gives the same advising that we always do to the control group, and we're going to track that over four years to see if this really proactive intensive advising has an impact on our students. We've seen the first-year results at Georgia State and it did have a statistically significant difference. The students who received the intensive advising had higher GPAs and completed more credit hours. We

did not see that kind of outcome at any of the other schools, but we did see students reporting better and more interactions with their advisors and a higher understanding of how the university works. Our hypothesis is that we provide really intensive academic advising in our first-year for students here anyways, so really intensive advising might not make a huge difference for a student, but we think the sophomore year is where we might start to see more of those differences. Hopefully I'll be able to let you know next year that we've crushed it and we're doing really well.

Our third-year project was also inspired by Georgia State — they're very inspirational. They're an open admissions institution, and they have done so much for their students. They have a 58 percent graduation rate — which is not what Ohio State has, we're much higher than that — but they're open admissions school, so they are doing a lot of really good work there. One of the things they've been doing is providing completion grants to students who are in their senior year and for one reason or another haven't completed their registration for that last term or the last two terms. They reach out to find out why that is, and sometimes it's because they had a parking ticket, the fines piled up and they just don't have the \$200 to register for school, and that is going to keep them from graduating. Completion grants make it possible. We reach out, pay that off for the student and we make it possible for them to go ahead and graduate.

(See Appendix XLIV for background information, page 832)

#### Dr. Drake:

About the completion grants — can you give us some statistics on those? How many were there a few years ago? And how many have we done this year?

#### Ms. Carpenter-Hubin:

I anticipated that question, so I have it here. In spring of 2017, we made grants to 68 students at just under \$40,000 — about \$500 to \$600 on average for those grants. In autumn of 2017, it was 74 students. That's a total of 142 grants, and that's 131 unique students who would not have graduated. They would have come so close and had to drop out, but these grants made that difference in their lives.

The next set of practices that we'll be adopting is our College to Career program. We'll start off by mapping the current practices for career advising and sharing those practices with the other Innovation Alliance schools, looking to see what other people are doing that might inspire us here as well. And then we will be engaging with national employers to help better understand, for example, what competencies are most sought after by those national employers and how our students might better communicate the skills they have and how those match up with what employers are looking for.

So that's the work of the alliance. It has been such a privilege to be a part of it. One of my partners on the UIA team, David Graham, is going to speak here in a minute, but let me just stop there and see if you have any questions.

#### Mr. Shumate:

Questions from any of the trustees?

#### Dr. Drake:

I have a question about the proactive advising. At the beginning of this program, Georgia State would have had a graduation rate in the high thirties, I believe, so they have done dramatically better. We are in the middle eighties for our graduation rate, so it's a little

harder to top that off. But can you tell us about the advising program at our regional campuses, where it's more open-admission and the graduation and continuation rates are lower? I would love to hear about that.

#### Ms. Carpenter-Hubin:

We are not seeing a different effect there yet, but again, it's just the sophomore year. One of the interesting things I think is unique to Ohio State in this program is that we are using the same MAAPS advisors for the Columbus campus and the regional campuses. So they're working a lot from Columbus, but they're going out and spending time at the regional campuses as well. So when regional campus students who are in the program transfer to the Columbus campus, they will continue with the same advisor. That's something new we've not done before, so that will be another opportunity to see what the impact might be.

Thank you.

#### Mr. Shumate:

Other questions?

We certainly thank you for your leadership and appreciate all the good work you're doing to add to our emphasis on teaching and learning. Thank you very much.

At this time, I'd like to call upon Dr. David Graham. Would you come forward and tell us about the Degree Completion Program in athletics?

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#### **DEGREE COMPLETION PROGRAM**

#### Dr. Graham:

It's a privilege to be here with you this morning, but I want to digress for a second and talk about Gene Smith. I have been working with Gene Smith for the last 12 years in this role and when you talk about leadership and the shadow that leaders cast, it makes my work so much easier because Gene Smith is committed to making sure our student-athletes are integrated into the university. The work that I do on behalf of student-athletes, that's what it is — to make sure they're integrated into the university fabric.

In 2005, the Student-Athlete Support Services Office, or SASSO, was transitioned to the Office of the Provost, and through that transition, our role on campus became more legitimate, I would say, being connected with the university academic community via the Office of Academic Affairs. We became a critical player in the academic industry on campus. Before that time it was somewhat of a mystery what SASSO did, but being a part of the provost's office, we were able to tap into the resources and really work closely with the colleges and deans in that regard.

As a former college student-athlete, I understand what it means to be fully integrated into the academic community. My professional commitment and my personal goal is to make sure that our student-athletes are connected to the university. So what do we do in SASSO? We walk with our student-athletes through their academic journey here at The Ohio State University. That journey starts with the recruitment process, and it ends, hopefully, with a career. So starting with the recruitment process, our coaches are very active with recruiting student-athletes, and they go out and they work hard to find the student-athletes that are viable candidates for admissions. Once they commit to us, then

I work with the student-athlete and their family to make sure they understand the admissions process and get enrolled. Once they're enrolled, my office works with the student's college advisors and makes sure they have the course schedule to pursue the academic major of their choice and a pathway to achieving that. Once we go from there, we start working with instructional support services, where we provide tutoring, learning specialists, academic coaches — a whole host of resources that make sure we are working with our students. From there we provide programs to enhance their life skills and their personal growth. For example, one of the programs we offer is Scarlet and Grit where we talk about resilience. We work with the Office of Student Life and their counselors to make sure we're teaching our students skills that can help them become more resilient. And from there, we have a four-year career readiness program.

Gene Smith mandates these programs so that we are intentional in making sure our student-athletes get the types of services they need. When they are at the end of their journey, we start talking about graduation planning. We look at whether or not they're going to graduate or professional school or, in some cases, if they are going to go pro. In that part of the degree completion program, we work with them to make sure they have a pathway to completing their degree. We have a career manager who works with our students along that four-year comprehensive plan. But at the end, we start working with our corporate sponsors, our development office and our alumni groups, like the Varsity O, to find connections and to make sure that if they're still looking for a job at that point, they have the opportunity to make connections.

So how are we doing? Just last year, 86 percent of our students had a 3.0 or better, we had 236 graduates, and 31 of our student-athletes participated in the international study abroad programs. Our top five majors were sports industry, communication, finance, biology and psychology. Last semester, we had probably one of our best semesters ever — 34 out of 36 teams received a 3.0 or better and 49 students graduated. The biggest thing I like to point out here is that our student-athletes are getting engaged around campus. They're not just staying on the athletic campus and not being engaged.

On this graph, this is the GPA from term to term, and you will see that our studentathletes are competing in the classroom just like the student body. Last semester our students finished up again at a 3.2, where the student body. I think, had around a 3.185. So even from semester to semester, our students are really working hard to be competitive in the classroom. That red line is a group we track; we call it a success team. Some of our student-athletes need a little extra attention. They might be admitted through the faculty admissions process, or they're coming in and they're an international student with English as their second language, or they have an identified learning disability. We work closely with them, as Julie [Carpenter-Hubin] was talking about, through intense advising. That group receives a lot of intense support from us, and as you can see, they're performing just as well. Last semester was their best semester ever; they had over a 3.0 GPA. In terms of that group, we're talking about 147 students that we have in that population. Here's another graph I thought would be interesting for you to look at. Back in 2005, our student-athletes were graduating at a higher rate than our student body. The national average then was 60 percent. Our student-athletes were at 65 percent and our student body was at 63 percent. But over the last 13 years, you can see that our student body has really performed well. Currently our student-athletes kept that same parallel trajectory around 73 percent, while the national average is around 66 percent. So both our student body and our student-athletes are performing well.

We're fortunate to have students that compete at the highest level in a particular sport and from year to year, we have students that will leave early to pursue a professional career without completing their degree. In 1994, the athletic department decided to create a program that would ensure those who had a desire to come back and complete their degree would get a chance to come back. So over the last 28 years, we've had 187

people graduate in that program. When you go back to the previous graph, where I talked about the graduation trend lines, those students will never be captured in that graph because they usually come back after the six-year window is up. So we have to do a good job of telling our story, but it's the right thing to do on behalf of our students.

Now, I would like to take a moment to introduce a staff member that is responsible for that program. He has been with the university over 35 years. John Macko, if you could stand up? John is an in-house historian, so he knows almost every student-athlete that has come back through this degree completion program. We're so fortunate to have him, and we're also fortunate to have the first graduate of the degree completion program with us today. Some people call him Special K. Are you familiar with Special K? I would like Special K to tell you all about what the degree completion program meant to him.

(See Appendix XLV for background information, page 834)

#### Mr. Kellogg:

Thank you, Dr. Graham. Let me say, it's exciting and does my heart great good to see the evolution of SASSO and what it is providing our student-athletes from an academic and integration standpoint. Obviously, when I was here in the late 70s and early 80s, it hadn't quite grown to what it is now, but there was always that opportunity. I left Ohio State after my junior year, in 1982, to pursue my dream of being an NBA player. I was 21 years old at the time. A year later, I was married and starting a family in Indianapolis, but I never lost sight of the fact that I wanted to have a degree from The Ohio State University. Through my academic advisor, I was able to chart a course toward finishing my degree in marketing. I tell everybody I was on the 17-year plan, because I enrolled in the fall of 1979 and I finally got my degree in December of 1996. I'm proud to be, not a double degree holder, but I am a double alum. I'm an alum of the degree completion program and I'm an alum of The Ohio State University. I benefitted from that resource being available and the connection I had to my academic advisors to make sure the classes I was taking, over at IUPUI while I was living there would transfer back to Ohio State effectively. Ultimately, the program is set up to where if you want your degree from here, you have to finish and come back on campus to take your remaining classes. I was able to do that and it's wonderful to see the number of other former student-athletes who have done it. I'd like to see that number continue to grow. I've got some peers who are still out there who I am trying to encourage. It's a wonderful resource for our studentathletes, and I commend Dr. Graham and Gene Smith's leadership and the other staff members who are committed to investing in the holistic development of our studentathletes. Obviously, there is the responsibility each individual has to take to get his or her degree, but the resources are here in a great way. So, thank you, and I'm glad you had a chance to share what all is going on at SASSO, because sometimes, as visible as the athletic department is, in many ways some of the rich things that are taking place for the development of our student-athletes sometimes don't get the magnifying glass they deserve. So, thank you, Dr. Graham.

#### Mr. Shumate:

At each of the trustees' places, we have a little packet that I would like to encourage you to open at this time.

[The trustees open wrapped packages that contain a Special K t-shirt from Homage.]

Congratulations, Clark, on being our first graduate. Dr. Graham, do you have any concluding remarks?

#### Dr. Graham:

I'd like to say that Special K's success would not have been captured in our traditional numbers, so I hope we can continue to have a forum where we can come and talk to each other about these types of success stories that are going on in the athletic department and across campus. Even some of the things that Julie [Carpenter-Hubin] was speaking about may not be captured in the traditional reporting metrics. So we need to be able to have an outlet where we can share those successes with you, and when the media has questions for you, you can feel comfortable about the work that is going on on behalf of this university and on behalf of our students.

#### Mr. Shumate:

Any questions?

#### Mr. Gasser:

Dr. Graham, the program seems to be a very holistic program that you spelled out. Do you know, or can you tell us, how this program is different here than at other universities? And what makes it successful in your mind?

#### Dr. Graham:

I like to think the people make it successful. When you look around the country at schools that have this level of resources, they are attempting to do the same thing. Some of you may remember Bill Myles, who was the innovator behind this. He and the athletic department said they wanted to make sure Clark [Kellogg] got his degree, as Bill Myles would tell the story. When you have a great idea and you can resource that idea, and then you have people in place to implement that idea, I think that's one of the differences. It was created for the right reason — to serve the student — and we continue to do so. John Macko is continually looking at the rosters and talking to coaches to figure out if there are potential alums out there who left early. So there's a recruitment process that John Macko is constantly engaging the coaches in to try and continue to let them know that there are resources available.

#### Mr. Kellogg:

I would add to that. The full integration with the coaching staffs, along with academia, that integration and access and awareness of the resources is a big reason why SASSO has taken a step above most. It starts with people, obviously, but a commitment to have coaches be aware and engaged in the total development of our student-athletes. Because all of our athletes spend tons of time with their respective coaches, and if coaches use a portion of that time for total development and academics, then it becomes a part of the process. I think that's one of the distinguishing things that's happening here — that full integration.

#### Mr. Gasser:

How about peer pressure? You mentioned that you are trying to get other people to participate.

#### Mr. Kellogg:

Yeah and actually it works. You can have positive and negative peer pressure. So positive peer pressure is when folks see others that have done this. Actually, part of the campaign on the website is "I did it, so can you." Chris Jent, Scoonie Penn, Greg Oden

and Katie Smith are prominent names many of you might know, but there are countless others who have done this. Modeling is important, so the fact that there are a lot of former athletes who have come back and graduated begins to influence peers to have the confidence and to know the resource is here and they, too, can take advantage of it.

#### Mr. Shumate:

Other questions? Dr. Graham, thank you for your leadership. Now we turn to our president. Dr. Drake, will you please present your report?

#### PRESIDENT'S REPORT

#### Dr. Drake:

Thank you very much, Alex, and good morning to everyone. Before I begin, I'd like to echo comments that Alex made thanking our trustees for their service to our university. It has been a great privilege to get to know and work with Janet, Jerry and Lydia over these past four years. Just a reminder — one year ago, at this meeting, we were honored with a national recognition for board leadership, the Nason Award. This is the standard for excellence set by this group, and it's quite high, It's like we have the national championship team. So we appreciate that very much and we see the great work that this team does. We're sad to see our colleagues moving on. It has been a great group of people working together. Actually, Dr. Reid and I will be at the 2018 Brain Health and Performance Summit this afternoon, hosted by the Wexner Medical Center's Neurological Institute and the Ross Center for Brain Health and Performance. So, although your board meeting will finish today, you'll have about a three-hour break and then we're back at work again. Finally, I want to pause and acknowledge Alex Shumate, who is rotating out of his position as board chair. We are very fortunate that he will remain with us as a trustee for a few more years. Alex is one of the first people that I met at Ohio State. He and Janet were on the search committee and they were among the first people I met at The Ohio State University, and it has been great to work with them for all of these years. I know all of you will agree with me in saying he has been an outstanding chair of our board. Let's have a round of applause for Alex.

One of the major initiatives this past year has been the creation of the Time and Change Strategic Plan, and our aspiration to be a leading national flagship public research university, so I will provide a few updates. This fall, Ohio State will launch the largest learning technology deployment in university history. As part of the Digital Flagship Initiative, a first-of-its-kind collaboration with Apple, new first-year Buckeyes on all of our campuses will receive an iPad Pro with tools to support teaching and learning, and to support their lives. The initiative also includes opportunities for students to learn coding skills that enhance career readiness in the app economy, and a design laboratory to serve our community and support economic development opportunities throughout the city and state. You heard just a bit ago about the University Institute for Teaching & Learning. It's another important way we have committed to leading on a national level. The institute was established to create national best practices in the classroom, advancing how we teach and how we do our best to forge more effective, efficient and impactful ways to pursue paths to graduation. The University Institute for Teaching & Learning is the collaborative that Julie [Carpenter-Hubin] mentioned that pulls people together from a variety of segments of the campus to be able to support our teaching and learning. Over the past two years, more than 2,000 Ohio State faculty and graduate students have engaged in opportunities sponsored by the institute and its university partners.

We continue to make progress. This past fall, Ohio State was recognized for its "unusually strong commitment to undergraduate teaching," ranking eighth among public universities and 17th overall. Our faculty's focus on teaching, research and service is vital to the many ways we work to improve the world around us. Earlier this week, we recognized 145 Ohio State faculty who received citations of excellence or were elected to national or international learned societies this past academic year. These include nine recipients of the National Science Foundation's early career award, four fellows of the American Association for the Advancement of Science, three newly elected members of the American Academy of Arts and Sciences, and the first female winner in the 53-year history of the Henry Storch Award from the American Chemical Society, Professor Umit Ozkan. That deserves a round of applause.

We recently highlighted some of our most groundbreaking work at the State of Research Address here at the university, including Ohio State's Innovator of the Year Awards. This year's faculty and student winners were honored for significant advancements in areas ranging from the design of drug delivery systems to treat genetic disorders, infectious diseases and cancers, to the development of a mobile app to support and inform new and expectant parents. We see breakthroughs in health care solutions each day at our Wexner Medical Center, which is on the leading edge of patient care and clinical excellence. Five programs in our medical enterprise — emergency medicine, physiology, otolaryngology, surgery and neurosciences — ranked in the nation's top 20 for funding from the National Institutes of Health, up from three programs a year ago, and overall, our NIH funding was up 9.8 percent last year with a 20 percent increase at our medical enterprise. Our most recent figures show that our number of NIH awards are up 10 percent this year, year-to-date, over last year's great numbers. We were very pleased just a few weeks ago to host NIH Director Francis Collins for a roundtable about the university's efforts to combat the opioid addiction crisis. Dr. Collins' visit was part of a roll out of an updated plan by the White House to combat this epidemic. During the director's visit, we announced Ohio State's Opioid Innovation Fund, which includes more than \$1 million in grants designated and designed to inspire new, multidisciplinary partnerships with the goal of helping to address and alleviate the burden in our state. This initiative speaks to our university-wide dedication to uplifting the communities we serve, and we are pleased that Director Collins had very positive things to say about Ohio State's efforts in this area.

The generosity of our alumni and friends continues to elevate the university and the ways we connect with families and patients. The Wexner Medical Center will establish the nation's first center dedicated to treating those with heart failure and arrhythmia with gifts totaling \$18 million from Bob and Corrine Frick. Their donation will establish the Bob and Corrine Frick Center for Heart Failure and Arrhythmia at our Ross Heart Hospital, already considered among the nation's best. On Wednesday, at the medical center board meeting, we were honored to host Bob and Corrine and their family — and it was wonderful to hear about their incredible commitment to saving lives and their commitment to helping people far beyond our vision. It's a testament to the inspiration and values we see throughout Buckeye Nation each and every day.

Another example of this is BuckeyeThon, the university's largest student-run philanthropic organization. The group raised \$1.6 million this year to support pediatric cancer research and care — a new record. As always, it culminated with a 24-hour dance marathon at the Ohio Union, bringing together thousands of students with young patients and their families. It's one of my favorite events of the year and I was delighted to be there once again to help celebrate. If you look at the photos of BuckeyeThon, there is a big reveal where the students hold up the final fundraising numbers. It's great if you're on stage with them, because as they hold up those numbers, many of them are crying. And when they put the numbers down, they're all crying. It's a wonderful moment to see and to think about the great things they're doing for those families who are in the audience.

Just last week, I was pleased we were able to welcome Paul Simon to come and talk with our students. How many people here know the name Paul Simon? It's a fun question. With our students, if you say how many of you know the name Paul Simon, a third or a quarter of them will know Paul Simon. If you say, how many of you know Simon and Garfunkel, well then the number doubles and they say, "Oh that Paul Simon." If you say, how many know the song "You can Call Me Al" or "Sound of Silence," then the number gets up to 80 percent or 90 percent, and then if you mention a few lyrics like "Hello darkness, my old friend," then they'll all know. It's a fascinating way that his art has permeated the culture, but you have to peel back layers to get to know exactly who that person was, so that was a fun process to go through.

I teach a class on the civil rights movement and the Supreme Court, and during that class, we focus on the music of the 1960s. He was a guest speaker for the course, and afterward he joined students, faculty and staff from our School of Music to share more about his experiences. We had a nice conversation and then he had agreed to play a couple of songs. It was a wonderful teaching and learning experience. He's a wonderful singer and songwriter, really a gifted person, and he has had a 60-year career of sharing that gift. He was going to play one song and I asked him if he might play another one. And the song I asked him to play was one called "American Tune," which I would ask you all to go on YouTube and listen to if you don't know it. It's a song he wrote about 40 years ago, at a time when he was having some personal turmoil and the country was in political turmoil. But as a song, or a piece of art with good bones, it works well in a variety of circumstances now, a generation later. It reminds me of the fact that we all have wonderful things to celebrate throughout our lives, we're very blessed, but we also have things that are difficult that happen in our lives. In our university community, we have wonderful things to celebrate, but all too frequently we have difficult things that happen in our community and we know that life does not always work the way we want. This song reflects on that, and how we press on and go forward. That song is similar in many ways to "Carmen Ohio." So when he finished singing to us, I asked the audience to sing "Carmen Ohio" to him, so he could get a feeling for what our community is like. Knowing that "Carmen Ohio" was written a little over a century ago by one of our football players on the way home after an 86-0 loss to that team up north, it speaks to the importance of coming together when things are not going so well. When he played "American Tune," some of the people in the audience and on stage cried, because of the sensitivity of the song. When we sang "Carmen Ohio" to him, then many other people in the audience cried, and it was wonderful to have that emotional connection of our community and to be able to share that with somebody who, through music, communicates with so many people.

Next month marks the end of the semester and spring commencement is just a few weeks from now. We're pleased to welcome and announce today that Dr. Sue Desmond-Hellmann, who is the CEO of the Bill & Melinda Gates Foundation, will deliver our commencement address. We anticipate more than 11,700 degrees will be awarded, consistent with last year's all time record. That's terrific, and we're very happy to have Dr. Desmond-Hellmann come. She'll be spending some more time on campus in addition to her speaking role on Sunday. She'll be meeting with people and learning more about us, and we're very pleased to welcome her, she's a dear friend. I started my time at Ohio State with many of these graduating students. So I tell them I'm a senior, but I'm going to be a little more like Clark [Kellogg], I think, and have a more scenic route through to the end. But it will be wonderful to celebrate graduation with them.

The demand to become a Buckeye has never been greater. We once again have a record number of applications for the upcoming year. We are at 52,525 and counting, and we're actually over 55,000 when we include applications to the regional campuses, which is great. We will meet a number of our new Buckeyes and see the breadth of Ohio State's impact across the state during this summer's state tours. Those are being planned right now, and I'm looking forward to that. Overall, it has been another quite

outstanding and wonderful academic year. It was full of many firsts that build on our nearly 150-year history of excellence. It has been wonderful working with our board, our faculty, our staff and all of our students, including our student leaders in Undergraduate Student Government, the Council of Graduate Students and the Inter-Professional Council. I want to express my gratitude for all of your many contributions. As I said earlier, Ohio State has unprecedented momentum. We have an extraordinary opportunity to build on our strengths and take the next steps in what it means to be a flagship public research university in the 21st century. We will need the talents and contributions of all of Buckeye Nation and I look forward to continuing our work together.

Thank you.

#### Mr. Shumate:

Thank you, President Drake. We will now move to our committee reports, starting with the Wexner Medical Center Board. Mrs. Wexner?

#### COMMITTEE REPORTS

Mrs. Wexner:

Thank you, Mr. Chairman. The Wexner Medical Center Board met Wednesday, and we had a very full agenda. In keeping with our Teaching & Learning theme. Dr. Craig Kent and Dr. Dan Clinchot shared impressive statistics related to our College of Medicine's unique service-leaning curriculum. Collectively, our medical students provide an astounding 20,000 hours of community service each year as part of a curriculum that requires them to develop and implement health initiatives to assist underserved populations in Ohio. I won't say that too quickly, 20,000 hours of dedicated service, obviously something they're proud of and we are incredibly proud of. The College of Medicine has become a national leader in service learning, requiring its first- and second-year medical students to devote 30 hours a year to their community service projects, which touch more than 9,000 individual lives. We heard from four medical students, Kyle Smith, Grace Lartey, Jaren Hansen and Lauren Chen, who all said how proud they are to be part of a medical school that encourages them to pursue their passion for helping people in and beyond the hospital. This is one of the unique characteristics of The Ohio State University, where service to our community and service to our public is as important as the academic rigor.

Ms. Patty Hill-Callahan told us about WexMed Live, which is a popular series of Ted Talk-style discussions led by physicians and researchers at the medical center. Following her report, as Dr. Drake has already recognized, we learned of this incredible and transformational gift of two of the medical center's biggest supporters, Bob and Corrine Frick, to establish the Center for Heart Failure and Arrhythmia. This is an \$18 million gift and, again, I think tremendous testament to the power of the medical center to improve and change lives, and to the commitment of our donors. It is an extraordinary gift — one that we are so grateful for and for how inspiring it is, not only to our physicians but to the patients and the lives that will be touched by it.

Dr. William Farrar shared an update on the James, noting that our patient satisfaction scores are very high and that last month the American Nurses Credentialing Center awarded the hospital Magnet recognition, which is the most prestigious distinction a health care organization can receive for its nursing. Only 8 percent of all hospitals receive this recognition, so we should take great pride in the performance of our nursing staff. As many of us understand, nursing care can make all the difference in the

experience of our patients, and to be recognized for outstanding nursing care is just another testament to the amazing work that the medical center is doing.

Dr. Raphael Pollock then gave an update on the OSU Comprehensive Cancer Center, during which he discussed the center's strategic plan work, as well as its faculty recruitment and retention efforts. We are very proud of Dr. Pollock's transition, and how well he's doing at the Comprehensive Cancer Center. I think all of us were very encouraged by his report and certainly by his leadership.

Dean Kent followed with a College of Medicine update. He shared a list of clinical programs of distinction and highlighted our robotics surgery program, which has flourished under the leadership of Dr. Jeff Fowler. Our program is currently performing 1,900 robotics surgeries per year, which puts us in the top five of all medical centers in the nation.

David McQuaid shared a brief update on our health system operations and asked Dr. Scott Holliday to tell us how new residents from across the country are matched to their fellowship training programs. We had set a goal of at least 27 percent of our new residents and fellows coming from either a top 30 *U.S. News and World Report* research institute or an AOA national honor society. I'm proud to report that we exceeded that goal, with 29.3 percent of our new residents and fellows meeting those metrics, again, speaking to the quality of our students at the medical center.

Mark Larmore presented the university health system financial summary. Admissions and surgeries continue to track ahead of budget, with almost 30,000 surgeries through the first eight months of the fiscal year. About 60 percent of those surgeries are outpatient. Our operating revenue is running 2.8 percent above budget and 10 percent above prior year. We've seen a great growth in cash, an increase of about \$225 million year over year. We've paid down \$39 million in debt and our net assists have grown about \$185 million, so overall from a financial perspective we're continuing to see the medical center do incredibly well.

Jay Kasey sought approval for the acquisition of property at the southeast corner of Hamilton Road and State Route 161 for the construction of an ambulatory care facility, and he asked for authorization to enter into professional services contracts for the design of this ambulatory facility. These items are on our consent agenda. Finally, Cheryl Krueger and Dr. Andy Thomas presented standard amendments to the bylaws and rules and regulations of the medical staffs of the University Hospitals and the James. They also presented a resolution to support the certification of our trauma programs at University Hospitals and University Hospital East by the American College of Surgeons. All resolutions were passed by the medical center board and those that require approval from the Board of Trustees, as I mentioned, are on the agenda. The committee then met in executive session and that concludes my report, Mr. Chairman.

(See Appendix XLVI for background information, page 841)

#### Mr. Shumate:

Thank you, Mrs. Wexner. Any questions or comments? Mr. Jurgensen, the Talent and Compensation Committee report.

#### Mr. Jurgensen:

Thank you, Mr. Chairman. The committee began yesterday in executive session and had a few issues it needed to get through. As a result of that, we're going to move our presentation on the HR Strategic Plan overview and the implementation of that plan to

the next board meeting in June. During public session, Susan Basso updated the committee on both of the searches for the dean and director of the Mansfield and Lima campuses. She also informed the committee about the searches for the dean of the College of Education and Human Ecology, the SVP of research and the multiple chair searches underway in the College of Medicine. Ms. Basso also reviewed with the committee the personnel actions pertaining to the reappointment of Mark Larmore as vice president and CFO of the Wexner Medical Center, as well as the contract extension for head football coach Urban Meyer. The committee approved the personnel actions with a motion to submit these for board approval, which will be on our consent agenda.

Finally, I guess I would like to say that the opportunity to work in this field of talent and comp gives me a lot of pride, and this is an area of the university that I'd say we were not exactly buttoned up in to say the least. I think every chairman, back as far as I can remember, has expressed concerns about the practices and protocols with respect to contracts and how the whole thing operated. So under the leadership of AJ Douglas, who was our CHRO at the time, we undertook a project to revamp everything that happens at Ohio State with respect to HR administration. We established a compensation philosophy; we have a transactional authority document that explains and unifies what we do and how we do it across the entire university. I must say, in my personal corporate experience, I've never seen such a mess in my life as was the case here. But I can say today, and since I'm leaving, that this is clearly an example of leaving something a lot better than you found it. I really want to take my hat off to two people in particular — Joann McGoldrick and Kim Shumate — because without the two of them this would not have happened. We totally underpaid these two individuals for the last five years, based on the volume of work and time they put in. I wish I could put up on our screen the flow chart of this project in the beginning, and how many aspects there were to it — the time lines, all the sub work streams and everything. It's just an absolutely A+ job that they did, and a lot others, too, but I want to mention those two.

Now having said all that, this university is extremely fortunate to have Susan Basso as our CHRO, because the next iteration of this will be the implementation of Workday. For any of you who have Workday experience or Workday in your corporate settings, or anywhere else, this is an extremely complicated piece of technology. It is way more than software; this will fundamentally revamp how jobs are done. As a result of having Susan, since this is not her first rodeo with respect to Workday — I think it's her third at least — she will save us millions of dollars in outside consultants we would have had to hire. And everyone who has ever attempted Workday has needed to hire these people. We still will, too, but it's great when you have a client that knows as much about it as the consultants do. I also want to say that this work has continued through the medical center as well as the university. And actually, if I were to rank the challenges in the space of compensation administration and practice, I'd actually say the medical center was more screwed up, by far, than the university. That is no longer the case. Dr. Kent has done a marvelous job and continues to do a marvelous job in concert with Susan to revamp those practices and procedures as well.

So having said all that, I will bow out. It's been fun.

#### Mr. Shumate:

Thank you for that report. Any questions? A few new legal, technical terms in that report. Mr. VanderMolen can you top that with Advancement?

#### Mr. VanderMolen:

Surely, you're not challenging me on that. Thank you, Mr. Chairman, the Advancement Committee met yesterday and I'm pleased to share our progress. In keeping with our theme this week, we discussed how Advancement's recognition of excellence among

our faculty shapes teaching and learning across campus. Susan Hadley, a professor in our Department of Dance and recipient of numerous teaching awards, including the 2014 Ratner Award for Distinguished Teaching, shared her perspective on how Advancement impacts her work and her students' experiences. The support she has received as a teacher empowers her to expose her students to unmatched opportunities to pursue their dreams. We then turned our attention to the OSU Alumni Association's strategic plan and Kristin Watt walked us though the progress that has been made since the plan's adoption last May. Though it is focused on alumni, the association's plan intentionally aligns with the university's strategic plan, and its mission and vision statements were thoughtfully written in order to capture the essence of Ohio State and what it means to be an alumnus. Adrienne Nazon gave us an update on our brand and marketing efforts, sharing how we are implementing a modern marketing approach. Our audiences are dynamic and as they evolve, we must follow suit and be responsive to their interests. The team is exploring the utilization of different platforms in monitoring the success of our reach.

Mr. Mike Eicher reported that we are on track for a record year in multiple areas including principle, planned and corporate giving. Principle giving success is largely attributed to creative, bold and personalized engagement with donors, as well as greater collaboration among teams. Numbers are also high after the tremendous success of this year's Day of Giving, which raised \$3 million from nearly 31,000 gifts. We anticipate the tax law having a slight impact on our cash numbers in donor count, but we are still on track for a record year. Yesterday was Thank a Donor Day, and the initiative — led by the Student Philanthropy Council — brought campus wide awareness to the important role donors play in the lives of Buckeyes. It was a day of reflection and gratitude. Students, faculty and staff sent messages to those who philanthropically support Ohio State. Clara Davison, student delegate to the Foundation Board, shared an overview of Thank a Donor Day and how her engagement with university volunteers has deepened her understanding of philanthropy in her own career path. Julie Anstine presented the nominees for this year's Distinguished Service Awards — Bobby Moser, David Schuller and Iris Wolstein — and we concluded our public session with a presentation of three namings that appear on the consent agenda today, one of which is the newly announced Bob and Corrine Frick Center for Heart Failure and Arrhythmia. The committee then met in executive session, and that concludes my report, Mr. Chairman.

#### Mr. Shumate:

Thank you, Mr. VanderMolen. Any questions or comments? Mr. Smucker, the Audit and Compliance report.

#### Mr. Smucker:

Thank you, Mr. Chairman, the Audit and Compliance Committee met yesterday and had several items on the public session agenda. The first item for discussion was an overview of the university's fiscal year 2018 external audit plan by Christa Dewire of PwC. There were no major changes to the primary objectives for the audit scope of services or deliverables, compared with last year's audit plan. PwC will continue to adjust their audit plan to the university's strategic priorities, especially those that connect to our streamlining and efficiency efforts, as well as other potential revenue generation opportunities. Kevin Patton then reported on the Internal Audit Quality Assurance and Improvement program. Consistent with the industry best practices, Mr. Patton provides this annual report to the audit committee to confirm the independence of the Department of Internal Audit and their adherence to industry standards; to periodically review and refine their primary monitoring assessments; and to confirm continued alignment with the committee's expectations related to the university's internal audit function. Next, Chris Culley and Gates Garrity-Rokous gave the committee an update on the university's Compliance and Integrity program. Mr. Garrity-Rokous reported on the

university's research integrity efforts. We have expanded mandatory research integrity training to approximately 25,000 university researchers, hired additional research integrity staff and are implementing a new electronic lab notebook system. The university also intends to host a national research integrity conference this coming fall. Mr. Garrity-Rokous and Gene Smith presented on the university's institutional governance standards with respect to athletics. This Big Ten initiative began in 2013, after the Penn State affair. It required each institution to develop organizational standards that document the authority, responsibility and accountability for athletics. The standards set forth expectations for independence and separation of responsibilities between athletics staff and coaches and other departments on campus. Mr. Garrity-Rokous then provided a status report on the university's Title IX resolution agreement with the Office of Civil Rights, followed by the audit committee scorecard. There were no major issues or changes from the last report.

Finally, Provost McPheron, Mike Papadakis and Susan Basso gave a progress report on the university's enterprise project, which is included in the Workday project that Jerry referred to. As you know, we are in this substantial process transformation that will leverage Workday and other enterprise technologies to enable the university's strategic plan. Examples of the changes that Workday will help foster in support of the strategic plan include items like enhancing the undergraduate academic advising process, streamlining the recruitment and hiring process for new faculty and staff, and better supporting researchers and the grants management process. We have completed the foundational design and architect phases of the project, and are now shifting to the configuration and prototype phase. Now, just to comment further to Jerry's comment, there has been a lot of work on this project and we do expect that it will have a tremendous amount of benefit to the university over the years to come. And finally, we did have an executive session.

#### Mr. Shumate:

Thank you, Mr. Smucker. Any questions on our Audit and Compliance meeting? If not, Mr. Kellogg, the Academic Affairs and Student Life Committee report.

#### Mr. Kellogg:

Thank you, Mr. Chairman. The academic affairs committee met Thursday and discussed a variety of items. Dr. Susan Jones, a professor in the Department of Educational Studies, and Timothy Bryson, a graduate assistant in Student Life, joined Dr. Javaune Adams-Gaston to discuss Ohio State's comprehensive student experience. They highlighted the collaborative efforts of the Higher Education and Student Affairs program and the Student Personnel Assistantship program. Dr. Jones led a rich discussion about the holistic development of the student. Mr. Bryson, who I've had the pleasure of getting to know on an informal basis, spoke eloquently about his experience as a Buckeye. He reiterated how the two programs I just mentioned were both instrumental in his success, and how they have helped prepare him for his new role with the NCAA post graduation. Provost McPheron provided an update on our progress related to the Teaching and Learning pillar of the strategic plan. He noted that U.S. News and World Report ranks our online bachelor's programs as the best in the nation and our online graduate nursing program as No. 2 in the nation. We expect to be in those numbers as an institution in various areas, but this has happened in the last six years. To get to those particular rankings is an incredible achievement considering that fact.

The provost also discussed the progress of the University Institute for Teaching & Learning, as well as the Digital Flagship partnership. He asked Professor Scott DeWitt, director of the annual Digital Media and Composition Institute, to discuss some of the best practices he employs in his classroom. For years, Professor DeWitt has been bringing new technology-based practices to his students. He described how important it

is for curriculum to provide optimistic contexts for student writers to engage with audiences, and I thought it was pretty neat that Dr. DeWitt had a different definition for optimism, and I'd just like to share it with you. He said, "optimism is our ability to imagine and generate positive expectations for the future." It's not just putting a silver lining on things, it's about the expectations we create for the future, which I thought was not only good for us but maybe there's a basketball analogy in there somewhere.

Provost McPheron then presented several resolutions for action, including revisions to the Patents and Copyrights Policy, which clarify a variety of issues related to intellectual property, including the rights of faculty with respect to their scholarship, instructional works and artistic works. The royalty-sharing mechanism will ensure that intellectual property creators whose works belong to the university will get a greater share of the income they generate. Additional resolutions included amendments to the Rules of the University Faculty, including the control of dogs on campus and in various buildings; approval of faculty personnel actions; approval of degrees and certificates to be awarded at spring commencement, including the awarding of two posthumous degrees in agriculture; the approval of four honorary degrees, including Dr. Matthieu Ricard — a Buddhist monk and the French translator for His Holiness the Dalai Lama, Joan Baez, General Colin Powell and Sue Desmond-Hellmann, our commencement speaker in the spring and the CEO of the Bill and Melinda Gates Foundation; the revocation of Bill Cosby's honorary degree, which was awarded in 2001; and the establishment of two new graduate-level programs in applied neuroscience and engineering education. After approving the items for action, the committee recessed to executive session. And that concludes my report, Mr. Chairman.

#### Mr. Shumate:

Thank you, Mr. Kellogg. Any questions or comments? Thank you to all of our committee chairs for your leadership. As we know, the real work of the board occurs in our committees, and over the past several days our committees have been very active and thoughtful in their deliberations on behalf of this university. We thank all of you for that. Mr. Gasser, the Finance report?

#### Mr. Gasser:

Thank you, Mr. Chairman. The Finance Committee met yesterday and there were five items presented for discussion. Mr. Papadakis presented the university financial overview for the first eight months of fiscal year 2018, and Ms. Kris Devine presented the scorecards through January of 2018. All metrics on the consolidated financial scorecard were green, with the exception of two areas that were yellow — total expenses and the three-year term on our long-term investment pool. While consolidated revenues were \$71 million above budget, expenses were \$32 million over budget, primarily because of increased patient volume for the health system and OSUP. I would also add that the one-year return for the long-term investment pool is green, and the three-year is improving. Ms. Lynn Readey presented an update on the 12 major projects of more than \$20 million. All but two projects are labeled green for being on time and on budget. The university is closely monitoring the projects labeled yellow — the Postle Hall partial replacement and the Cannon Drive relocation — and as Alex [Fischer], I'm sure, will report the Master Planning and Facilities Committee also reviewed these projects.

Mr. Papadakis shared the annual waiver report for 2017, which showed that during the past calendar year the university waived competitive bidding 981 times. This is down 11 times from the prior year and nearly 100 fewer times than two years earlier. The total value of these contracts was \$342 million, up \$3.9 million from 2016. Mr. Papadakis shared an overview of the proposed Intellectual Property Policy, which was presented for action in the Academic Affairs and Student Life Committee.

The Finance Committee then discussed five items that are on the consent agenda. Ms. Readey presented a request for approval to enter into four professional service and construction projects, including work related to the partial replacement of Postle Hall, campus Wi-Fi improvement, a hangar at the Ohio State Airport and regional ambulatory facilities for the Wexner Medical Center. As Alex, I'm sure, will report they also reviewed these four projects, and as Ms. Wexner reported, the Wexner Medical Center also reviewed the ambulatory project. Mr. Papadakis then presented ticket prices for basketball for the upcoming year in line with the variable pricing model that the university has used in different forms since 2013. The recommendation will reduce the cost of student tickets to \$9 across the board, instead of a range of \$10 to \$13 per year. All other prices remained unchanged from the 2017- 18 season, and after the great success we had last year in basketball. I'm sure we'll have the arena full next year as we go forward. As part of the Digital Flagship Initiative, the university wants to enter into a master equipment lease with Apple to provide an iPad Pro to each incoming first-year student who starts this fall. The lease will cost about \$2.8 million per year for a total of \$11.1 million to provide the first group of incoming students with the technology needed for this major digital learning initiative. Ms. Readey then presented two fiscal year 2018 utility system capital projects, which will be funded and delivered by Ohio State Energy Partners LLC, the university's energy concessionaire. The two projects support the Postle Hall project and the future development of the health systems facility. Finally, the committee reviewed a request to purchase approximately 3.59 acres in northwest Columbus as part of the Wexner Medical Center ambulatory facility which we've already talked about.

These resolutions were passed by the Finance Committee and are included in the board's consent agenda today. The committee then met in executive session and, Mr. Chairman, that concludes my report.

#### Mr. Shumate:

Thank you, Mr. Gasser. Mr. Fischer, the Master Planning and Facilities Committee report.

#### Mr. Fischer:

Thank you, Mr. Chairman, the Master Planning and Facilities Committee met twice this week. On Wednesday, we had an informal planning session to review our master plan. I appreciate many members of the board attending that afternoon session. This is something we'll do every six months to stay connected to all the many large projects that we have going on, and we'll continue to encourage broad participation of those.

We also met in our formal setting this morning and had a series of items that we discussed, including our scorecard, which across the board looks really good. Two items are red, but they're really timing issues around capital expenditures and issues around parking that were planned for because of construction taking some parking lots out of commission for various points in time. As Mr. Gasser mentioned and Finance Committee reviewed, we also looked at the major projects update. Let me give you context. We look at, and have for the last two years, all projects over \$20 million. On our list are 12 projects valued at \$550 million. Mike [Gasser] noted, too, that our items that are in the yellow are actually being completed and headed toward green. Jim [Klingbeil], I thought you said it best — anybody in the private sector that looks at a scorecard of projects of this size and in this construction era, it would be dotted with yellow and red, undoubtedly. We all compliment our team for their amazing management and the administration for staying on top of these projects. We also had a presentation by Ohio State Energy Partners. At our last meeting, we asked them to give us more information. We really think about this as a financial deal oftentimes, and we have many good conversations about the finances that it's generating. But consider that we have 33 million square feet on this campus,

and consider that over the next several years, every one of those square feet will be metered with a smart meter; that we're changing out every lightbulb on campus; that we are redoing an integrated HVAC system; that we're building a new micro grid on campus — all of which will result in a more than 25 percent decrease in energy usage on our campus. We will be, because of the work being done by Ohio State Energy Partners, in my opinion one of the most energy conscious and smart campuses in America, if not the world. On theme, it becomes a teaching laboratory for our students and faculty. There's a great presentation in the board books, I would urge you to take a look at it, because the energy deal is a whole lot more than a little bit of money. Maybe it's a lot of money, but it is going to have enormous impacts, and we were pleased to hear that report.

In a similar way, Mike [Hofherr] reported on Wi-Fi on campus. Gene Smith had brought a plan to us back in the summer for a couple of facilities for Wi-Fi. That was a great plan, but we appreciate his indulgence because the committee said, "could we go further?" And the team, led by Mike Hofherr, brought a plan today to put universal Wi-Fi over the next several years in every aspect of the campus, again making us one of the smartest campuses in America. Let me give you some perspective. We have 10,000 inside building Wi-Fi spots that are going to grow to 25,000. We have 32 outside spots of Wi-Fi that are going to grow to 1,000. It's an enormous project. The world is moving quickly and it's driven by the internet of things. For all those freshmen who are going to get iPads, they want to be connected, and our campus — with the actions that it will take today — will be connected. Ms. Readey also presented utility system capital improvement projects that are being funded by Ohio State Energy Partners for many of the improvements that I talked about. We likewise reviewed the ambulatory plan at the Wexner Medical Center. As Bobby Schottenstein appropriately pointed out, it's great when we work a plan, because this investment in ambulatory centers is a direct output of the two-year strategic plan of the medical center. Finally, we reviewed a joint use agreement between the university and Tech Town New Market, which is a facility in Dayton, Ohio. The state capital plan is giving us money to do a partnership there, another example of how this great university reaches all parts of our state. We also went into executive session for a few moments to discuss some issues, and that concludes my report, Mr. Chairman.

#### Mr. Shumate:

Thank you, Mr. Fischer. Any questions or comments? If not, Dr. Reid, the Governance Committee report.

#### Dr. Reid:

Thank you, Mr. Chairman. The Governance Committee met earlier this morning and began our meeting with an update from our graduate student trustee, Dr. Lydia Lancaster, on the student trustee selection process. Since the February meeting, the selection committee interviewed the top 10 candidates and further narrowed the slate of candidates to five, whose names have been sent to the governor's office and will be interviewed in April. We anticipate that our next graduate student trustee will be appointed by Governor Kasich by our June board meeting. Second on our agenda was trustee development. The Ohio State University was recently referenced in two articles from the Chronicle of Higher Education related to board governance and best practices with orientation and onboarding, so I'm proud to say that our reputation with regard to governance is very high. Then we heard from Blake Thompson for a general board office update, including staffing updates, continued improvements with our Diligent Boards software, annual ethics training, and a reminder of our upcoming May deadline to file our annual financial disclosure statement with the Ohio Ethics Commission. If you have any questions about that process, trustees, I would encourage you to reach out to the board office or to our general counsel, Chris Culley.

Mr. Shumate presented our first two items for action, the reappointment of charter trustee Mr. Klingbeil and the ratification of committee appointments appointing Dr. Janet Porter to our Talent and Compensation Committee, Advancement Committee, Academic Affairs and Student Life Committee, and the Wexner Medical Center Board. Blake Thompson presented standard amendments to the bylaws, rules and regulations of the medical staffs of University Hospitals and the James. This was approved by both our QPAC Committee, which is led by Cheryl Krueger, and our Wexner Medical Center Board.

Before I move to my formal report, I would like to take a moment to recognize my two fellow board members who are leaving along with me. So, Dr. Lydia Lancaster, for her outstanding service as our graduate student trustee. Dr. Lancaster made history here at Ohio State. She was the first graduate student and one of the first two students to ever be granted the ability to have full voting rights. So, you made history, Lydia. We'll take a picture of you and hang it somewhere. That is great and it says something about our institution that our student trustees have full voting rights, just like any other trustee. Also, of course, joining Lydia and me in our board departure is Jerry Jurgensen. I'd like to recognize his steadfast contributions to our board. His lending his expertise in finance and business has been a great help to the board. I'd like to sum up Jerry a little bit by saying that, over these nine years as we've served together, he's been more like a ghostbuster. Any time we had a serious problem, who you gonna call? And Jerry came. Also, as I leave, I want to say to Dr. Drake — it has been a sheer pleasure working with you. Often, boards — when recruiting presidents — look for visionaries. We always say we want a visionary, but it's rare when we ever get a visionary. You, sir, are a visionary and it has been a pleasure serving with you. Then to our board office — Blake Thompson and all of the people who sit back here and make things work. Board offices vary in competence and capabilities, and this one is not only in my opinion the best, but it has been codified and recognized as the best. So we thank you, Blake, for all you do. I would also like to recognize our chair, Alex Shumate, for his service as chair for the past two years. Alex, you have been an outstanding chair. You have led the board with a dedicated hand. Your introspection, inclusiveness and guidance has been invaluable. This board has been made better by your leadership, and the institution has been made better by your leadership, so I thank you for your service in this role. Thankfully, your term on the board is not ending, just your term as chair.

I will now turn to President Drake, Mr. Shumate and my fellow trustees to see if you have any other comments that you wish to add.

#### Dr. Drake:

I will just add to the comments I made earlier. I think you summed it up very nicely, Janet, when you said that it's not only our opinion, but it's codified that the board works so very well together. It's like when our national championship team was graduating — a few seniors a couple of years ago — we really celebrate the success that we've had. We are pleased — and Jerry was saying several things about this as well — at the wonderful place that you are all leaving the university, and look forward to making you proud in the future.

#### Dr. Reid:

Thank you.

#### Mr. Shumate:

I'd like to also thank you, Dr. Reid, for your years of service and your dedication and commitment and leadership. And, as I said last evening, we're not going to let you go.

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#### **ELECTION OF OFFICERS**

#### Dr Reid:

Thank you, so much, for your kind words. I would now like to give my formal report on the election of officers and move that we convene a committee of the whole.

#### Mr. Shumate:

We have a motion to convene a committee of the whole. May I have a second?

Upon the motion of Dr. Reid, seconded by Mrs. Wexner, the Board of Trustees adopted the foregoing motion by unanimous voice vote.

#### Mr. Shumate:

We are now a committee of the whole. Dr. Reid?

#### Dr. Reid:

Knowing that Alex's service as chair was ending, the Governance Committee started a process of review several meetings ago that included my collecting verbal input from all the trustees about the work of the chair and recommendations moving forward for Alex's replacement. There was unanimous agreement that the Governance Committee should move forward by placing Mike Gasser's name in consideration for the chair role. I consulted with Mr. Gasser to make sure he was willing and able to serve in this capacity. This is a tremendous amount of work required here. Therefore, after a careful and diligent review by the Governance Committee, we have the following slate of officers that we would like to recommend to the full board for approval: Mr. Mike Gasser as chair of the board, Mr. Timothy Smucker and Mrs. Abigail Wexner as vice chairs of the board, and Blake Thompson as secretary of the board. I would like to move this slate of officers to be approved by the board. The formal resolution language is at each of your seats.

#### **ELECTION OF OFFICERS**

Resolution No. 2018-108

Synopsis: Approval of the following slate of officers, is proposed.

WHEREAS the *Bylaws of the Board of Trustees* specify that the officers of the board shall be elected annually by the board; and

WHEREAS all officers shall take office at the adjournment of the April meeting of the board, or on April 1st if there is no April board meeting, and they shall hold their office through the following April meeting of the Board of Trustees or until their successors are elected and qualified, so long as they shall continue to be eligible to serve as officers; and

WHEREAS a careful and diligent review was conducted by the Governance Committee and the following slate of officers is recommended for approval by the board:

Michael J. Gasser, Chair Timothy P. Smucker, Vice Chair Abigail S. Wexner, Vice Chair Blake Thompson, Secretary

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the slate of officers as presented.

#### Mr Shumate:

Thank you, Dr. Reid. We have a motion on the floor. May I have a second? Any comments or discussion? Will the secretary please call the roll?

Upon the motion of Dr. Reid, seconded by H. Jordan Moseley, the Board of Trustees adopted the foregoing motion with 12 affirmative votes, cast by trustees Mr. Shumate, Dr. Reid, Mr. Jurgensen, Mr. Kellogg, Ms. Krueger, Mr. Porteus, Mr. Fischer, Dr. Fujita, Mr. Stockmeister, Mr. Zeiger, Dr. Lancaster and Mr. Moseley. Mr. Gasser, Mr. Smucker and Mrs. Wexner abstained.

#### Dr. Thompson:

The motion carries, Mr. Chairman.

#### Dr. Reid:

Thank you again, Chairman Shumate, and congratulations to our incoming chair, Mr. Gasser. At the end of today's session, the outgoing chair will hand you the gavel. The committee also met in executive session and that concludes my report, Mr. Chairman.

#### Mr. Shumate:

Thank you. Congratulations, Mike. We look forward to working with you, and you are indeed the right person for the right time. Do you have any comments that you'd like to make?

#### Mr. Gasser:

First of all, thank you very much. I'm honored and pleased to take this role. I would be remiss if I didn't thank you, Alex, for your great leadership over the last couple years. You've left this university in a better place than when you started, as Jerry talked about. I think that was a very appropriate comment he made before. By any metric, when we look at the university today, we are doing very well. Whether you look at financial metrics or admission rates or graduation rates, we're doing well. But I'm also not naive enough to think we don't have a lot of challenges ahead of us. With the support of Mr. Smucker and Mrs. Wexner, we look forward to meeting those challenges and turning those challenges into opportunities. So that's going to be our objective, to hit those challenges head on and turn them into opportunities. And I'm pleased, Alex, that you're staying around and will be there to help, and I'm look forward to working with each and every one of you.

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#### **CONSENT AGENDA**

#### Mr. Shumate:

Now the consent agenda is before the trustees. Dr. Drake, would you please present it to the board?

#### Dr. Drake:

Thank you, Chairman Shumate.

The consent agenda has been updated based on actions taken at yesterday's committee meetings. We have updated copies at your seats and available for the public. Today, we have 25 resolutions on the consent agenda. We will hold a separate vote for item numbers six and eight, "Approval to Enter into Professional Services/Construction Contracts" and "Approval for Acquisition of Unimproved Real Property." We are seeking approval of the following:

#### **RESOLUTIONS IN MEMORIAM**

Resolution No. 2018-83

Synopsis: Approval of Resolutions in Memoriam, is proposed.

BE IT RESOLVED, That the Board of Trustees hereby approves the following Resolutions in Memoriam and that the president be requested to convey copies to the families of the deceased.

#### Bernard U. Bowman Jr.

The Board of Trustees of The Ohio State University expresses its sorrow regarding the death on January 8, 2018, of Bernard Ulysses Bowman Jr., Professor Emeritus of Medical Microbiology and Immunology in the College of Medicine.

Professor Bowman received his undergraduate degree from Piedmont College in 1950, and his master's from Emory University in 1957. His PhD was awarded from the University of Oklahoma in 1963. He joined the Department of Pathology at Ohio State as an assistant professor in 1964, and transferred to the new Department of Medical Microbiology in the College of Medicine in 1966, as one of three founding members of the department. He served as an active researcher and educator in this department until his retirement as Professor Emeritus in 1991.

His research program was in the area of microbiology, focusing on *Mycobacterium tuberculosis*, the causative agent for tuberculosis, and the drug used to treat this disease, isoniazid. He worked on various conditions that might inactivate the drug. He also studied the relationship between a virus infecting mycobacteria, termed a mycobacteria phage, and the host, focusing on neutralization of the virus. Professor Bowman researched virus neutralization in general and the role of antibodies in inactivating viruses. His research was supported by the National Institutes of Health and the American Thoracic Society. He was awarded a prestigious NIH Career Development Award from 1968-72, which brought recognition to him, his department and the university.

Professor Bowman was a recognized educator, teaching microbiology to medical students and training graduate students in the particular fields of phage biology, phage-host interactions and virus infections. He mentored several graduate students in his laboratory and these students have gone on to productive careers in science and industry. He also was an active member of committees in his department and college at the university, in addition to serving his profession nationally.

On behalf of the university community, the Board of Trustees expresses to the wife, children and extended family of Professor Bernard Ulysses Bowman Jr. its deepest sympathy and sense of understanding of their loss. It is directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to his family as an expression of the board's heartfelt sympathy and appreciation.

#### **Marjorie Murfin**

The Board of Trustees of The Ohio State University expresses its sorrow regarding the death on February 26, 2018, of Marjorie Murfin, Professor Emerita and former reference librarian in University Libraries.

Professor Murfin, who worked at University Libraries from 1975-2002, was recognized throughout her career for excellence in the performance of library-related teaching. Her techniques and outcomes were applauded by colleagues, faculty and students alike, who found Professor Murfin's instruction in the use of library services and conducting research to be exemplary. Her research expertise was well known; faculty members often asked for her by name when seeking library assistance.

She developed an evaluation instrument for measuring reference service — the Reference Transaction Assessment Instrument (RTAI) — which began being utilized in 1983. Later, joined by Wisconsin Library School professor and colleague Charles Bunge, the RTAI was eventually used in 200 public libraries and 168 academic libraries in the United States and Canada.

Professor Murfin was also well known for her extensive publishing in the field of library science, which she shared through lectures and presentations at a number of professional conferences. Professor Murfin's research work was recognized in 1989 with the Alumna of the Year Award from Kent State University.

Her commitment to the profession was further demonstrated through Professor Murfin's involvement in numerous library organizations, including the American Library Association's Reference Services Division, the Academic Library Association of Ohio and the American Association of University Professors.

Professor Murfin was also recognized for her work in 1987, when she received the Isadore Gilbert Mudge Award, given by the Reference and Adult Services Division of the American Library Association, for her distinguished contributions to reference librarianship.

On behalf of the university community, the Board of Trustees expresses to the family of Professor Marjorie Murfin its deepest sympathy and sense of understanding of their loss. It is directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to her family as an expression of the board's heartfelt sympathy and appreciation.

#### David H. Stansbery

The Board of Trustees of The Ohio State University expresses its sorrow regarding the death on August 24, 2017, of David Honor Stansbery, Professor Emeritus in the Department of Evolution, Ecology and Organismal Biology.

Professor Stansbery, age 91, passed away in Columbus, Ohio. He was the son of Honor Gerald Stansbery and Daisy Elizabeth Kirby of Upper Sandusky. He was a graduate and senior class president of Upper Sandusky High School and served in the U.S. Navy from 1944-46. He received his Bachelor of Science in 1950, his Master of Science in 1953, and his PhD in 1960, all from The Ohio State University.

From 1970-2000, Professor Stansbery was the director and curator of molluscs at the university's Museum of Biological Diversity. For years, he taught Animal Ecology in what was then the Department of Botany and Zoology, where he was a professor of Zoology.

He was a visiting scientist at the National Museum of Natural History in Washington, D.C., and at the Huazhong Agricultural University in Wuhan, China. He held fellowships in several organizations, including the American Association for the Advancement of Science and the Ohio Academy of Science, and was a senior conservation fellow in Hydrobiology at the Franz Theodore Stone Institute of Hydrobiology. He also served on the national board of The Nature Conservancy, as president of the American Malacological Union, on the board of the American Rivers Conservation Council, as a trustee of the Columbus Audubon Society, and as a consultant to numerous organizations including the Environmental Defense Fund.

As a professor at Ohio State, he served the university on many committees ranging from the Graduate Committee to the OSU Campaign. He served as editor or on the editorial board of seven journals. He was widely regarded as a world-expert on freshwater molluscs and a champion of their conservation long before it was fashionable to do so, earning the Ohio Conservation Achievement Award, The Nature Conservancy Oak Leaf Award, and the Freshwater Mollusk Conservation Society's Lifetime Achievement Award. Together with his staff and students, he assembled what is arguably the largest collection of freshwater molluscs in the world, more than 1.6 million specimens. His enthusiasm, charm and profound knowledge resonates still through his many students, colleagues and contacts. He was one of the giants in his field.

The Stansbery family has donated his malacological library and personal collection of specimens to Ohio State's Division of Molluscs. One of the most complete, private malacological libraries in the world, it contains many very rare works, including originals from malacologists Bourguignat, Caxton, Conrad, Germain, Heude, Kuester, Lamarck, Lister, Locard, de Montfort, Rumphius, Say and many others. The mollusc collection will be dedicated in Professor Stansbery's honor and commemorated.

On behalf of the university community, the Board of Trustees expresses to the family of Professor David H. Stansbery its deepest sympathy and sense of understanding of their loss. It is directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to his family as an expression of the board's heartfelt sympathy and appreciation.

#### REAPPOINTMENT OF A CHARTER TRUSTEE

Resolution No. 2018-84

Synopsis: Approval of the reappointment of James D. Klingbeil as a Charter Trustee to the Board of Trustees, is proposed.

WHEREAS the Board of Trustees established the position of Charter Trustee at its meeting on February 6, 2009, acknowledging that the establishment of such a position had the potential of further strengthening the governance capacity of the board; and

WHEREAS the Ohio State University is one of the premier public land-grant institutions in the country and, in execution of its mission, embraces education on a state, national and global scale; and

WHEREAS the complex and multi-faceted nature of the university — in its mission, its character, its constituencies and its financing — calls for extraordinary leadership at the highest levels; and

WHEREAS the governance of the university would be well-served by Charter Trustees whose attributes include but are not limited to diverse cultural, geographic, business, professional, public service and civic backgrounds; and

WHEREAS the board added a number of guidelines, including the following:

Charter Trustees shall be non-Ohio residents and shall be chosen on the basis of the following attributes: Ohio State alumna/alumnus or friend of the university; success in his or her chosen field or profession; state, national or international prominence; ability to advocate for higher education; expertise in areas deemed critical to the university; and willingness and ability to offer counsel; and

WHEREAS James D. Klingbeil of San Francisco, California, is a distinguished alumnus of The Ohio State University, and has a record of extraordinary service to the university through his philanthropy and dedication to the Foundation Board; by a career of significant accomplishment as founder of the Klingbeil Company and current position as chairman of Klingbeil Capital Management; and by his expertise in areas critical to the mission of the university and to the work of the Board of Trustees proven to be an exemplary embodiment of all of those qualities deemed most desirable in a Charter Trustee:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the reappointment of James D. Klingbeil as a Charter Trustee to serve a second three-year term commencing June 6, 2018.

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#### **RATIFICATION OF COMMITTEE APPOINTMENTS 2018-19**

Resolution No. 2018-85

BE IT RESOLVED, That the Board of Trustees hereby approves that the ratification of committee appointments for 2018-19 are as follows:

#### Academic Affairs and Student Life:

Clark C. Kellogg, Chair Cheryl L. Krueger, Vice Chair

Janet B. Reid
Timothy P. Smucker
Erin P. Hoeflinger
Abigail S. Wexner
Hiroyuki Fujita
Alan A. Stockmeister
H. Jordan Moseley
James D. Klingbeil
JANET PORTER

Richard K. Herrmann (faculty member) Alex Shumate (ex officio)

Finance:

Michael J. Gasser, Chair Brent R. Porteus, Vice Chair W. G. "Jerry" Jurgensen Jeffrey Wadsworth Alexander R. Fischer John W. Zeiger Lydia A. Lancaster Alan VanderMolen Alex Shumate (ex officio)

#### Advancement:

Erin P. Hoeflinger, Chair Alan VanderMolen, Vice Chair Clark C. Kellogg Cheryl L. Krueger Brent R. Porteus Alexander R. Fischer Abigail S. Wexner Alan A. Stockmeister Lydia A. Lander

JANET PORTER Nancy J. Kramer Craig S. Bahner

# KRISTIN L. WATT (Alumni Assn

Georganne M. Shockey (Alumni Assn. member)

James F. Dietz (Foundation Board member)

Gifford Weary (Foundation Board member)

Alex Shumate (ex officio)

#### Audit and Compliance:

Timothy P. Smucker, Chair

W. G. "Jerry" Jurgensen, Vice Chair

Michael J. Gasser

Jeffrev Wadsworth

Hiroyuki Fujita

John W. Zeiger

H. Jordan Moselev

James D. Klingbeil

Lawrence A. Hilsheimer

Amy Chronis

Craig S. Morford

#### Master Planning and Facilities:

Alexander R. Fischer, Chair

James D. Klingbeil, Vice Chair

Brent R. Porteus

Alan A. Stockmeister

H. Jordan Moseley

Robert H. Schottenstein

Alex Shumate (ex officio)

#### Wexner Medical Center:

Leslie H. Wexner. Chair

Janet B. Reid

W. G. Jurgensen

Cheryl L. Krueger

Abigail S. Wexner JANET PORTER

David B. Fischer

Stephen D. Steinour

Robert H. Schottenstein

Alex Shumate (ex officio, voting)

Michael V. Drake (ex officio, voting)

Bruce A. McPheron (ex officio, voting)

Michael Papadakis (ex officio, voting)

K. Craig Kent (ex officio, non-voting)

L. Arick Forrest (ex officio, non-voting) David P. McQuaid (ex officio, non-voting)

Mark E. Larmore (ex officio, non-voting)

Andrew M. Thomas (ex officio, non-voting)

Elizabeth O. Seely (ex officio, non-voting)

Susan D. Moffatt-Bruce (ex officio, non-voting)

Mary A. Howard (ex officio, non-voting)

William B. Farrar (ex officio, non-voting)

Martha C. Taylor (ex officio, non-voting)

Amanda N. Lucas (ex officio, non-voting)

Alex Shumate (ex officio)

#### Governance:

Janet B. Reid. Chair Timothy P. Smucker, Vice Chair

Erin P. Hoeflinger

Hiroyuki Fujita

Lvdia A. Lancaster

Alan VanderMolen

Alex Shumate (ex officio)

#### **Talent and Compensation:**

W. G. "Jerry" Jurgensen, Chair

Janet B. Reid, Vice Chair

Michael J. Gasser

Erin P. Hoeflinger

Hiroyuki Fujita

John W. Zeiger

Lvdia A. Lancaster JANET PORTER

Alex Shumate (ex officio)

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## AMENDMENTS TO THE BYLAWS AND RULES AND REGULATIONS OF THE MEDICAL STAFF OF UNIVERSITY HOSPITALS

Resolution No. 2018-86

Synopsis: The amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals are recommended for approval.

WHEREAS the proposed amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals were approved by a joint University Hospitals and James Bylaws Committee on October 9, 2017; and

WHEREAS the proposed amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals were approved by the University Hospitals Medical Staff Administrative Committee on December 13, 2017; and

WHEREAS the proposed amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals were approved by the University Hospitals Medical Staff on January 5, 2018; and

WHEREAS the proposed amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals were approved by the Quality and Professional Affairs Committee of the Wexner Medical Center Board on March 27, 2018; and

WHEREAS the proposed amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals were approved by the Wexner Medical Center Board on April 4, 2018:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the attached amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals.

(See Appendix XLVII for background information, page 919)

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# AMENDMENTS TO THE BYLAWS AND RULES AND REGULATIONS OF THE MEDICAL STAFF OF THE ARTHUR G. JAMES CANCER HOSPITAL AND RICHARD J. SOLOVE RESEARCH INSTITUTE

Resolution No. 2018-87

Synopsis: The amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute are recommended for approval.

WHEREAS the proposed amendments to the *Bylaws and the Rules and Regulations of the Medical Staff* of The James Cancer Hospital were approved by a joint University Hospitals and James Bylaws Committee on October 9, 2017, and the James Bylaws Committee on December 1, 2017; and

WHEREAS the proposed amendments to the *Bylaws and the Rules and Regulations of the Medical Staff* of The James Cancer Hospital were approved by the James Medical Staff Administrative Committee on December 8, 2017; and

WHEREAS the proposed amendments to the *Bylaws and the Rules and Regulations of the Medical Staff* of The James Cancer Hospital were approved by the James Medical Staff on December 22, 2017; and

WHEREAS the proposed amendments to the *Bylaws and the Rules and Regulations of the Medical Staff* of The James Cancer Hospital were approved by the Quality and Professional Affairs Committee of the Wexner Medical Center Board on March 27, 2018; and

WHEREAS the proposed amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The James Cancer Hospital were approved by the Wexner Medical Center Board on April 4, 2018:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the attached amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The James Cancer Hospital.

(See Appendix XLVIII for background information, page 932)

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### APPROVAL FOR FISCAL YEAR 2018 UTILITY SYSTEM CAPITAL IMPROVEMENT PROJECTS

Resolution No. 2018-88

# SOUTH NEIL STEAM CAPACITY UPGRADE – DESIGN ONLY POSTLE HALL EXPANSION UTILITIES

Synopsis: Authorization for Ohio State Energy Partners LLC to make capital improvements to the utility system pursuant to terms of the Long-Term Lease and Concession Agreement for The Ohio State University Utility System dated April 10, 2017, as amended, ("Agreement"), is proposed.

WHEREAS the concessionaire, Ohio State Energy Partners LLC, has requested approval of these utility system capital improvement projects for the fiscal year ending June 30, 2018; and

WHEREAS the concessionaire has provided the detailed descriptions of the proposed capital improvements, supporting technical data and analysis, pursuant to Section 4.3(c) of the Agreement; and

WHEREAS the project will be delivered pursuant to the terms of the Agreement; and

WHEREAS the capital expenditures for the approved utility system projects will be added to the variable fee component of the utility fee pursuant to the Agreement; and

WHEREAS the university has reviewed and considered the financial, technical and operational aspects of these projects and the projects' alignment with university plans and sustainability goals; and

April 6, 2018, Board of Trustees meeting

WHEREAS the Master Planning and Facilities Committee has reviewed the projects for alignment with all applicable campus plans and guidelines; and

WHEREAS the Finance Committee has reviewed the projects for alignment with the Capital Investment Plan and other applicable financial plans:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby authorizes Ohio State Energy Partners LLC to proceed with the capital improvements to the utility system as outlined in the attached materials.

(See Appendix XLIX for background information, page 960)

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#### APPROVAL TO ENTER INTO A JOINT USE AGREEMENT

Resolution No. 2018-89

# BETWEEN THE OHIO STATE UNIVERSITY AND TECH TOWN NEW MARKET, INC.

Synopsis: Authorization to enter into a Joint Use Agreement (JUA) with Tech Town New Market, Inc., an Ohio nonprofit agency, to document the value and permit the release of funds appropriated in the state capital bill for design and build-out of space in building three of the Tech Town Technology Park, is proposed.

WHEREAS The Ohio State University was allocated \$250,000 in the 2017 state capital bill that is specifically designated for use by Tech Town New Market, Inc.; and

WHEREAS Tech Town New Market, Inc. will utilize the funds for design and build-out of commercialization space in the Tech Town Technology Park, located in Dayton Ohio; and

WHEREAS The Ohio State University has an opportunity to expand its partnerships and activities in the Dayton area, and would benefit from having a space locally to support a variety of engagements; and

WHEREAS Tech Town New Market, Inc. commits to making office space, meeting space and shop/lab space in the Tech Town facilities available for the university's use; and

WHEREAS the terms and conditions for this university use shall be more favorable than the terms and conditions of use by any other entity to a degree that reasonably reflects the magnitude of the university's investment in the Tech Town facility for the term of the agreement; and

WHEREAS except for the funds used to cover the university's reasonable administrative costs related to the project, the funds provided under this JUA shall be used by Tech Town New Market, Inc. only for capital improvements or purchases and shall not be used for operating expenses; and

WHEREAS the university's use of Tech Town New Market, Inc. space will promote the university's mission to advance the well-being of the people of Ohio and the global community through the creation and dissemination of knowledge; and

WHEREAS before the state capital appropriation may be released to Tech Town New Market, Inc., the Ohio Department of Higher Education requires that a JUA between the

university and Tech Town New Market, Inc. be signed to document the value of the appropriation to Ohio State and to ensure the benefits to the university will continue for a minimum period of 20 years:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves that the president and/or senior vice president for Business and Finance and/or senior vice president for Administration and Planning be authorized to take any action required to effect the Joint Use Agreement containing terms and conditions deemed to be in the best interest of the university.

(See Appendix L for background information, page 961)

#### **AUTHORIZATION TO APPROVE ATHLETIC PRICES AND FEES**

Resolution No. 2018-90

Synopsis: Approval of athletic ticket prices for fiscal year 2019 at the recommended levels, is proposed.

WHEREAS The Ohio State University Department of Athletics has a long history of selfsustainability in supporting 36 world-class athletics programs and providing needed revenues back to the university for scholarships and academic programs; and

WHEREAS Ohio State desires to continue its variable ticket pricing methodology to create a range of pricing options for fans attending games; and

WHEREAS each year the Athletic Council reviews projections for the coming year's budget and recommends ticket prices; and

WHEREAS the Athletic Council has approved pricing for men's basketball tickets as shown on the attached table; and

WHEREAS the Athletic Council's recommendations have been reviewed and are recommended by the appropriate university administration:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the recommended prices for men's basketball tickets for fiscal year 2019 as set forth in the attachment.

(See Appendix LI for background information, page 962)

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#### AUTHORIZATION OF A MASTER EQUIPMENT LEASE WITH APPLE INC.

Resolution No. 2018-91

Synopsis: Authorization of that certain Master Equipment Lease with Apple Inc., including performance of all obligations thereunder and execution and delivery of documents in connection therewith, is proposed.

WHEREAS the university has committed to a student-success initiative that will help provide universal access to a common set of learning technologies; and

WHEREAS new first-year students who commence studies in autumn 2018 at the Columbus or regional campuses each will receive an Apple iPad Pro with tools, including Apple Pencil and Smart Keyboard (collectively, the "Apple Products") as well as certain software, AppleCare + warranty protection and apps to support learning and life at the university; and

WHEREAS the university proposes to finance the cost of the Apple Products of approximately \$11.1 million for incoming first-year students who commence studies in autumn 2018 by entering into a Master Lease Agreement with Apple Inc. (the "Equipment Lease") pursuant to which the university will finance such cost of the Apple Products with four (4) annual lease payments commencing in spring 2018; and

WHEREAS the cost of the Apple Products financed by the Equipment Lease will constitute subordinated indebtedness for purposes of the resolution adopted by the board on June 5, 2015, titled "Authorization for the Issuance of Additional General Receipts Bonds, Commercial Paper Notes, and Subordinated Indebtedness" wherein the board, among other things, authorized the issuance of senior obligations and subordinated indebtedness of the university for the period ending June 30, 2018, in an aggregate principal amount not to exceed \$1 billion (\$1,000,000,000), as amended by the resolution adopted by the board on June 9, 2017; and

WHEREAS the Finance Committee has determined that it is in the best interests of the university to enter into the Equipment Lease to finance the costs of the Apple Products:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees has determined it is in the best interests of the university to enter into the Equipment Lease to finance the costs of the Apple Products and to perform the obligations arising thereunder, including the university's obligation to make the lease payments; and

BE IT FURTHER RESOLVED, That the Board of Trustees hereby authorizes the university to enter into the Equipment Lease to finance the cost of the Apple Products in an amount not to exceed \$11.1 million and to enter into any other documents that the president and/or senior vice president for Business and Finance (each an "Authorized Officer"), or either of them, deems necessary, advisable or appropriate in connection with the Equipment Lease, such Authorized Officer's execution thereof to be conclusive evidence of such approval and determination of the necessity, advisability or appropriateness thereof (the "Related Agreements"); and

BE IT FURTHER RESOLVED, That the Board of Trustees hereby authorizes and directs the Authorized Officers, or either of them, to negotiate, execute, acknowledge and deliver the Equipment Lease and any Related Agreement on such terms as any Authorized Officer deems necessary, advisable or appropriate, with such Authorized Officer's execution thereof to be conclusive evidence of such approval and determination of the necessity, advisability or appropriateness thereof and to take such actions as any Authorized Officer deems necessary, advisable or appropriate to perform the Equipment Lease and Related Agreements, with such Authorized Officer's taking of such action to be conclusive evidence of such approval and determination of the necessity, advisability or appropriateness thereof; and

BE IT FURTHER RESOLVED, That all actions previously taken by any Authorized Officer or employee of the university, by or on behalf of the university in connection with the Equipment Lease, be, and each of the same hereby is, adopted, ratified, confirmed and approved in all respects; and

BE IT FURTHER RESOLVED, That it is found and determined that all formal actions of this board concerning and relating to the adoption of this resolution were adopted in an open meeting of this board, and that all deliberations of this board and of any of its committees that resulted in such formal action were in meetings open to the public, in compliance with all legal requirements including Section 121.22 of the Ohio Revised Code; and

BE IT FURTHER RESOLVED, That this resolution shall take effect and be in force immediately upon its adoption.

(See Appendix LII for background information, page 964)

\*\*\*

#### REVISION OF THE PATENTS AND COPYRIGHTS POLICY

Resolution No. 2018-92

Synopsis: Revision of the university's Patents and Copyrights policy (renamed Intellectual Property policy), is proposed.

WHEREAS The Ohio State University encourages the creation and dissemination of knowledge, including works of authorship, discoveries, inventions, patents and tangible property that can serve the public through open academic exchange and commercial development; and

WHEREAS The Ohio State University Board of Trustees previously adopted the Patents and Copyrights policy in May 1985, to create a process to oversee such efforts; and

WHEREAS the Patents and Copyrights policy was most recently revised, with approval by the Board of Trustees, in May 1989; and

WHEREAS there is now a desire to revise the Patents and Copyrights policy to clarify the rights of faculty members with respect to their scholarship, instructional works and artistic works; address the rights of software creators; update the process for the commercialization of inventions, discoveries and patents; address the rights of staff members with respect to their intellectual creation; adjust the royalties-sharing mechanism; establish a dispute resolution mechanism; align the policy with the university's standard policy template; and rename it the Intellectual Property policy; and

WHEREAS rule 3335-13-06 states that the University Senate's intellectual properties, patents and copyrights committee (IPPC) shall review and have the power to propose changes to the policy on intellectual property, patents and copyrights; and

WHEREAS rule 3335-13-06 also states that revisions to the policy must be approved by the Faculty Council and University Senate, in addition to the other approvals required by the university policy process; and

WHEREAS after a multi-year drafting process, the IPPC approved the proposed revised Patent and Copyrights policy (renamed Intellectual Property policy); and

WHEREAS the senior vice president for Business and Finance and chief financial officer reviewed the proposed revised policy and recommended such revisions to the Senior Management Council and the president's cabinet; and

WHEREAS the Senior Management Council endorsed, and the president's cabinet approved, the proposed revised policy; and

April 6, 2018, Board of Trustees meeting

WHEREAS the Faculty Council and the University Senate approved the proposed revised policy; and

WHEREAS the University Senate and the president's cabinet recommend the adoption of the revised Patents and Copyrights policy (renamed Intellectual Property policy):

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the revised Patents and Copyrights policy (renamed Intellectual Property policy) as set forth in the attachment, proposed to be effective April 15, 2018.

(See Appendix LIII for background information, page 967)

\*\*

#### AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY

Resolution No. 2018-93

Synopsis: Approval of the following amendments to the *Rules of the University Faculty*, is proposed.

WHEREAS the University Senate, pursuant to rule 3335-1-09 of the Administrative Code, is authorized to recommend through the president to the Board of Trustees the adoption of amendments to the *Rules of the University Faculty* as approved by the University Senate; and

WHEREAS the proposed changes to rule 3335-19-03 in the *Rules of the University Faculty* were approved by the University Senate on November 20, 2014; and

WHEREAS the proposed changes to rule 3335-13-04 and rule 3335-13-05 in the *Rules of the University Faculty* were approved by the University Senate on January 25, 2018:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves that the attached amendments to the *Rules of the University Faculty* be adopted as recommended by the University Senate.

(See Appendix LIV for background information, page 979)

\*\*\*

#### **FACULTY PERSONNEL ACTIONS**

Resolution No. 2018-94

BE IT RESOLVED, That the Board of Trustees hereby approves the faculty personnel actions as recorded in the personnel budget records of the university since the February 2, 2018, meeting of the board, including the following appointments, appointments/reappointments of chairpersons, faculty professional leaves, and emeritus titles:

#### **Appointments**

Name: BRADLEY J. NEEDLEMAN

#### April 6, 2018, Board of Trustees meeting

Title: Professor-Clinical (Edwin H. and E. Christopher Ellison

Professorship)

College: Medicine

Term: April 5, 2018 through April 4, 2022

Name: ANIL V. PARWANI

Title: Professor-Clinical (Donald A. Senhauser, MD, Chair in

Pathology)

College: Medicine

Term: January 1, 2018 through December 31, 2021

Name: \*BENJAMIN K. POULOSE

Title: Professor (Robert M. Zollinger LeCrone-Baxter Memorial

**Endowed Chair in Surgery)** 

College: Medicine

Term: August 1, 2018 through July 31, 2022

Name: ALICIA L. BERTONE

Title: Vice Provost for Graduate Studies
Office: Academic Affairs

Office: Academ

Title: Dean

College: The Graduate School

Term: April 16, 2018 through June 30, 2021

\*New Hire

(See Appendix LV for background information, page 982)

\*\*\*

#### **DEGREES AND CERTIFICATES**

Resolution No. 2018-95

Synopsis: Approval of degrees and certificates for spring semester, is proposed.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees, the names of persons who have completed degree and certificate requirements; and

WHEREAS the College of Food, Agricultural and Environmental Sciences has recommended that Caroline "Grace" Cotter be awarded a Bachelor of Science in Agriculture, *Cum Laude*, posthumously; and

WHEREAS the College of Food, Agricultural and Environmental Sciences has recommended that Nicolas Petrykowski be awarded a Bachelor of Science in Agriculture, posthumously:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the degrees and certificates to be conferred on May 6, 2018, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the

#### April 6, 2018, Board of Trustees meeting

colleges and schools; that Caroline "Grace" Cotter be awarded the above named degree, posthumously; that Nicolas Petrykowski be awarded the above named degree, posthumously; and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

(See Appendix LXIII for background information, page 1244)

\*\*\*

#### HONORARY DEGREES

Resolution No. 2018-96

Synopsis: Approval of the below honorary degrees, is proposed.

WHEREAS pursuant to paragraph (A)(3) of rule 3335-1-03 of the Administrative Code, the president, after consultation with the Steering Committee of the University Senate, recommends to the Board of Trustees the awarding of honorary degrees as listed below:

Joan Baez
Susan Desmond-Hellmann
Colin Powell
Doctor of Humane Letters
Doctor of Science
Doctor of Public Service

WHEREAS the Committee on Honorary Degrees and the University Senate, pursuant to rule 3335-5-48.8 of the Administrative Code, have approved for recommendation to the Board of Trustees the awarding of an honorary degree as listed below:

Matthieu Ricard

Doctor of Humane Letters

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the awarding of the above honorary degrees.

(See Appendix LVI for background information, page 988)

\*\*

#### **REVOCATION OF AN HONORARY DEGREE**

Resolution No. 2018-97

Synopsis: Revocation of an honorary Doctor of Education degree, is proposed.

WHEREAS an administrative review was conducted regarding the presidential honorary Doctor of Education degree granted to William H. Cosby Jr. on June 8, 2001; and

WHEREAS a determination was made by the appropriate bodies to request that the Board of Trustees effectuate the revocation of said presidential honorary degree; and

WHEREAS the request was concurred with by the president and the executive vice president and provost; and

WHEREAS the request was further concurred with by the University Senate Steering Committee and the Academic Affairs and Student Life Committee of the Board of Trustees: and

WHEREAS the appropriate bodies of the university have fully complied with applicable procedures and in accordance with those procedures:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the revocation of the presidential honorary Doctor of Education degree granted to William H. Cosby Jr. on June 8, 2001.

\*\*\*

### ESTABLISHMENT OF A DOCTOR OF PHILOSOPHY IN ENGINEERING EDUCATION DEGREE PROGRAM

Resolution No. 2018-98

#### **COLLEGE OF ENGINEERING**

Synopsis: Approval to establish a Doctor of Philosophy in Engineering Education degree program in the College of Engineering, is proposed.

WHEREAS the program will lead to the terminal degree for the new Department of Engineering Education – an entry-level, interdisciplinary research program that combines the disciplines of engineering and education; and

WHEREAS among the goals of the program are that the successful graduate will be able to identify, discuss and address critical issues facing engineering education in alignment with stakeholder needs; design, conduct and critique research in engineering education; and create, teach and assess courses and curricula in engineering; and

WHEREAS the curriculum includes core courses, research methods courses, specialization electives and traditional engineering course work, along with dissertation research; and employment opportunities for graduates exist in colleges and universities, foundations and nonprofit organizations; and

WHEREAS no similar programs exist within Ohio and this one aligns clearly with both the research and land-grant missions of this university; and

WHEREAS the program will be administered by the Department of Engineering Education through a Graduate Studies Committee; is a part of the strategic planning of that department; has the resources, both current and planned, to be established and maintained; and has the support of the leadership of the College of Engineering; and

WHEREAS the proposal was thoroughly reviewed by a joint committee of the Council on Academic Affairs and the Graduate Council, and then was approved by the full Council on Academic Affairs at its meeting on November 1, 2017;

WHEREAS the University Senate reviewed and approved the proposal to establish a Doctor of Philosophy in Engineering Education degree program on January 25, 2018:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the proposal to establish a Doctor of Philosophy in Engineering Education degree program.

(See Appendix LVII for background information, page 990)

\*\*\*

#### **ESTABLISHMENT OF A MASTER OF APPLIED**

#### **NEUROSCIENCE DEGREE PROGRAM**

Resolution No. 2018-99

#### COLLEGE OF MEDICINE

Synopsis: Approval to establish a Master of Applied Neuroscience degree program in the College of Medicine, is proposed.

WHEREAS the goal of the program is to develop a biomedical workforce with expertise in the rapidly expanding field of neuroscience, with the intent of preparing the highest caliber of students equipped to effectively serve in a senior research positon or in an academic setting as an instructor to promote advances in biomedical research and education; and

WHEREAS the four-semester program will have a core didactic curriculum that is neuroscience-based; a more specialized program developed around specific career goals – a research laboratory career or a career in higher education; and a capstone project; and

WHEREAS the program will be housed in the Department of Neuroscience in the College of Medicine, and will be administered by a director, co-director and a graduate faculty committee; and no new facilities are required and no additional costs are anticipated; and has the support of the leadership of the College of Medicine; and

WHEREAS the proposal was reviewed by a joint committee of the Council on Academic Affairs and the Graduate Council, and then was approved by the full Council on Academic Affairs at its meeting on November 1, 2017; and

WHEREAS the University Senate reviewed and approved the proposal to establish a Master of Applied Neuroscience degree program on January 25, 2018:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the proposal to establish a Master of Applied Neuroscience degree program.

(See Appendix LVIII for background information, page 1138)

\*\*\*

#### PERSONNEL ACTIONS

Resolution No. 2018-100

BE IT RESOLVED, That the Board of Trustees hereby approves the personnel actions as recorded in the personnel budget records of the university since the February 2, 2018, meeting of the board, including the following appointments:

#### Reappointment

Name: MARK LARMORE

Title: Vice President and Chief Financial Officer

Department: Wexner Medical Center

Term: April 1, 2018 through March 31, 2021

#### **Contract Extension**

Name: URBAN MEYER
Title: Head Football Coach

Unit: Athletics

Term: February 1, 2018 through January 31, 2023

\*\*\*

#### UNIVERSITY FOUNDATION REPORT

Resolution No. 2018-101

Synopsis: Approval of the University Foundation Report as of February 28, 2018, is proposed.

WHEREAS monies are solicited and received on behalf of the university from alumni, industry and various individuals in support of research, instructional activities and service; and

WHEREAS such gifts are received through The Ohio State University Development Fund and The Ohio State University Foundation; and

WHEREAS this report includes the establishment of one (1) endowed chair: The Saul and Sonia Schottenstein Chair in Israel Studies; one (1) endowed professorship: the Edwin H. and E. Christopher Ellison Professorship; one (1) designated professorship: The Dr. H. Lee "Buck" Mathews Designated Professorship in Marketing; one (1) professorship fund: The Dr. H. Lee "Buck" Mathews Professorship Fund in Marketing; two (2) scholarships as part of the Joseph A. Alutto Global Leadership Initiative: the David C. Rader International Scholarship Fund and the Phillip and Suzanne Faulkner International Scholarship Fund; thirty-two (32) additional named endowed funds; and the revision of eight (8) named endowed funds:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves The Ohio State University Foundation Report as of February 28, 2018.

(See Appendix LIX for background information, page 1191)

\*\*\*

#### **DISTINGUISHED SERVICE AWARDS**

Resolution No. 2018-102

Synopsis: Approval of Distinguished Service Awards to be presented in 2018, is proposed.

WHEREAS these awards are given in recognition of distinguished service to The Ohio State University and are given in accordance with action taken by the Board of Trustees in 1952; and

WHEREAS the president's cabinet reviewed and supported the recommendations of the Distinguished Service Awards Committee for Bobby Moser, David Schuller and Iris Wolstein to receive Distinguished Service Awards in 2018; and

WHEREAS the committee may recommend additional 2018 recipients later in the year:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the awarding of the 2018 Distinguished Service Awards as designated above.

(See Appendix LX for background information, page 1236)

\*\*\*

# NAMING OF THE ALBERT VAN FOSSEN, M.D. & BONNIE VAN FOSSEN GARDEN

Resolution No. 2018-103

#### AT MIRROR LAKE

Synopsis: Approval for the naming of the Browning Amphitheater Garden at Mirror Lake as the Albert van Fossen, M.D. & Bonnie van Fossen Garden, is proposed.

WHEREAS Mirror Lake has long been one of the most iconic campus landmarks and is a source of fond memories for generations of Buckeyes; and

WHEREAS the Browning Amphitheater has been a key component of the Mirror Lake district for over 90 years, and served as a gathering place for members of the Ohio State family; and

WHEREAS through a lifelong history of philanthropy, Albert van Fossen, M.D. and Bonnie van Fossen have contributed and remain committed to bettering several aspects of the Ohio State experience for students, faculty, staff and the community; and

WHEREAS Dr. and Mrs. van Fossen have provided significant contributions to support the renovation and restoration of the Mirror Lake district:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves in accordance with paragraph (D) of rule 3335-1-08 of the Administrative Code, that the Browning Amphitheater Garden at Mirror Lake shall be named the Albert van Fossen, M.D. & Bonnie van Fossen Garden.

\*\*\*

#### RELOCATION OF THE DAVID E. SCHULLER, MD, LABORATORIES

Resolution No. 2018-104

# TO THE BIOMEDICAL RESEARCH TOWER IN THE OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER

Synopsis: Approval for relocating the David E. Schuller, MD, Laboratories from their current location inside the Tzagournis Medical Research Building to the Biomedical Research Tower, located at 460 West 12th Avenue, is proposed.

WHEREAS in 2016, the Board of Trustees approved the naming of the Otolaryngology Laboratories in the Tzagournis Medical Research Building as the David E. Schuller, MD, Laboratories in recognition of Dr. Schuller's decades of tireless work throughout his career at Ohio State and the generous philanthropy of Dr. Schuller, his wife Carole, and their friends and family; and

WHEREAS current and future otolaryngology research has moved from the Tzagournis Medical Research Building to the Biomedical Research Tower; and

WHEREAS relocating the David E. Schuller, MD, Laboratories to the Biomedical Research Tower continues the recognition and aligns with strategic priorities of the Department of Otolaryngology - Head and Neck Surgery:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves in accordance with paragraph (D) of rule 3335-1-08 of the Administrative Code, that the otolaryngology laboratories on the eighth floor of the Biomedical Research Tower be named the David E. Schuller. MD. Laboratories.

#### NAMING OF THE BOB AND CORRINE FRICK CENTER FOR HEART FAILURE AND ARRHYTHMIA

Resolution No. 2018-105

# IN THE OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER HEART AND VASCULAR CENTER

Synopsis: Approval for naming of the new Bob and Corrine Frick Center for Heart Failure and Arrhythmia at The Ohio State University Wexner Medical Center – Heart and Vascular Center, is proposed.

WHEREAS cardiovascular disease is the leading killer of American adults, accounting for nearly one out of every three deaths in the United States; and

WHEREAS a new center for heart failure and arrhythmia will transform the study and treatment of the intersection of heart failure and arrhythmia; and

WHEREAS the center will be the first of its kind and allow for Ohio State to become a national leader in the research and treatment of heart failure and arrhythmia, focusing on the overlap between these two common conditions and generating knowledge that will help save countless lives; and

WHEREAS the center will provide proactive care that will connect patients who are newly diagnosed with arrhythmia to experts in heart failure before it develops; and

WHEREAS Bob and Corrine Frick are grateful for care they have received from the Wexner Medical Center and they have generously supported the creation of this new center:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves in accordance with paragraph (D) of rule 3335-1-08 of the Administrative Code, that the aforementioned center in The Ohio State University Wexner Medical Center – Heart and Vascular Center be named the Bob and Corrine Frick Center for Heart Failure and Arrhythmia.

\*\*

April 6, 2018, Board of Trustees meeting

Mr. Shumate:

May I have a motion? A second? Secretary, will you please call the roll?

Dr. Thompson:

I'll note that we are not including items six and eight, all others are included.

Upon the motion of Mr. Gasser, seconded by Mr. Kellogg, the Board of Trustees adopted the foregoing motion with 15 affirmative votes, cast by trustees Mr. Shumate, Dr. Reid, Mr. Jurgensen, Mr. Kellogg, Mr. Smucker, Ms. Krueger, Mr. Gasser, Mr. Porteus, Mr. Fischer, Mrs. Wexner, Dr. Fuiita, Mr. Stockmeister, Mr. Zeiger, Dr. Lancaster and Mr. Moseley.

Dr. Thompson:

Motion carries, Mr. Chairman.

Dr Drake:

We are also seeking approval of the following, and Mrs. Wexner and Mr. Zeiger will abstain:

# APPROVAL TO ENTER INTO PROFESSIONAL SERVICES AND CONSTRUCTION CONTRACTS

Resolution No. 2018-106

# APPROVAL TO ENTER INTO PROFESSIONAL SERVICES CONTRACTS AIRPORT HANGAR WEXNER MEDICAL CENTER REGIONAL AMBULATORY FACILITIES

# APPROVAL TO ENTER INTO PROFESSIONAL SERVICES AND CONSTRUCTION CONTRACTS

CAMPUS WI-FI SYSTEM

# APPROVAL TO ENTER INTO CONSTRUCTION CONTRACTS POSTLE PARTIAL REPLACEMENT

Synopsis: Authorization to enter into professional services and construction contracts, as detailed in the attached materials, is proposed.

WHEREAS in accordance with the attached materials, the university desires to enter into professional services contracts for the following projects; and

	Prof. Serv. Approval Requested	Total Project Cost	
Airport Hangar	\$0.2M	\$10.6M	University Debt University Funds
WMC Regional Ambulatory Facilities	\$4.0M	TBD	Auxiliary Funds

April 6, 2018, Board of Trustees meeting

WHEREAS in accordance with the attached materials, the university desires to enter into professional services and construction contracts for the following project; and

Prof. Serv.	Construction	Total
Approval	Approval	Project
Requested	Requested	Cost

Campus Wi-Fi System \$1.2M \$17.4M \$18.6M Auxiliary Funds

University Funds

WHEREAS in accordance with the attached materials, the university desires to enter into construction contracts for the following project; and

Prof. Serv.	Total
Approval	Project
Requested	Cost

Postle Partial Replacement \$79.7M \$95.0M Development Funds

University Funds State Funds

WHEREAS the Capital Investment Plan (CIP) outlines capital projects recommended for funding and was approved by the Board of Trustees on August 25, 2017; and

WHEREAS the cost of professional services and/or construction for the Wexner Medical Center Regional Ambulatory Facilities, Campus Wi-Fi System and Postle Partial Replacement was not known at the time the CIP was approved; and

WHEREAS the Master Planning and Facilities Committee has reviewed the projects listed above for alignment with all applicable campus plans and guidelines; and

WHEREAS the Finance Committee has reviewed the projects listed above for alignment with the Capital Investment Plan and other applicable financial plans:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves that the Capital Investment Plan be amended to include professional services for the Wexner Medical Center Regional Ambulatory Facilities; a portion of professional services and construction for the Campus Wi-Fi System; and construction for the Postle Partial Replacement; and

BE IT FURTHER RESOLVED, That the Board of Trustees hereby approves that the president and/or senior vice president for Business and Finance be authorized to enter into professional services contracts and/or enter into construction contracts for the projects listed above in accordance with established university and state of Ohio procedures, with all actions to be reported to the board at the appropriate time.

(See Appendix LXI for background information, page 1238)

\*\*\*

#### APPROVAL FOR ACQUISITION OF UNIMPROVED REAL PROPERTY

Resolution No. 2018-107

# LOCATED AT STATE ROUTE 161 AND HAMILTON ROAD IN FRANKLIN COUNTY. OHIO

Synopsis: Authorization to purchase approximately 31.59 acres of unimproved real property located at the southeast corner of State Route 161 and Hamilton Road in Columbus, Franklin County, Ohio, is proposed.

WHEREAS the property is located at the southeast corner of State Route 161 and Hamilton Road in Columbus, Ohio; and

WHEREAS the property will be utilized for the construction of an ambulatory care facility, which is a key component of the Wexner Medical Center's strategic plan; and

WHEREAS the acquisition will be contingent upon the university obtaining entitlements allowing construction of medical facilities; and

WHEREAS it has been recommended by the Office of Planning and Real Estate, in coordination with the Wexner Medical Center, that the university purchase the land; and

WHEREAS funds for the acquisition will be provided by the Wexner Medical Center:

#### NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby approves the purchase of said property and that the president and/or senior vice president for Business and Finance be authorized to take any action required to effect the sale of the property and to negotiate a purchase contract containing terms and conditions deemed to be in the best interest of the university.

(See Appendix LXII for background information, page 1242)

\*\*\*

#### Mr. Shumate:

May I have a motion to approve? A second? Will the secretary please call the roll?

Upon the motion of Mr. Smucker, seconded by Dr. Lancaster, the Board of Trustees adopted the foregoing motion with 13 affirmative votes, cast by trustees Mr. Shumate, Dr. Reid, Mr. Jurgensen, Mr. Kellogg, Mr. Smucker, Ms. Krueger, Mr. Gasser, Mr. Porteus, Mr. Fischer, Dr. Fujita, Mr. Stockmeister, Dr. Lancaster and Mr. Moseley. Mrs. Wexner abstained and Mr. Zeiger abstained.

#### Dr. Thompson:

Motion carries. Mr. Chairman.

#### Mr. Shumate:

Thank you. It is now my pleasure to hand the gavel to our new chairman.

#### [Mr. Shumate passes the gavel to Mr. Gasser.]

The next meeting of the Board of Trustees is Friday, June 8, 2018. Since there is no further business, this meeting is adjourned. Thank you very much.

Attest:	
Alex Shumate	Blake Thompson

Alex Shumate Blake Thoi Chairman Secretary

April 6, 2018, Board of Trustees meeting

(APPENDIX XLIV)

# **University Innovation Alliance**

An Overview of the UIA at The Ohio State University

Launched in September 2014, the University Innovation Alliance (UIA) is coalition of eleven large public research universities that share a commitment to increasing the number of first-generation, low-income and historically underrepresented students who graduate with bachelor's degrees while simultaneously improving learning quality and cost effectiveness. At its inception, the UIA pledged to graduate 68,000 additional undergraduates by 2025 with at least half of them being from low-income households, that is Pelleligible students.

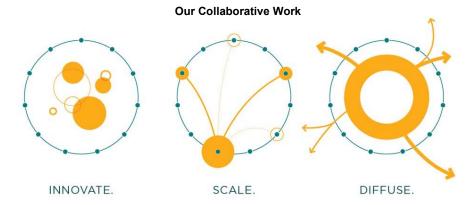
The UIA is supported by the ECMC Foundation, Ford Foundation, Bill & Melinda Gates Foundation, Great Lakes, Kresge Foundation, Lumina Foundation for Education, Markle Foundation, and Strada Education Network (formerly USA Funds).



#### **UIA Member Institutions**

- Arizona State University
- Georgia State University
- Iowa State University
- Michigan State University
- The Ohio State University
- Oregon State University
- Purdue University
- · University of California, Riverside
- University of Central Florida
- University of Kansas
- University of Texas at Austin

**UIA's Goal:** Eliminate race, first-generation, and income status as predictor of college graduation.







# **JIA Scale Projects**

#### Meet the UIA Team at The Ohio State University

#### President Michael V. Drake is Ohio State's representative to the UIA Governing Board.

- Julie Carpenter-Hubin\*, Assistant Vice President, Institutional Research and Planning
- David Graham\*, Assistant Vice Provost for Student Academic Success, Undergraduate Education
- Diane Corbett. Executive Director. Student Financial Aid
- Kay Halasek, Professor and Director, University Institute for Teaching and Learning
- Beth Hume, Vice Provost for Undergraduate Studies and Dean of Undergraduate Education
- Norman Jones, Interim Dean and Director, Ohio State Mansfield
- James L. Moore, III. Interim Vice Provost for Diversity & Inclusion and Chief Diversity Officer
- D'Andra Mull, Assistant Vice President and Dean of Students, Student Life
- Derrick Tillman-Kelly, UIA Fellow
- John Wanzer, Assistant Vice Provost and Assistant Dean, Undergraduate Education

Each year, the UIA engages in scale projects that have been tested—by at least one member institution—and shown to meaningfully impact the retention, persistence or graduation rates of first-generation and/or low-income college students. Below is a brief summary of scale projects and their implementation at The Ohio State University.

#### Year 4: Bridging the Gap from Education to Employment

To address the mismatch in perception between colleges/universities and employers, the UIA will engage regional and national employers and career services units on campus to redesign our support of students to ensure they have meaningful experiences prior to graduation and are able to articulate them to employers.

#### Year 3: Strategic Financial Interventions

Based on retention grants in use at several member institutions, the UIA has developed a grants program to provide assistance to students who are approaching graduation but face financial hurdles restricting their ability to enroll, persist, and subsequently complete their degree. Ohio State began awarding Buckeyes Finish Strong Completion Grants in the Autumn 2017 semester.

#### **Year 2: Proactive Advising**

"Monitoring Academic Analytics to Promote Student Success" is a 10,000 student randomized control trial that seeks to validate the effectiveness of proactive advising in increasing retention and graduation rates for low-income and first-generation colleges students funded by the US Department of Education's First in the World grant competition. When launched in Autumn 2016, nearly 1,000 Ohio State students were enrolled in the study from the Columbus and four regional campuses.

#### Year 1: Predictive Analytics

OnCourse is Ohio State's Student Success Platform designed to provide more information, more readily to various campus constituencies to support undergraduate student success. Powered by EAB's Student Success Collaborative Campus platform, OnCourse provides academic advisors with a dashboard of information about students' current progress to degree as well as a centralized communication, scheduling, and documentation system to support academic advising, tutoring and other university support services.

#### Year 1: UIA Fellows Program

Designed to create additional institutional capacity to support implementation and scaling of student success initiatives at each member campus, the UIA Fellows Program provides funds to support hiring an early-to-mid career professional to staff UIA-related efforts.



<sup>\*</sup> Ohio State liaisons to the UIA

(APPENDIX XLV)



# Student-Athlete Support Services Office (SASSO)

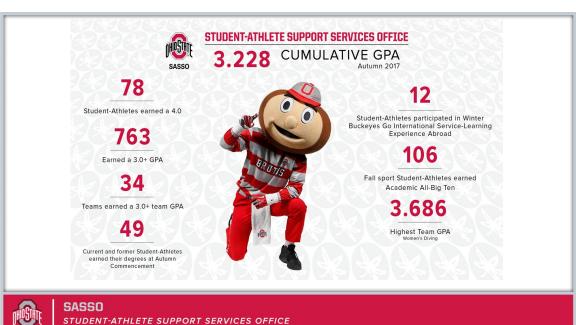
David L. Graham, PhD
Assistant Vice-Provost Student Academic Success



# By the Numbers

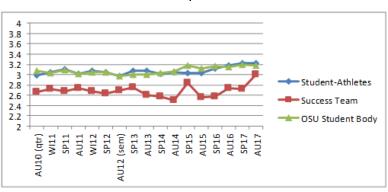
- 2016-17 Highlights
  - 86% with a cum GPA of 3.0 or higher
  - 236 Graduates (17 Degree Completion)
  - 31 participated in International Service or Education Abroad
  - Top 5 majors: Sport Industry, Communication, Finance, Biology, and Psychology





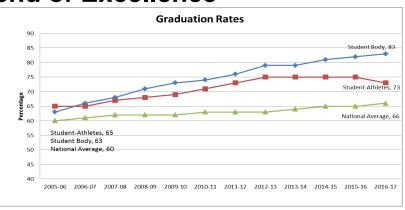
# **Trend of Excellence**

**GPA Term Comparison** 





# **Trend of Excellence**





# **The Degree Completion Program**

- Established in 1994 under the direction of the Department of Athletics.
- The ultimate goal of the Degree Completion Program is to provide academic and tuition support to former Ohio State student-athletes who left the university without completing their degrees.
- 187 former student-athletes have graduated through this nationally recognized program.



#### (APPENDIX XLVI)

THE OHIO STATE UNIVERSITY
OFFICIAL PROCEEDINGS OF THE
TWENTY-FIFTH MEETING OF THE
WEXNER MEDICAL CENTER BOARD

Columbus, Ohio, April 4, 2018

The Wexner Medical Center Board met on Wednesday, April 4, 2018 at the Richard M. Ross Heart Hospital in Columbus, Ohio, pursuant to adjournment.

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Minutes of the last meeting were approved.

Dr. Thompson called the meeting of the Wexner Medical Center Board to order on Wednesday, April 4, 2018 at 9:00 a.m.

Present: Leslie H. Wexner, Janet B. Reid, W. G. Jurgensen, Cheryl L. Krueger, Abigail S. Wexner, Stephen D. Steinour, Robert H. Schottenstein, Alex Shumate, Michael V. Drake, Bruce A. McPheron, Michael Papadakis, K. Craig Kent, L. Arick Forrest, David P. McQuaid, Mark E. Larmore, Andrew M. Thomas, Elizabeth O. Seely, Susan D. Moffatt-Bruce, Mary A. Howard, William B. Farrar, Martha C. Taylor and Amanda N. Lucas. David B. Fischer was absent.

#### Dr. Thompson:

I'll convene the meeting of the Wexner Medical Center Board. I will note that a quorum is present. In order to conduct the business of the meeting in an orderly fashion, I would ask any sound on cell phones and other devices be turned off at this time. I would ask that all members of the audience observe rules of decorum proper to conducting the business at hand. First item on the agenda would be the minutes of the January 31, 2018, meeting of the board. They were distributed to all members. If there are no additions or corrections, the minutes are approved as distributed. Mr. Wexner, I turn it over to you and Dr. Drake for the next item on the agenda.

#### Dr. Drake:

The next item is Teaching and Learning: Medical Education and Service. Dr. Kent?

#### Dr. Kent:

Thank you. As you know, we always begin our meeting by highlighting a fantastic program that we have at the Wexner Medical Center, and I'm really excited about today's presentation. The theme of this board meeting is Teaching and Learning, and when you think about medical school, you imagine a classroom where a student learns anatomy and physiology or a hospital or ambulatory center where a student learns clinical care. But in today's world, being a medical professional goes beyond this — way beyond the health of an individual patient. Health care providers today have a responsibility to their community because we all know that a healthy community leads to healthy patients. So, in the College of Medicine at The Ohio State University, we teach our students how to support the health of their community. We have specific curriculum designed for this purpose. Medical students are asked to participate in community service curriculum that includes 30 hours in the first year of medical school, and then an additional 30 hours in the second year of medical school. Many of these students continue on in the third and fourth years of medical school with these initiatives. In fact, students from all of the health professional disciplines provide community service, including those in physical and occupational therapy.

Through our curriculum in the medical school, collectively, our students provide an amazing 20,000 hours of community service each year. That's an incredibly impressive number. The curriculum calls for our students to develop and implement specific health initiatives to assist underserved populations at community sites throughout Columbus and the state. On average, our medical students develop and participate in 30 community projects each year. Around the table, you have a booklet that shows all of the initiatives we developed last year and this year, a total of 60 different initiatives. These projects range from programs that target childhood obesity to creating paradigms

that allow seniors to better navigate a very complex health care system. Through these efforts, our students touched over 9,000 individuals in the community each year. Again, an incredibly amazing number.

We have with us today four of our students who are eager to tell you about their projects, their teams that they've created and how they participated in the medical school curriculum. Please give a warm welcome to our students Kyle Smith, Grace Lartey, Jaron Hansen and Lauren Chen. Thanks for coming.

#### Mr. Smith:

Good morning, everyone. My name is Kyle Smith. I'm a third-year physical therapy student here at Ohio State. I'm here today to highlight the Ohio State Student Therapy Clinic, which is a pro bono therapy clinic run by physical therapy students under the supervision of PT faculty. All of our experiences in the clinic are part of the physical therapy service-learning curriculum. How the clinic actually functions is second-year students are the ones actually treating patients in the clinic, while third-year students provide supervision and guidance during those treatment sessions. So this really provides a great opportunity for second-year students to get hands-on clinical experience, while giving the third-years a chance to take on more of a mentorship role and see patient care from a different prospective. The overall mission of the clinic is to improve lives by providing pro bono therapy services to those who are underserved and underinsured around the Central Ohio area. The clinic opened in 2015, in collaboration with PrimaryOne Health, and is located on Parsons Avenue. Being located in that area gives us a great opportunity to reach out to a wide variety of individuals around Columbus from different socioeconomic and educational backgrounds. Many of these individuals don't have the means to obtain sufficient health care or maybe have run out of therapy visits through their insurance companies. That's where we can step in and provide an avenue that may otherwise not be available to these patients.

During my second year there, I was lucky enough to work with a 45-year-old gentleman who was eight months out from having a stroke. He had used up all of his therapy visits through his insurance company, but was still really motivated to get better. He was living by himself, needed a cane to get around, had difficulty getting up and down his stairs and carrying his groceries, and was really struggling to complete all his daily activities. We were able to work with him for the entire year and saw great improvements. By the end of the year, he no longer needed his cane in his house, and he felt comfortable and safe with all of his daily activities. This is just one example of the kind of impact we can have on those who come to see us at the clinic, and it really provides us with a great feeling that we are reaching out to help the community.

This year alone, we provided close to 200 therapy sessions, which is a number that has grown each year of the clinic's existence. For me, personally, I'm just really thankful that Ohio State allows us, through our PT program, to be a part of this clinic and it has inspired me to continue treating this patient population going forward, as I graduate and move forward in my career. Thank you.

#### Ms. Lartey:

Hello everyone, my name is Grace Lartey. When I was 15 years old, back in Ghana, my mom told me the story of how she lost my twin brother seven months into the pregnancy, due to pregnancy-related complications for which she could not access health care right away. While this story encouraged me to go into health care, it also points out the fact that due to lack of access to health care, as well as cultural disparities, people of African descent have trouble accessing health care and do not usually get health care until it is a matter of life and death. As a result, when I moved to Columbus, I resolved to — through health care — do something about access to health care. I was fortunate enough to become a part of an organization known as Sisters Across Borders, where the main aim was to bridge the gap and health disparities through health care as well as screening for preventative medicine. As a medical student, I was fortunate enough to be in a place like Ohio State, which gives us the opportunity to impact our society through the community health education part of our curriculum.

As part of that, some of my classmates and I went and worked with Sisters Across Borders in the Ghanaian community here in Columbus. We were interested in cardiovascular disease, which as you may know is the No. 1 killer of people of African descent here in the United States. We organized screening programs where we screened for hypertension, high blood pressure and high blood glucose, which predispose people to cardiovascular disease. We also provided education on diet and exercise aimed at helping them improve their risk factors. Through this, an old lady who had recently emigrated from Ghana was able to find out that she not only had high blood pressure, but also had developed diabetes, having gone from being very active on her farm in Ghana to becoming sedentary while taking care of her grandchildren. We not only screened her for those things, but also got her connected to the health care system to prevent the further complications associated with her disease.

As a result, we were able to reach quite a number of people. This goes to show that people in these neighborhoods, as well as such backgrounds, actually do benefit a lot from programs such as the one that we organized, and I look forward to continuing this throughout my medical career. Thank you.

#### Mr. Hansen:

Hello, my name is Jaron Hansen. I am also a second-year medical student here at The Ohio State University College of Medicine. Like Grace, I had the opportunity to be involved in a community health education project. In 2013, a cooperative that included the city of Columbus and The Ohio State University known as Partners Achieving Community Transformation found that less than 60% of East Side resident adults achieved post-high school education, and as a result had the accompanying health and socioeconomic results. In 2015, this same cooperative launched a program known as Health Sciences Academies. This was implemented in seven East Side schools and with a specific focus on preparing graduates for post-high school education and careers, especially in the health sciences and health industries. This is a really exciting program designed to gear them toward these careers and provide some success in their lives. Our group had the opportunity to work at East High School and we went to the newly founded board there and proposed a program where we would bring young professional students from the health sciences to meet with these students. We met with about 20 students over about four months and provided some hands-on activities and interactive experiences with them.

For example, we shared all the instruments doctors use during a physical exam and for taking vitals and blood pressure, and they loved getting their hands on those tools and doing something they probably never thought they could do. In the beginning, a lot of the students weren't that interested, but as we were able to mentor them and be there for them, their attitudes really changed. They expressed a lot of confidence that they could achieve those kind of professions, that they could change their lives and do something like this. They were asking very interesting questions and type of questions like, "What can I do now to prepare? How will I know what would be a good fit for me? What can I do to get some help financially, to get some help academically, so that I can do this and be like you guys?" It was really inspiring to me and I'm happy that OSU gave me the opportunity to be involved in this community. As a future physician, I am very excited to take a more active role in my community and in shaping future health professionals that may just need an encouraging role model to succeed. Thank you.

#### Ms. Chen:

Hello, my name is Lauren Chen. I'm a second-year medical student at The College of Medicine here at OSU. Last summer, I had the opportunity to work on a community health project in collaboration with a nonprofit called Healthy Asian Youth. This program is an after school and summer program that provides a safe and environmental education for children from low-income families in primarily Cambodian communities around Franklin County. Since undergrad, I've really gotten to know these kids from my time spent as a teacher for this program's summer camp, and I realized that many of them lacked access to quality health care and education, and this puts them at a higher risk of developing unhealthy lifestyles and, later on, health complications.

Coming back as a medical student, one of my goals was to tackle these obstacles by implementing a series of workshops focused on nutrition, mental wellness, physical fitness and substance abuse prevention. Our data has shown that this initiative was successful and led to real behavior changes among the kids in the form of decreased amount of TV watched, decreased consumption of sugary beverages and an increase in reported amount of exercise. But, more so than the data, one moment that I want to leave with you guys from my experience was our workshop on mental wellness.

A group of the little Cambodian girls at the camp had recently lost their 12-year-old brother to suicide. When we did our workshop on mental wellness, we had all the kids practice self-relief strategies in the form of yoga, making stress balls and passing along written compliments to each other. At one point, we allowed all of the kids to share their experience with stress at home, or in the family, or at school. At that point, I thought the girls were really engaged in the activity and it was a very cathartic moment for them.

After the summer, our group wanted to continue building our relationships with the almost 80 kids at the summer camp, so we were able to establish a medical students' club and I'm happy to report that we've not only been able to continue our fun activities with the kids, but we are able to set up a health screening event and distribute personal hygiene kits to over 50 kids and their families. So, in the end, I am grateful and I'm proud to be part of a medical school that has afforded me the opportunity to continue my passion for caring for the kids that I love, and helping them grow up to become advocates for their own health. Thank you.

#### Dr. Kent:

Thank you to all of you. I just want to re-emphasize a couple of statistics. The first is 20,000 hours of contribution by our students to the community each year, and 9,000 individuals in the community that are touched by these students every year. It is really impressive. I also want to recognize Deb Larsen and Dan Clinchot who are the genesis behind the curriculum that's been developed. Dan, would you like to say a few comments here as the person who really created this program and has moved it forward?

#### Dr. Clinchot:

Members of the board, I just want to thank you for having us here. As you can see, and in your book, if you look at some of the titles of the amazing things that our students do — they are a powerful workforce to fight against health disparities. They work with community agencies throughout Franklin County and southern Delaware County to really try to impact the lives of those less fortunate, and they make a big difference as evidenced here because we require them in the curriculum to actually study the impact of their efforts. Across the College of Medicine and the School of Health and Rehabilitation Sciences, we really, I think, make a huge difference for the community and instill that in the graduates that we have. Thank you.

#### Dr. Kent:

Thanks, Dan. We have time for a few questions.

#### Mr. Schottenstein:

I have a comment and a question. My comment is — these are four of 60 initiatives that represent outreach into the community; I've been involved at Ohio State for a long time, and I had no idea we were doing this. It's absolutely extraordinary. We talk about the importance of telling our story and properly marketing our achievements within the greater community, and I think that there's certainly a place for this to be told. I think it's just absolutely wonderful. The question I have is how common is this in colleges of medicine across the country? How old is this program here at Ohio State? You mentioned several years ago that we really ramped this up. If we looked at other benchmark institutions and their respective colleges of medicine, would we find this kind of outreach and engagement by the college?

#### Dr. Kent:

Great question. Dan, do you want to take that?

#### Dr. Clinchot:

There is no doubt, when you look at colleges of medicine, most have a requirement for volunteer activity. This is very different. This is service learning, where the students actually have a curriculum that supports it. We initiated this in 2012, and we were actually one of the leaders in this community health education project back then. We've produced workshops nationally to show other schools how to do it, and I would say there's no other school that has a program like this, that requires as many hours over two years to work through the entire process with a community agency. So we actually are bringing free work to those agencies to impact the health care of the people they serve.

#### Dr. Kent:

Dan is being only slightly modest. I think we're the national leader. It's something that's been very creative and I think we've been able to diffuse to medical colleges throughout the country. This is a really fantastic place to be.

#### Mr. Schottenstein:

It's outstanding. It's just really terrific.

#### Dr. Wadsworth:

Those were four great presentations, thank you, and they were all quite different. The education one, in particular, I'm really taken by because sometimes a simple intersection with somebody that introduces the vision for what could be is a turning point. My question is, as you meet all these people who need help, there must be occasions when great complexities arise as to the backgrounds they're in, the families they're in, maybe drugrelated or violence — how do you deal with that kind of additional issue?

#### Ms. Lartey:

At least for the project that we were engaged in, it was not just a collaboration between Sisters Across Borders and The Ohio State University College of Medicine, but it also connected health professionals of African descent to those communities. So those people were still available to them. We connected them to the health care system through those people, as well as organizations like the Central Ohio Diabetes Association, who gave us the supplies as well as reached out to the people who were found to have some of these conditions.

#### Dr. Wadsworth:

The reason I ask is, we hear these tragedies about families and homes that nobody's aware there's a problem and it's just something to be aware of and how far do you carry that responsibility?

#### Dr. Kent:

The students are connected to the social network of Columbus and the communities that they're involved with so ...

#### Dr. Wadsworth:

So there are places to turn.

#### Dr. Kent:

When they exit, there are others that continue on with the care.

#### Dr. Clinchot:

That's exactly right. For example, the current first-year students are working on some opioid projects with the Columbus health department. What happens is, as the students

interface, they then know how to access free or low-cost resources and how to refer those individuals. So, it's not as if the students are out there alone on an island, they have their list of people who will help them.

#### Dr. Wadsworth:

Terrific stuff. That's great.

#### Dr. Kent:

Other questions?

#### Mr. Steinour:

Just one if I could? Do we sustain involvement over the years with these organizations or do you try and rotate with emerging needs?

#### Dr. Clinchot:

The specific criteria for these projects is that the students have to create it in a way that is self-sustaining by the actual agency itself, or something that becomes an ongoing project for students that they would pass on to the next year of students. We have a combination of both — some that the agency itself can continue to run; some that we commit our students will pick up the project, like the Health Sciences Academies.

#### Mr. Steinour:

It's remarkable work. Thank you all very much.

#### Dr. Kent:

Could I have another round of applause for Dan, Deb and our students?

#### Ms. Hill-Callahan:

Another way that we showcase the wonderful things that are happening at the Wexner Medical Center is by telling the story of our researchers. WexMed Live is a TED Talk-style event that the Wexner Medical Center does in partnership with the Alumni Association, and it's our opportunity to bring the Wexner Medical Center on the road to the community, to our supporters and to our friends. We've held five events, one in Columbus, Cleveland and Cincinnati and two in Naples. We've trained 17 faculty in this TED Talk style and we have shared 10 areas of research expertise. We wanted to bring a bit of WexMed Live to you today, so here is a quick snapshot.

#### Video Plays

What you may not have gotten from that video is the energy in the room from not only the presenters, but also the individuals who were in the audience. Following the talks, guests are invited to discovery areas where they are able to have a little bit of food and continue the conversation with the researchers.

I wanted to share with you one quick story about Dr. Ian Valerio. He is one of our surgeons. He is also a commander with the United States Navy Reserve. He had two tours in Afghanistan and he absolutely wowed the crowd in Naples. He was talking about his research and how he was inspired by our wounded warriors, and he shared stories through his research, about how patients are able to jump, walk and dance, and the crowd leapt to their feet when he spoke and were truly, truly inspired. It really sent a message to all of us that people need to know the story of our researchers at the medical center. To date, 800 individuals have attended these events. We've had 1,000 views on Facebook Live. We've been able to get our brand out to different constituencies that we wouldn't normally be able to reach. One thing that surprised us is how excited the faculty are to be trained in this new way of presenting and how, in the beginning, they're a little like, "That's not normally how I present my research," but by the end, they are grateful.

My call to action to all of you is that we are bringing WexMed Live to Columbus on June 13. There will be four presenters at the Ohio Union. Save-the-date cards have gone out, and we hope that all of you will be there.

Now, I would like to give the mic to Dean Kent to make a special announcement about a couple who has taught us a lot about many things, including philanthropy.

#### Dr. Kent:

Thank you, Patty. Today, I'm going to introduce a couple that I couldn't be more grateful for what they have given to our university and our medical center. More than 6 million Americans live with heart failure and about 8 million Americans have irregular heart rhythms. Patients with heart failure often have arrhythmias, and people that have arrhythmias have heart failure, so the treatments are really complex because of the interaction between these two diseases.

At Ohio State, we have probably one of the best electrophysiology programs in the country. It's one of the highest-volume programs and it's really fantastic. We also have one of the best heart failure programs in the country. It's nationally known and has had an incredible amount of innovation. We leveraged the strength of these two programs and created a unique, one-of-a-kind center that's focused on clinical care and research, and it intersects these two diseases. We believe that with this intersection and this center, which combines research in these two diseases, we'll be able to make dramatic discoveries. It's my pleasure to share with the board today a transformational gift by two generous donors whose relationship with The Ohio State University and the Wexner Medical Center can be accurately described as family.

They've become familiar faces to many of us, must notably Dr. Ralph Augostini, Dr. Peter Mohler, Dr. Tom Ryan, Dr. Bill Abraham, as well as myself. I'm pleased to introduce Corrine and Bob Frick and announce the creation of the Corrine and Bob Frick Center for Heart Failure and Arrhythmia. Bob and Corrine, would you stand up and wave to everyone?

Thank you for that applause, but I'm not done yet. Over the past year, I've come to know Bob and Corrine, and if there is anything I can say about these two individuals, it's that they are incredibly humble. The gift is being made from their hearts and with their belief that no patient should die of heart disease. This extremely generous gift in the amount of \$18 million will move the needle in so many ways. The mission of the center that they've created is to provide collaborative, innovative and coordinated clinical care,

research and education in the specialties of heart failure and arrhythmia. The funds will be used to support a large and diverse research laboratory with innovative technology. Three new endowed chairs will be created — the Corrine Frick Research Chair in Heart Failure and Arrhythmia, the Bob Frick Research Chair in Heart Failure and Arrhythmia, and the Bernie Frick Research Chair in Heart Failure and Arrhythmia. Last year, with the support of this gift, we opened the Frick Hybrid Electrophysiology Suite, which is one of the only dedicated hybrid operating rooms in the nation. And for those of you who don't know what a hybrid operating room is, in this procedural room, you can do a catheter-based intervention to affect an arrhythmia at the same time that you do open heart surgery. In fact, we've done quite a number of these innovative procedures since the opening of the room, and we're one of the leaders in the nation in this type of therapy.

Bob's late brother, Bernie — one of the research chairs is named in his honor — died of sudden cardiac arrest at the age of 60, after battling issues with arrhythmia for years. Bernie was an educator, adored by his family and missed dearly by his wife, Diane Frick. Diane and her four daughters are with us today as well as Amy, Bob Frick's daughter. Would all of you please stand and be recognized?

The Bob and Corrine Frick Center for Heart Failure and Arrhythmia will be transformational in advancing the care of patients with cardiovascular disease. As a result of this gift, I'm confident that progress will be made in the treatment of these two very severe conditions. Bob and Corrine, you're creating a future of cardiovascular medicine that will improve people's lives. People will live to see tomorrow because of the treatments that you've made possible. They will live to see their children and their grandchildren grow up because of the innovation that you created. The legacy you are leaving is truly remarkable. So, please join me in thanking Corrine and Bob for their generous philanthropy and their tremendous contributions to The Ohio State University.

#### Dr. Drake:

Thank you very much. We are fortunate to have a chance to work with many people in our lives and we are fortunate to have many supporters of this university. But I've had a chance to spend many hours with you, Bob and Corrine, over the last couple of years, and one of the things that touched me most about your support is that you are real people. You have worked to put yourselves in the position that you are in, and you have created the opportunities you have had to be able to contribute in the way that you do, by your own focus, work and values over the decades. I appreciate that very much. I also appreciate the thoughtfulness of your own research and how you have looked into what we can do as a university to make a difference. The pointed nature of your gift has identified and focused on areas where we can really make that marginal progress and take the step from A to A-plus. The reason you focused on this area in which to make us better is that you understand and can see the effect that this will have on people far beyond our vision, far beyond our horizon. There will be many, many thousands of people in our community and across the country who benefit from your focus and your hard work, your dedication and your generosity, and I want to say — on behalf of all of us - how much we appreciate your support and look forward to working with you for many years to come. Thank you very much.

Now, we have a report on the James and the Comprehensive Cancer Center. We will start with Dr. Farrar.

#### Dr. Farrar:

Thank you, Mr. President. I appreciate the opportunity to make some brief comments on what's been happening at the James over the past few months, and I'll be followed by Dr. Pollock. One thing that Dr. Pollock and I have tried to do since moving into our positions is in regards to communication. Both of us have had numerous meetings with not only faculty, but staff around the James, to see what issues we need to address in order to improve in the near future. We've also had great communication with Mr. McQuaid, Mr. Larmore, Dr. McPheron and Dr. Kent. We meet on a regular basis and it's been a pleasure getting to know them, but also getting to know and identify areas that we can cooperate and streamline operations for the entire medical center. Personally, I've been very pleased and honored to take part in those meetings and communications.

In regards to hospital operations, just last month, the James was awarded Magnet designation for nursing. This was the second time; the first time was in 2013. This is the American Nurses Association's highest and most prestigious distinction that a health care organization can receive for high quality of care, nursing excellence and innovation, and nursing practice. We turned in all of our required information last August, and this January we had a site visit from the Magnet team and we really just blew them away. They could not imagine how caring our nurses were to the patients and their families. They were impressed that 92 percent of our nurses had a BSN. And our nurses, over the past four years, published in 64 publications and they just raved about all of those attributes. Only 8 percent of hospitals obtain this designation, so we're pleased that the James was able to re-get this award.

Along the same line, our recent patient satisfaction scores have been outstanding. Our inpatient score was 98 percent, our ambulatory score was 94 percent, and I have to throw in mammography since I'm close to the Breast Center, and they had a 99 percent satisfaction score. It doesn't take many negative comments to bring down those numbers, so this speaks highly not only of our nursing staff, but also our faculty that take care of the patients in the James.

The other thing to talk about is our clinical trials. We have a great clinical trials team led by our Clinical Trials Office. This year, it appears that 19 percent of our patients will be put on clinical trials. That may not sound like much, but the national average is between 4 percent and 5 percent, so we do a fantastic job of putting patients on clinical trials.

The other thing that I want to mention, before turning it over to Dr. Pollock, is many of you have probably heard of our effort in digital pathology. Dr. Parwani was hired in 2015 from the University of Pittsburgh to head this program with Inspirata, the company that helped developed a lot of the scanners. Digital pathology is converting traditional glass slides into high-resolution digital images. So in the near future, pathologists will not be looking at the conventional glass slide — it will be on a computer. They call it the pathology cockpit, where they'll have a screen with the patient's information and the digital pathology and different diseases, molecular studies and everything.

This digital pathology makes turnover time a lot faster, so you may not have to wait six or seven days to get a report back, it may be back within 48 hours. It's also easy to get molecular studies. A good example is what's called the AQUA score, which is a test we use on breast cancer patients once they have their surgery to determine if they will benefit from chemotherapy. It takes three weeks to get that test back. If you're a patient waiting to know if you're going to get chemotherapy or not, that's a big deal. With this

digital pathology, they feel that within a very short period of time we'll be able to do a very similar study with the molecular pathology and molecular studies, and we'll have that same information in two to three days. So that's just the type of research that's going on, and you're going to hear more and more about digital pathology in the coming years. It's really going to make an impact on how we treat patients and how effectively and quickly we can treat patients.

Just a couple other things. We're working very hard on two items — a strategic plan, which is occupying quite a bit of our time, as well as a West Campus ambulatory building. We're working on finalizing a lot of things for that. So there's a lot of activity going on at the James. I also just want to point out our development team. I was able to participate in the Buckeye Cruise for Cancer, which happened about two months ago, and it was a very successful cruise. Last year, they broke a record, raising \$2.5 million on a five-day cruise, which is pretty outstanding. This year, they raised \$3 million, so every year it goes up and I think that speaks highly of our development team, which really put on a fantastic cruise. As you know, Pelotonia, is up and running. I'm sure we're all already signed up for Pelotonia, but if you haven't, please do. Also, our development team recently participated and attended the National Association of Cancer Centers Development Officers' meeting and our development team was recognized as having a banner year last year in terms of raising money. The final numbers aren't out yet, but the thought is that we'll be among the top five cancer centers in raising money, so they just continue to do a fantastic job. I'll quit there, my five minutes is up. Now, I'll turn it over to Dr. Pollock.

#### Dr. Pollock:

Bill, thank you for those kind words, and Mr. Wexner, I appreciate the opportunity to provide the board with a brief update on some of the things that have been happening in the cancer center itself. A very careful fund flow analysis was conducted over the past several months to look at how funds potentially flow from the James Cancer Hospital to the cancer center for support. It was certainly a learning experience and I appreciate Dr. Drake and Dr. McPheron conducting this. It enabled us to ultimately learn much about how this can be handled going forward, and it resulted in a very strong package of resources that Ohio State has offered in support of the cancer center and its research programs. I'm grateful to both of you for having conducted this and for making these resources available.

It is always a little bit tricky inheriting an administrative structure, so we have had to prioritize what our most important tasks are. We have created a committee within the cancer center that is aggressively pursuing the Cancer Centers Core Grant renewal, which will be site-visited in 22 months.

There are two strategic plans that are being developed. One is the larger university effort led by Gail Marsh. And then, one is in a little bit more granular detail for the cancer center itself over an even longer timeframe. We've created the infrastructure to do that analytic work and ultimately produce the written documents that demonstrate our conclusions. We have also completed the recruitment of our external advisory board. This is a 12-member group that provides us with direct advice on an annual visit basis, as well as in between. Ten of the 12 members are directors of other National Cancer Institute Comprehensive Cancer Centers including for the first time ever, the president and CEO of Sloan Kettering, who is graciously giving his time to be of help to us.

A number of faculty recruitments involving several colleges have been launched and some have been concluded, including the College of Engineering, the College of Pharmacy, the College of Veterinary Medicine, the College of Nursing and most importantly, the College of Medicine. I want to give Craig [Kent] and his associates credit. We have worked out very tight communication mechanisms. We are back and forth in person and with email exchanges on an almost daily basis to keep tabs on the many recruits that have shared interests that straddle the cancer center and the College of Medicine. This has been very, very important, not only in the retention of some very prominent senior faculty, but in terms of planning for recruitments going forward. Craig, I really appreciate it, it has made the job a lot easier, certainly.

Administratively, as Bill [Farrar] alluded to, we have created a new entity. We call it the G8 because there are eight of us and it straddles both the cancer center as well as the James Cancer Hospital. We meet every Friday morning for two hours to look strategically at issues and how we can best position both of these now separated administrative entities on behalf of the cancer program as a whole. We've also created a cancer center executive committee that meets for an hour before the G8 meetings, so Friday mornings are busy with administrative meetings.

Several new programs are now in the process of being developed, including a cancer immunotherapy center and a cancer engineering program that will pull on not only the College of Medicine but also the College of Engineering and others of the 11 colleges with which the cancer center has active faculty sharing in collaboration. I would like to acknowledge that the James Foundation Board has made a very generous commitment to helping fund the cancer immunotherapy effort going forward. So, it's been a busy couple of months, but I'm deeply enjoying the opportunity. I very much enjoy reporting to Bruce [McPheron] as my boss and Dr. Drake at the next level up and this has actually been a lot of fun. Thank you very much for the opportunity.

#### Dr. Wadsworth:

Just as a question of curiosity. You know that digital image processing, image recognition, automated counting has been around quite a while. I was wondering what the particular challenges are with the molecular study that you're researching — is it irregular-shaped statistics?

#### Dr. Farrar:

I'm not sure. Right now, they have gone back and copied or scanned about 500,000 slides on 39,000 patients.

#### Dr. Wadsworth:

It's not a question of starting or ... it's not the process of doing the imaging, it just hasn't been addressed up to now?

#### Dr. Drake:

A lot of it, Jeff [Wadsworth], has been moving from the 20th to the 21st century. The technology has been there for quite a while in different ways. But adapting it to pathology slides, getting the right slide collection, making those things available in a way that an average pathologist can use them in his or her practice on a regular basis, has really

been a change in the culture. What made you a great pathologist in the past was what you carried in your brain and how you could look at the slides faster and better than somebody else. Now what you can do is have — on digitized slide banks — the best examples in the world of what you want to look at, and compare those side-by-side with the material from which you wish to make the diagnosis. And you can have the most recent studies nearby to help you in choosing the right diagnosis and ways that you might guide the therapy going forward. So it's pulling all of the things we have together into a place where the pathologist has them right at his or her fingertips, and then it's constantly updated — like a Google Maps sort of thing — that lets you know which way you can move forward fast.

#### Dr. Wadsworth:

So that's consistent with other histories, where the human ability to recognize something ... it has taken a long time for the digital process to accurately repeat that.

#### Dr. Drake:

Right. So there is the concept of the robotic system being able to get a pretty good idea, but then layering over that the aspects of judgement and nuance, which are the aspects that the pathologist offers.

#### Dr. Wadsworth:

Thank you.

#### Dr. Farrar:

It has become a very good tool for helping other hospitals, not only around this area, but also across the country and internationally. It used to be if a pathologist in China couldn't identify something, and there's an expert in the United States, they'd have to mail the slides over. Now, in a matter of minutes, the pathologist can look at the slides on the computer, call that person back, and have a conversation to make a diagnosis a lot quicker.

#### Mr. Schottenstein:

I have a question for Dr. Pollock. First of all, both reports were great reports. Your leadership is very much appreciated on all fronts. This is a governance question about this external advisory board you mentioned that's in place for the comprehensive cancer center. Briefly, could you explain to us, did we have that before? And if not, why not, and what will be the role of this board? How do you see them functioning going forward? What sort of a big picture will they play in the journey of our cancer center?

#### Dr. Pollock:

We did have such a board before, but there's always turnover in the membership. About two-thirds of the members of the board needed to be replaced. They function as a peer group, if you will, to give us very specific advice, particularly about the Core Grant and how we should position programs within the Core Grant. But also, it's an informal network. We have many questions that will come up where we want input from other cancer center directors about some of the day-to-day operational issues, strategic

issues and interfacing inside the beltway. Those types of questions become very important. So having a ready group of peer experts who you can turn to for advice, and who turn to you for advice, positions us as an institution with a cancer program that has very high national visibility.

#### Mr. Wexner:

Everyone, I think, communicates the appreciation of the university and the medical center board. Both of you came into a very tense situation, and the fact that you both understood the university hospital system and the cancer hospital, and in such a short period of time had grabbed it by the horns and are leading so effectively, is very appreciated. The quality of your leadership is most appreciated, the quality of your report is appreciated, and anything that we can do to help you be more effective, speaking for the board, we are at your disposal. So, Bill and Raph, thank you very much.

Dr. Pollock:

Thank you.

Dr. Drake:

Thanks very much, appreciate it. College of Medicine, Dr. Kent?

#### Dr. Kent:

I'll begin by expressing my enjoyment and appreciation in working with both Bill and Raph. It has been tremendous. We have these Thursday afternoon meetings and we get so much accomplished, it's incredible. I get great advice about the college and I'm able to provide insight to the cancer center, and it has been a really collaborative relationship, so thank you both for allowing that to happen.

For the College of Medicine report, I have a couple of things. The first is that you remember, probably several board meetings ago, Dr. Fujita asked, "What do you do well at the Wexner Medical Center?" He asked us to come up with a list of our research programs that were nationally known, visible and in our top group. At our last board meeting, we handed out that list, and I hope you've had a chance to review and see that we're excelling in a number of really fantastic areas. For this board meeting, we created a separate list, which is of our top differentiated clinical programs, or what we'll call clinical programs of distinction. I think you all have this list in your board books. There's 14 programs, and I'm sure I'm in trouble with someone because you know there's one that I didn't include, so consider this a work in progress. As some of our other programs continue to grow and become nationally recognizable, we will certainly add to the list.

It was an enjoyable process to create this list. The first thing we had to do was create a definition of what we would think of as a clinical program of distinction, so we used a number of different criteria. The first is volume. One of the things that's very clear is the more you do of something, the better you are at it, and there are quite a number of different diseases and treatments that we have incredibly high volume. A second area that differentiates a program is one where you have a certain technical expertise. For example, our electrophysiology program, we do over 5,000 procedures a year, and our EP interventionists are extraordinarily talented and have better outcomes than the average interventionist just because of the high volume and the skill that they've created.

A third area that differentiates the program is the ability to integrate research, or clinical innovation, along with clinical care, and we do that very well and it's really a center point to many of the programs that we've included in the list. So, please have a chance to review the list, you know I'm available to have conversation about any of these programs, but we're very proud of all of these programs and the leadership that's been able to create this for the Wexner Medical Center.

Now I'm going to move on and tell you about one of those programs. At each of our board meetings, I like to feature one of our research or clinical programs. This time, I want to talk about our Robotic Surgery program. Innovation is a key part of our strategic plan, and robotic surgery is a very innovative technique that's being used at a number of centers around the country to provide a level of very differentiated care. There is no doubt that our robotic program at Ohio State is a national leader. You may or may not know much about robotic surgery, so we will play the video that will give you a sense of what it's all about.

#### Video Plavs

It's somewhat of an alien concept that the surgeon is not next to the patient, right? There's almost a Star Wars sort of element, moving the levers and the operation is going on maybe five or six feet away. As you can see, though, our surgeons do it very well. So why has robotic surgery been an advance? There are a number of different reasons. One is that with many types of procedures that the robotic surgeons perform, there are fewer complications, and the death rate is actually reduced in these kinds of minimally invasive interventions. A second reason is because it's less traumatic. The length of stay is reduced, the number of long-term complications is diminished and people can return to work at a faster rate and be able to resume their normal lives.

The other point that was alluded to in the video is that you can get into smaller spaces. If you could imagine operating on the larynx — that's the place right between the mouth and the trachea — and if you wanted to approach that from the mouth, it's pretty hard to get at, unless you have very, very fine instruments, which a robot provides. So our ENT surgeons, one is sitting next to me now, have become experts at laryngeal surgery using a robot, which really differentiates us nationally in terms of what we can perform.

If you look at our specific program at the Wexner Medical Center, we have a total of 40 surgeons that represent 11 different specialties that are involved in the robotic program. Two-hundred residents or fellows each year are trained by our robotic surgeons, so these people come from all over the country to learn these techniques. Over the last 10 years, the robotic surgery program has expanded into one of the highest volume programs in the country. In 2012, we did over 1,600 cases a year, which put us second worldwide. Over the past five years, that number has continued to expand, and now we do 1,900 robotic procedures at the Wexner Medical Center each year. Our current volume puts us in the top five of all academic medical centers in the country. Our surgical training program is best in class. In fact, every year we have several institutions, this past year it was Dartmouth and UCLA, that come to visit us and see how we train our surgeons.

We have research efforts that are ongoing. We're constantly trying to expand robotic surgery so that we can use it in other spaces and techniques and in different diseases. We're also in the process of developing new instruments and techniques for the existing procedures. In February of last year, OSU hosted a symposium called the Integration of

Robotic Surgery in Academic Medical Centers, and over 200 surgeons and administrators from various parts of the country came to Ohio State to learn how to be successful in robotic surgery. We are fortunate today to have the program's leader, Jeff Fowler. He is a professor in the Department of Obstetrics and Gynecology, and it's really Jeff's innovation and his 40 surgeons that have made this program tremendous. So Jeff, would you please stand and be recognized by the board?

That concludes my report, and I'm happy to take any questions.

#### Dr. Reid:

Robotic surgery is just amazing. You know, pretty soon, hips, shoulders and all that will be done through robotic surgery. But I know one of the research areas has been to try to get tactile sensation, so that when you're operating and moving those tools around, you can actually feel if a tumor is firm or soft. Are we doing that kind of research?

#### Dr. Kent:

Jeff, do you want to take that question?

#### Dr. Fowler:

Thank you, I appreciate that Dr. Kent. It's really a team effort. This type of complicated surgery requires a lot of support. The reason we're successful is a lot of experienced surgeons that are homegrown here and the teams that support them, and so that's what the program supports.

To answer your question, which is excellent, the visual enhancement in high-definition 3D really overcomes a lot of that lack of haptic feedback, which is the ability to feel. So you can see what you're doing and with experience, you can tell how hard you're pulling on things and whatnot. To your point about consistency of a tumor, and feeling that that still needs further development — each few years, there are progressive advancements in the technology, so we have increasingly better ability to perform more complicated procedures and have the tools that you're mentioning.

#### Dr. Reid:

Thank you.

#### Dr. Wadsworth:

I'm familiar with the da Vinci Surgical System. Do you have other machines? Are other machines starting to compete with the da Vinci, which has dominated the field, I think, for many years? Just curious about the competition space for developing new tools.

#### Dr. Fowler:

The only vendor for the procedures that Dr. Kent mentioned is Intuitive Surgical, which makes the da Vinci Surgical System, and they've been out since the late 1990s and the early 2000s. There's a lot of chatter or discussion about other big companies being out there, but we really haven't seen even their beta products yet. One of the big problems is that the individual robotic system that you saw is, it's not one patent, it's hundreds of

patents within it, so it's very complicated. So we don't have a competitor yet. It'd be nice as far as cost; it's a very expensive system. There are other robotic technologies used in medicine and orthopedic surgery for separate types of procedures or robotic-automated technology, you mentioned digital pathology. As far as the procedures that Dr. Kent was speaking to, it's Intuitive Surgical only.

#### Dr. Wadsworth:

I know they survived a class-action lawsuit last year through the claim that there were tiny metal particles that were moving around. That was a big case, but it's a wonderful machine and congratulations on having so many people involved in it.

#### Dr. Kent:

I do think it's a matter of time, though. There will be other technologies that come along.

#### Dr. Wadsworth:

I thought the Canadians were developing a competitor.

#### Dr. Kent:

Oh, I think there's a number of different innovations that are underway. I suspect within the next three or four years, it is Intuitive Surgical that we will see competition, which will be great because it will lower the cost. The machine we currently have, though, is tremendous as you can see from the results.

#### Dr. Wadsworth:

Yeah, and we were involved in the software development of the early machines at the Oakridge Lab, by the way.

#### Dr. Porter:

What we know with robotic surgery, too, is that it's not the robot. It's really the skill of the surgeon doing the procedure, and that volume matters in terms of outcome, right? So tell me about the credentialing process you have to assure that your 40 surgeons are doing a minimum number of procedures and becoming facile so that outcomes really do improve.

#### Dr. Fowler:

That's an excellent question. Nationally, that's a big issue and has been an issue of litigation either against the company or individual surgeons. So it is a big issue and a tough health system responsibility. Here at Ohio State we have specific credentialing criteria, even for the students that come into the room. We have credentialing criteria for the surgical trainees, the residents or fellows. They have to pass computer simulation tests, online tests, and sit in didactic live and dry labs. For the attending surgeons, they have to be credentialed to perform the analogous surgical procedures, open or laparoscopic. In other words, via some other technique other than robotic. The attending surgeons also have to go through prescribed online and on-site live training course on

animals or cadavers. And then, we have to go through at least five proctored procedures where a surgeon with experience is watching them do the case.

#### Dr. Kent:

It is a very sophisticated process, but we're the place where people come to train. I would say we are probably one of the top centers in the country in terms of training, where people will come to learn robotic techniques. So I think your surgeons are pretty well credentialed.

#### Dr. Fowler:

Yes, fortunately, we have great staff at Ohio State and that helps a lot in those regards.

#### Dr. Kent:

Well, thank you. Another round of applause for Jeff, and that concludes my report.

#### Mr. Wexner:

David?

#### Mr. McQuaid:

Yes, good morning, everyone. I want to spend my time this morning in the operations report to continue on the theme of teaching and learning, and to spend some time in the graduate medical education space. Across the country, 120,000 residents and fellows train in our medical centers and health systems. Here at Ohio State, we have 886 residents across 142 programs. I've asked Dr. Scott Holliday to join me this talk about what's referred to as the Main Residency Match, and how we recruit residents into our programs and talk about that big day in March every year. That's exciting for graduating medical students and we have some great and interesting statistics on that. Importantly for the health system, these residents are on the front lines of patient care. In their learning through our teaching and training, they have to be able to cite quality and safety issues, and they need to intervene as appropriate. They need to be able to work on interdisciplinary teams and, for example, learn transitions of care. So we take deep pride in the training that we give our residents and that clinical learning environment is really, really important.

I've asked Dr. Holliday to spend a little bit of time talking about how, through the Accreditation Council for Graduate Medical Education, we just went through a clinical learning environment review. Dr. Holliday is the associate dean for Graduate Medical Education and he's also a clinical associate professor of both internal medicine and pediatrics. Scott?

#### Dr. Holliday:

Thank you for the time to chat with you today. For those of you who are not familiar with the match process, it is a pretty exciting time when everyone across the country learns their fate when it comes to residency and fellowship training programs. Our medical students receive letters, and they all open them at the same time across the country,

and everyone finds out where they're going and where the computer has matched them based on their interviews and their preferences through the process.

We are excited to share that we had an outstanding match this year. We had set some metrics around match this year and the quality of applicants that we're attracting here. As we look at attracting applicants, we are competing with all of the other institutions to get the best and the brightest across the country. We set a goal of getting at least 27 percent of our new residents and fellows across the institution who were either from a top 30 *US News & World Report* top research institution or Alpha Omega Alpha, which is the national honors society for medical schools across the country. We met and exceeded that goal. We had 29.3 percent of our new incoming residents and fellows who met those metrics.

In addition to that, we also had a lot of other great qualities in some of our other applicants, from members of the Gold Humanism Honor Society and folks who have demonstrated great interpersonal and communication skills. We have attracted many people from Ohio who will likely stay in Ohio and take care of our patients and our communities here in the state. And then, lastly, we reached out more broadly across the country. Each year for the past several years, we've actually increased our reach of residents from outside of the Midwest, so we are starting to show a lot more penetration of our residents coming from outside of the Midwest. So we are really starting to show our national presence in graduate medical education.

As Mr. McQuaid mentioned, I'll also talk about the clinical learning environment. We had a review from the ACGME, which is the Accreditation Council for Graduate Medical Education, just a few weeks ago, March 13th through the 15th. What they do is they come here and they look at our institution — and they do that with all of the institutions — to show how we can put a mirror up to us and let us see what we're doing well, but it also pushes us to do a little bit better. The goal of the program is to encourage six focus areas. First, patient safety, so how well we're keeping our patients safe while they're here getting excellent care from all of those potential pitfalls that could happen, whether it's medication errors or communication errors, or other things that may impact the care of the patient and safety. The second metric is health care quality and health care disparities. They look at how we're teaching the next generation of physicians to understand that data is important when you're managing patients, and the importance of applying that data and improving based on what you know.

Supervision of residents and fellows, what is our landscape around supervision? Transitions of care, so when patients are traveling from different areas of our hospital, from the ICU to a medical-surgical floor, or from the OR to the PACU. How is that communication made so that we're ensuring our patients are kept safe, and that the high quality of care continues as the patient moves throughout our system? But also, how do we ensure that we're providing excellent communication as providers change at end of duty shifts, etc.

The fifth category is wellbeing, and that's a new category for the ACGME and not something that had been stressed in the past. This was brought on by a lot of literature that shows burnout rates among physicians, residents and fellows, as well as other health care professionals, has continued to increase. We've sadly seen institutions who have lost multiple residents and fellows in the span of a year to suicide, so it's not a light issue. We want to make sure that we're paying attention to wellbeing. And finally, the last issue that they look at is professionalism. When they come and do these site visits,

they're designed to be formative, so they come in very frequent cycles. So, every 18 to 24 months, the ACGME comes in with a team to give us a very thorough, kind of quick biopsy of our environment and the learning environment and how we're meeting expectations in those six areas. It's not really a site visit that anyone ever aces. It's designed to push us to not sit on our laurels and continue to be the best that we can.

We had had our last site visit back in July of 2016, and we focused on a few areas in response to some of the feedback we received then. We focused on how we onboard our new residents and fellows, indoctrinating them into quality and safety and cultural changes and expectations for our trainees. We spent time on quality improvement education, making sure that they understand the importance of data to their regular, daily clinical habits, and providing some resources around support and wellbeing.

We had our site visit a few weeks ago, and I'll quickly go through those six focus areas and what they identified as some of our successes. On patient safety, they commented a lot about how our priorities were very aligned. They met with residents, they met with fellows, they met with faculty members, they met with nurses and they really talked about how people were on the same page and aligned around the corporate enterprise scorecard around areas that we want to improve in patient safety. They saw that our residents had a strong working knowledge of safety science and were able to really have in-depth conversations when it came to things like root-cause analyses and things that really allow them to demonstrate firm knowledge and working knowledge in health care or in patient safety. And they saw that we've increased in our resident and fellow reporting of safety issues and concerns, and good catches to prevent issues across the institution. Certainly, as they identify successes, they also identify opportunities that we have to improve. One of the things they mentioned in the area of patient safety was looking at how we share local fixes. We're an institution where folks are very busy and when they have a problem, they want to find a local solution that fixes the problem, and they do a great job of that. But how do we help share that knowledge from that local fix so that others in other units who might be experiencing the same issues learn to improve as well? And how do we increase opportunities for experiential learning for our residents and fellows, getting them involved in projects and committees or activities while they're busy with other clinical activities?

In health care quality, some of the successes they identified were residents and fellows again had a great working knowledge of quality improvement and had some good exposure to the quality improvement process. They saw where some of our programs were providing great data on health care quality and the care they're providing, and really, we got the opportunity to highlight some of our healthy communities work around health care disparities and areas we're trying to improve within the community. They identified some opportunities we have for better integrating residents and all of our front line staff into some of those quality improvement initiatives. When you think about a lot of the work that's done in our quality improvement area, it is done in committee work and in meetings during the day when folks are taking care of patients. So it's important to try to find ways to pull all those front line care providers, like the residents, fellows, nurses and busy young clinicians, into those discussions and share their expertise and their experiences to help things improve.

When they talked about care transitions, they saw that we very effectively communicated around patient transitions from place to place when patients were going from the OR to the PACU, or other areas within our institution. And they commented on our crew resource management and our simulation training around team-based communication,

and saw that as a way to continue to push forward effective team communication. They also saw that we had some opportunities where some of our folks demonstrated expertise when it comes to communication at the time of handout between providers. We could share some of those best practices across other areas to improve some of that communication.

Around supervision, they saw that residents felt adequately supervised. In fact, in some situations, they felt over-supervised — not surprisingly there — and they felt the faculty was very accessible to the needs of the residents and fellows. Some of the opportunities we saw in that area, from the information they provided, was that we need to look at mitigating some of the supervising challenges, when faculty members are providing care in clinical settings away from the medical center. So at some of our distance sites, how do we coordinate that so we have better oversight over the residents? And then, as we look at a busy institution with high acuity and high volume of patients, we also want to look at how we better counterbalance work intensity with wellbeing, and how do we monitor that for our trainees moving forward, to set them up for their future?

Moving to wellbeing, the next area, they saw that we have been doing small pilots to improve resiliency amongst residents. We have reduced burnout in those small groups by about 22 percent in some of the earlier inventions that we have been involved with. They saw some of our resources from our GME Ombuds Program, and our stress, trauma and resilience program in our employee assistance program to help support folks that are having challenges in the workplace. And then planning around our medical center-wide health and wellness program. We're able to talk with Dr. Gabbe as well as some of our other members of the team that's working on how we roll out a better support system for our entire medical center.

So, for opportunities, they saw that we need to continue to work on that program and really bring that to the institution, and also provide some screening tools for identifying early at-risk individuals. And finally, the last piece was on professionalism, and they saw that we had done a lot of work around professional behavior in the onboarding of our residents and fellows. They felt we were doing a great job when it came to mitigating and intervening when unprofessional behavior relapses did occur, in rare situations. In other opportunities, they felt that increasing some of our inter-professional activities would be beneficial for community and teamwork across teams.

#### Mr. McQuaid:

Great. Any questions for Dr. Holliday?

#### Dr. Drake:

In looking at things like average length of stay and operations in the hospital, one of the places where the residents are particularly critical is in things like timely submission of orders to keep the whole flow going. So it's an important addition to their education and their patient care for them to understand operations, so that it doesn't gum up the works. It's good to see that we're working on it.

#### Mr. McQuaid:

Yeah, I just want to thank Dr. Holliday and the entire faculty that has spent so much time in the area of teaching and learning for this next generation of clinicians. Their deep

commitment to their success is palpable, and their energy and their thought and the time they put in is critically important to us. So I'm very grateful to you, Dr. Clinchot, and the team in the educational space. Thank you very much.

#### Dr. Drake:

Great, and now we're on to Mr. Larmore.

#### Mr. Larmore:

Good morning, everyone. I'm pleased to report our financial results as of the end of February, eight months through our year. My first slide has four statistics. As you can see, our admissions and surgeries continue to track ahead of our budget and prior year. To highlight on the surgeries, you can see almost 30,000 surgeries through eight months. About 40 percent of that is on the inpatient side and 60 percent on the outpatient. The good news is our inpatient surgery, year-over-year, has grown 5 percent and our outpatient is up about 0.5 percent. So the focus on bringing more elective surgeries in-house is turning out well.

Our outpatient visits are growing year-over-year, just slightly behind our budgeted number. On the bottom right, our worked hours per adjusted admission is actually up three hours over the prior year, and one over our budget. The main driver here is we have been struggling this year with length of stay. But I am happy to report, although we've not closed the books for March, that our length of stay in March was the best that it has been all year, so there has been a lot of focus on that.

On the next slide, operating revenue is running 2.8 percent above budget and 10 percent above prior year. The good news is that our controllable costs year-over-year are growing at 8.5 percent, which yield our margin. You can see that we're actually running 12.8 percent ahead of budget and 43 percent ahead of prior year. So, we did anticipate most of that in the budget, but we're actually tracking ahead of that. And then, as we continue to plan for the major capital program that we have coming on board, you can see that days cash on hand year-over-year has grown from 120 days to 144 days, or an increase of about \$225 million in cash, so good results there.

The next slide is for the health system. There is a \$155 million bottom line compared to the budget of \$137 million, so we are \$17 million ahead of budget. We were at \$108 million last year, so we are \$46 million ahead. You can see some variances went to our budget, which is good news actually. Our revenue is running \$54 million ahead and our volume is ahead, so we're spending a little bit more on salary costs. As we're bringing new beds online, the challenge of how fast we can hire always exists. So, there's a little more spend on agency nurses than we had anticipated. The big number below that is the drug spend, and clearly as the cancer program continues to grow on the ambulatory side, the last two to three years we've seen significant increase in drug pricing, especially in the cancer field, so we're seeing that. But that expense actually yields revenue, so it's an explainable variance. A couple of new treatments have hit the market in the last year, which have put a strain on the expense side, but we are dealing with each one of those. The cost of these therapies or drugs are so high that we're actually having to negotiate case-by-case with the insurance companies to make sure we get paid for them. So there's an administrative burden for that, but so far, it's going well.

The next slide is the combination of all three enterprises. Each one of the business units is showing a financial improvement year-over-year. The margin rate in the business unit varies, but it varies in all medical centers. My challenge to each one of the operating officers is to improve their bottom line each year and we're seeing that this year, so that's great news.

The physician practice is running about \$8 million ahead of target, a little soft on the revenue side but the expenses are running below target. The College of Medicine is running about \$4.6 million ahead of where we had expected. Net at the medical center combined is about \$30 million ahead of where we had expected to be. The last slide is the balance sheet, and again this is the medical center, so all three entities together. All good news. I spoke about the growth in cash; we continue to pay down debt. Since the beginning of the year, we've paid down \$39 million of debt and our net assets have grown about \$185 million. So, all in all, positive results on the balance sheet.

I'll take any questions that you have on the financials.

#### Mr. Steinour:

A great job, obviously, on this. I know there have been a number of initiatives and the entire team has been involved in delivering those initiatives. There have also been some payer challenges, which periodically we've had conversations around. I don't know if, either on the initiatives side or on the challenge side, there's some information in this session that you'd want to share.

#### Mr. Larmore:

Most of our commercial contracts we try to do in three-year increments. We are in negotiations with two of our large payers currently. Each payer always feel that they pay us too much money, and we always feel like we need increases from them. We talked a lot earlier in the meaning about data, and who has data, and how much data is out there. The large insurance companies have data now and with all the coordination of benefits, it's hard to keep a secret what your rates are between your payers. So, part of our challenge is making sure that we keep all of our commercial carriers in line, because they actually feel it. As they lose a contract with a large employer, they feel that it's because they're paying too much and the health systems are giving other payers better rates. So, it's a challenge we deal with every year, but it's all good. A work in progress.

#### Mr. Steinour:

You've just done a terrific job, Mark [Larmore] and the finance team. The coordination and collaboration that's going on across the enterprise now is very much appreciated. Obviously, these are outstanding results and that's coming off a record year. To see a plus 10 off a record year is very unusual, so congratulations to the entire team.

#### Mr. Larmore:

Definitely a team effort.

#### Mr. Wexner:

Jay, you have a couple of proposals to make to the board?

#### Mr. Kasey:

Yes, thank you, Mr. Wexner. The next two items on the agenda support the university and the Wexner Medical Center's strategic plans to create innovative health care delivery models. We're requesting a recommendation to the University Board of Trustees for approval on both items, which are on the Finance and Master Planning & Facilities committee agendas this week.

The first item is a request to acquire vacant land for development of additional ambulatory care facilities in Franklin County. The proposed property is located on the southeast corner of State Route 161 and Hamilton Road in Columbus. The total land area is about 31.5 acres. The site is zoned commercial planned development and the university has filed a rezoning application to obtain entitlements allowing construction of medical facilities. The acquisition price is \$11 million and is consistent with being below two appraisals, which the university received for the same property.

#### APPROVAL FOR ACQUISITION OF UNIMPROVED REAL PROPERTY

Resolution No. 2018-78

## LOCATED AT STATE ROUTE 161 AND HAMILTON ROAD IN FRANKLIN COUNTY. OHIO

Synopsis: Authorization to purchase approximately 31.59 acres of unimproved real property located at the southeast corner of State Route 161 and Hamilton Road in Columbus, Franklin County, Ohio, is proposed.

WHEREAS the property is located at the southeast corner of State Route 161 and Hamilton Road in Columbus, Ohio; and

WHEREAS the property will be utilized for the construction of an ambulatory care facility, which is a key component of the Wexner Medical Center's strategic plan; and

WHEREAS the acquisition will be contingent upon the university obtaining entitlements allowing construction of medical facilities; and

WHEREAS it has been recommended by the Office of Planning and Real Estate, in coordination with the Wexner Medical Center, that the university purchase the land; and

WHEREAS funds for the acquisition will be provided by the Wexner Medical Center:

#### NOW THEREFORE

BE IT RESOLVED, That the Wexner Medical Center hereby approves and proposes that the purchase of said property be recommended to the University Board of Trustees for approval.

BE IT FURTHER RESOLVED, That the president and/or senior vice president for Business and Finance be authorized to take any action required to effect the sale of the property and to negotiate a purchase contract containing terms and conditions deemed to be in the best interest of the university.

(See Attachment XVII for background information, page 875)

#### Dr. Drake:

I would like to make a comment. We appreciate the support that we receive broadly throughout the community and, in this particular case, we really appreciate the contribution that the Wexners are making of real property to make it possible for the university to move forward. That gift is a very important part of this and we appreciate that support so much, so thank you.

#### Mr. Kasey:

The second request is a recommendation to the University Board of Trustees for professional services to begin the actual design of the facilities anticipated for the regional ambulatory site that we just described. This is a \$4 million request, which will allow for design through design development of a community-based ambulatory center. The program is approximately 200,000 gross square feet consisting of ambulatory surgery, endoscopy, primary care, specialty medical and surgical clinics, and related support services. The design, with adjustments, may also be deployed on future ambulatory sites as the medical center moves forward with its strategic plans. Those are the two requests at this time.

#### APPROVAL TO ENTER INTO PROFESSIONAL SERVICES CONTRACTS

Resolution No. 2018-79

#### WEXNER MEDICAL CENTER REGIONAL AMBULATORY FACILITIES

Synopsis: Authorization to enter into professional services contracts, as detailed in the attached materials, is proposed.

WHEREAS in accordance with the attached materials, the university desires to enter into professional services contracts for the following project; and

Prof. Serv. Total Approval Project Requested Cost

WMC Regional Ambulatory Facilities \$4.0M TBD Auxiliary Funds

#### NOW THEREFORE

BE IT RESOLVED, That the Wexner Medical Center Board hereby approves and proposes that the professional services contracts for the project listed above be recommended to the University Board of Trustees for approval.

BE IT FURTHER RESOLVED, That the president and/or senior vice president for Business and Finance be authorized to enter into professional services contracts for the project listed above in accordance with established university and state of Ohio procedures, with all actions to be reported to the board at the appropriate time.

(See Attachment XVIII for background information, page 877)

#### Dr. Thompson:

I'll entertain a motion to recommend both of these resolutions to the University Board of Trustees. And I will now call the roll.

Upon the motion of Mr. Schottenstein, seconded by Mr. Shumate, the Wexner Medical Center Board members adopted the foregoing motion by voice vote. Mr. and Mrs. Wexner abstained.

#### Dr. Thompson:

The motion carries. The next item on the agenda, Ms. Krueger.

#### Ms. Krueger:

Thank you. Last week, the Quality and Professional Affairs Committee met, which is also known as QPAC, to discuss a variety of items. Beth Bolyard walked us through a detailed look at the amendments to the bylaws and rules and regulations of the medical staff at the UH and the James. Members of QPAC voted to approve these amendments. To give you a little more detail, I've asked Dr. Thomas if he would give us a brief overview.

#### Dr. Thomas:

Thanks, Ms. Krueger. There are two separate medical staffs within the medical center, due to the need for the James PPS exemption, so we have two different sets of bylaws and rules and regulations. However, we have one joint bylaws committee, so a lot of those items are parallel in both sets of bylaws. We try to move forward and group the changes together when we do this. These amendments have been reviewed by the bylaws committee as well as the individual medical staff administrative committees for the James and University Hospitals, and then as Ms. Krueger mentioned, this resolution was approved at a meeting of the Quality and Professional Affairs Committee.

Many of the changes, which you have in your packet — it's a document that's 43 pages long — many of the changes are really housekeeping items, changes in titles, changes in structure. There are a couple of key items. One relates to the retention of medical records. You could imagine, in the olden days when we did not have electronic medical records, we needed to keep paper charts for an extended period of time. We used to keep those for 21 years, and what had become the industry standard is we rent a large warehouse to store them in. What has become a national standard is to have a 10- year retention policy. This change will allow us to move to a 10-year retention policy. For minors, however, we do retain them for the full 21 years, age of majority, plus a couple of years just for legal purposes. Obviously, with electronic medical records, each year then we're able to get rid of one year's worth of medical records, since they're now stored digitally for that 10-year period.

Obviously, we are not purging things out of our digital electronic medical records, but there are advances like that that allow these changes in our bylaws to move forward. I'd be happy to take any questions. Since this has been reviewed by many committees, I wasn't going to go through much more detail.

# AMENDMENTS TO THE BYLAWS AND RULES AND REGULATIONS OF THE MEDICAL STAFF OF UNIVERSITY HOSPITALS

Resolution No. 2018-80

Synopsis: The amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals are recommended for approval.

WHEREAS the proposed amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals were approved by a joint University Hospitals and James Bylaws Committee on October 9, 2017; and

WHEREAS the proposed amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals were approved by the University Hospitals Medical Staff Administrative Committee on December 13, 2017; and

WHEREAS the proposed amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals were approved by the University Hospitals Medical Staff on January 5, 2018; and

WHEREAS the proposed amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals were approved by the Quality and Professional Affairs Committee of the Wexner Medical Center Board on March 27, 2018:

#### NOW THEREFORE

BE IT RESOLVED, That the Wexner Medical Board hereby approves and proposes that the attached amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of The Ohio State University Hospitals be recommended to the University Board of Trustees for approval.

(See Attachment XIX for background information, page 878)

# AMENDMENTS TO THE BYLAWS AND RULES AND REGULATIONS OF THE MEDICAL STAFF OF THE ARTHUR G. JAMES CANCER HOSPITAL AND RICHARD J. SOLOVE RESEARCH INSTITUTE

Resolution No. 2018-81

Synopsis: The amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute are recommended for approval.

WHEREAS the proposed amendments to the *Bylaws and the Rules and Regulations of the Medical Staff* of The James Cancer Hospital were approved by a joint University Hospitals and James Bylaws Committee on October 9, 2017, and the James Bylaws Committee on December 1, 2017; and

WHEREAS the proposed amendments to the *Bylaws and the Rules and Regulations of the Medical Staff* of The James Cancer Hospital were approved by the James Medical Staff Administrative Committee on December 8, 2017; and

WHEREAS the proposed amendments to the *Bylaws and the Rules and Regulations of the Medical Staff* of The James Cancer Hospital were approved by the James Medical Staff on December 22, 2017; and

WHEREAS the proposed amendments to the *Bylaws and the Rules and Regulations of the Medical Staff* of The James Cancer Hospital were approved by the Quality and Professional Affairs Committee of the Wexner Medical Center Board on March 27, 2018:

#### NOW THEREFORE

BE IT RESOLVED, That the Wexner Medical Center Board hereby approves and proposes that the attached amendments to the *Bylaws and Rules and Regulations of the Medical Staff* of the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute be recommended to the University Board of Trustees for approval.

(See Attachment XX for background information, page 891)

Mr. Wexner:

Andy, thank you.

#### Dr. Thompson:

All I need is a motion to recommend these resolutions to the University Board of Trustees. This can be done by voice vote.

Upon the motion of Ms. Krueger, seconded by Mrs. Wexner, the Wexner Medical Center Board members adopted the foregoing motion by unanimous voice vote.

#### Dr. Thompson:

The motion carries.

#### Ms. Krueger:

Great, thank you. QPAC also voted to approve this resolution with regard to the trauma program verification that resides with the Wexner Medical Center Board, which is required by both the University Hospitals as well as University Hospital East. Andy, do you want to tell us a little bit more about this as well?

#### Dr. Thomas:

Yes, thank you, Ms. Krueger. Every three years, the American College of Surgeons Committee on Trauma does a site visit for every designated trauma center around the country. This is one of many re-designated programs for us. The burn program goes through a similar review. One of the requirements in that accreditation process is that the governing body of the organization provide an endorsement of that application.

One new item this year, you'll notice in the resolution it mentions a Level 3 trauma program at University Hospital East. That is a new change for us to have a trauma program there. You could imagine there are a number of patients who may have a trauma in the vicinity of East Hospital and currently those folks are being taken to Grant Hospital or to another facility because, by state law, if there is a trauma involved EMS has to take the patient to an actual trauma center. Or, if a patient were to walk in and have a trauma, they have to be transferred to another hospital. Just to give you a sense of the scale of our current trauma program, this is before even the addition of the Level 3 program at East, in calendar year 2017, we had 2,738 total trauma patients. Just under 1,000 of those actually came from the scene of the trauma; 1,250 of those came as a

referral from another hospital. We get patients from all over the state that are sent here either by air or by ground ambulance. We obviously get local patients that are brought to us by ground ambulance, but the opening of a Level 3 trauma center at East will substantially change the nature of that hospital, because EMS drives by it for certain things. We've already seen the change with the opening of a program for heart attacks and a stroke program there. EMS is finding we have more and more resources there that will help the hospital over time in a great way.

Mary Howard and Elizabeth Seely, in her time prior at East, have been really wonderful to work with. The medical staff has really been engaged in this as well as our trauma program leadership. I think it will be a terrific project to change the trajectory of East Hospital over time.

#### UNIVERSITY HOSPITALS TRAUMA CERTIFICATION

Resolution No. 2018-82

Synopsis: Applications for a Level 1 trauma verification for University Hospitals and a Level 3 trauma verification for University Hospitals East by the American College of Surgeons-Committee on Trauma, are proposed.

WHEREAS the Ohio State University Wexner Medical Center's mission includes teaching, research and patient care; and

WHEREAS the Wexner Medical Center is committed to maintaining the high standards required to provide optimal care for all trauma patients at University Hospitals emergency departments; and

WHEREAS the Wexner Medical Center is cognizant of the resources needed to support a Level 1 Trauma Program at University Hospitals and a Level 3 Trauma Program at University Hospitals East, and the contributions of these programs to its tripartite mission; and

WHEREAS on February 12, 2018, the University Hospitals Medical Staff Administrative Committee approved the proposed applications for a Level 1 trauma verification for University Hospitals and a Level 3 trauma verification for University Hospitals East by the American College of Surgeons-Committee on Trauma; and

WHEREAS on March 27, 2018, the Quality and Professional Affairs Committee of the Wexner Medical Center Board approved the proposed applications for a Level 1 trauma verification for University Hospitals and a Level 3 trauma verification for University Hospitals East by the American College of Surgeons-Committee on Trauma:

#### NOW THEREFORE

BE IT RESOLVED, That the Wexner Medical Center Board hereby approves the applications for a Level 1 trauma verification for University Hospitals and a Level 3 trauma verification for University Hospitals East by the American College of Surgeons-Committee on Trauma.

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Thank you.

#### Dr. Thompson:

Comments? I'll entertain a motion to approve the resolution. This requires a roll call vote because the approval resides with the Wexner Medical Center Board.

Upon the motion of Dr. Drake, seconded by Ms. Krueger, the Wexner Medical Center Board members adopted the foregoing motion by unanimous roll call vote, cast by board members Dr. McPheron, Mr. Papadakis, Dr. Drake, Mr. Schottenstein, Mr. Steinour, Mrs. Wexner, Ms. Krueger, Mr. Jurgensen, Dr. Reid, Mr. Shumate and Mr. Wexner.

#### Dr. Thompson:

The motion carries.

#### Mr. Wexner:

Before we adjourn, let's take a couple of minutes. Our second son was a high school varsity rower, and he is now in his junior year at college and he strokes an eight-person boat. I don't know how many of you know about rowing, but that's about what I know. What he tells me is when the boat is in harmony, there's all kind of great vibrations and it just feels better and they happen to go faster, too. There's a great book called "The Boys in the Boat," which talks about that experience. It's focused on the experiences of all the boys in the boat, the coach, the stroke and what they did and what they accomplished. In the spirit of getting all the boys and girls in the boat rowing together, I think that's what we're seeing today. First of all, it took us a while to get through an agenda on time, and we've been practicing this for multiple years, but we actually had an agenda end on time, which is one measure of growing together.

Also, when you look at the performance, whether it's improvement in reputation, NIH grants, clearly the financial performance, it means a lot of people are in the boat and rowing together. You saw with Dr. Farrar and Dr. Pollock that they are stroking their boat and not only how they report, but just the fact that they really know each other, shook hands afterwards. I thought you and Raph were going to kiss each other, but there's actually real human relations and real tangible proof of working together.

When you look at the financial support, and I thought the gift that was announced today, all these gifts are significant and many people that make large gifts would prefer to make them anonymously and if not anonymously, do it very quietly. We implored our donors to be present, because if gifts are made and no one knows, then there's no standard. It's the tree that falls in the forest and no one hears. So I appreciate not only the gift, but the fact that they gave it publicly. In that same spirit of their \$18 million gift, we had broad support in the community for the medical center, by individual gifts of time and money, the support for Pelotonia, the success of the cancer cruise. So, in terms of the community supporting us and individuals supporting us, there's strong evidence in the broad community that the work of the medical center and the university is really appreciated. Not only are boys and girls in the boat stroking, but there is an audience that is visible and appreciates the work that we're doing.

Another example is that a lot of time and effort went into the strategic plan, and when people reference the strategic plan as this is guiding our work, this is what we said we would do, these are the deliverables, and then you know the strategic plan is alive and well and is a functioning part of the university. It is particularly in the medical center.

We've all experienced strategic plans that were made, shelved and then things just went back to normal, and the work that went into the strategic plan had nothing to do with the tactics and strategy on a day-to-day basis. The board has been supportive, put an enormous amount of time into it; the staff and administration of the medical center and the university have worked towards this. There's real evidence of the leadership and the followership, whether it's the med students, the doctors or the community being supportive. We're beginning to feel, at least I'd ask you to think about it, if it doesn't feel more like we're in rhythm and the boat is going faster. I think we're just at the beginning of the beginning and that's a remarkable accomplishment.

I want to shift to the support. The role of the medical center board, and I think all public boards, we have a fiduciary responsibility and we also have a responsibility not to park our brains when we come into these meetings. We actually can think things through, understand things, challenge things, be a supportive force.

I was talking to David and I was thinking back not that many years ago, when the medical center board took a pretty courageous step in supporting the development of the neighborhood facility in Kingsdale. How big should it be? Should we do it? Is it too close to the campus? Is it a good idea or bad idea? It turned out to be a spectacular idea. If that decision wasn't supported by the board, that 100,000-square-foot facility wouldn't have proved the ability of the medical center to operate these neighborhood facilities, which provide great services to the community, but also provide a theater here at the physical center of the medical center. That leads to the work that collectively we've done to build, to begin to plan, these many community hospitals or facilities around the city, which will probably be between 150,000 to 200,000 feet. Those buildings will change the trajectory of our support in the community and our support for the community. And so, by understanding and taking the time to understand, we've been a supportive force, and we've been a supportive force for other easy decisions and some of the tough ones.

When the medical center board was formed, both Janet [Reid] and Jerry [Jurgensen] were there at the first meetings and have had damn near perfect attendance and 100 percent participation. I worked with Jerry when I was on the board of The Ohio State University, and him being on the board of the medical center has been vital. Jerry and I don't always agree, which is a good thing. I respect his opinion and his judgement and certainly the dedication that he has had to The Ohio State University. It is not his alma mater. Likewise, Janet, when recruited to the board of The Ohio State University and then asked to serve on the medical center board, she's commuting up regularly from Cincinnati and has been tremendously influential to the university board, as has Jerry, but her experience at Mercy, her experience with HR, has been a major contributor to what we've done. On a personal basis, having been on the board of the university and known a number of its trustees, in the life of a trustee — which is nine years — the time put in is at a minimum 3.200 hours. If you want to divide 3.200 hours or 4.000 hours, it's in that range by nine years, by eight hour days and it's a couple or 2.5 days a month between phone calls and committee meetings and board meetings. You're talking about at least a year of one's life in working days. I appreciate those contributions and I particularly appreciate Jerry's and Janet's because it was more than perfect attendance, it was damn near perfect work. I know you're about to retire from the university board and from this board, and for all of us, we appreciate your contribution and personally, I appreciate it very much and I want to thank you.

Neither of you are generally at a loss for words.

#### Dr. Reid:

First of all, thank you for the kind words. Health care has been something that I have been involved with for many, many, many years, and being on this board in particular was a great joy to see it start from the beginning and then to shape it into what it is now. To produce a meeting like what we had today, and to see the harmony and the boat rowing, and you know all of that from where it started is just, I mean what a great time to step away because it's in a great place. I want to thank all of you. You know, we've gone through a lot together and we're in an excellent place.

#### Mr. Jurgensen:

Just to echo everything Janet said, actually, the medical center board was about the first thing that I got an opportunity to do when I got to Columbus in 2000. I was recruited by Hagop Mekhjian to this board and it was very interesting for me. I grew up in a medical family. My father was a physician and my brother is an OBGYN. I wasn't smart enough to get into medical school; otherwise, there would have been three Dr. Jurgensens. But, it has been great and we've seen a lot. When I first joined the university board with Les, that was a billion dollars and a new tower was just happening and it has been terrific. As you all know, and Andy [Thomas] maybe a little more than anybody else, I had the opportunity to experience what we do firsthand with what Patty [Jurgensen] went through, and I just couldn't be more thankful for how everyone treated her and the quality of care that she got here. I'll never forget that, so it's been great.

#### Dr. Drake:

That brings us to the close of the public session, and I wanted to echo a couple of things. First, thank you very much, Mr. Wexner, for your thoughtful comments, which really did reflect the things I'm going to echo. One is the very hard work of the people sitting to my left over this past year. There were real, actual decisions made. There were real, actual administrative changes made. There was a real, actual different direction plotted. It took hundreds of hours of work. I'm thinking of Bruce [McPheron] and the hundreds of hours of work that the provost put into this, which wouldn't have been the case normally. And the hundreds of hours of work as we go down the line and look at Craig [Kent] and David [McQuaid] and Mark [Larmore] in particular during this last year. It's important to focus on how well it's going now, and how much better this is than it was before. And that's with all of this work going on over just the past year. I want to make a real acknowledgement of the teamwork of the entire group. It has been amazing. And then the work of the board to be supportive, ask the right questions and elevate this discussion is something that brings us to this great place. And then the wonderful work of our retiring members as great exemplars of the best that we can be.

We would be exactly on time with our agenda, had we not had prolonged applause, so I'm going to count that as bonus time and say it has been great and we will call to an end this part of the meeting, thank you.

#### Dr. Thompson:

At this time I will entertain a motion to recess into executive session to consider business-sensitive trade secrets required to be kept confidential by federal and state statutes, to discuss quality matters required to be kept confidential under Ohio law, to consult legal counsel regarding pending or imminent litigation, to discuss the purchase of real property and personnel matters of public officials. May I have that motion?

Upon the motion of Mrs. Wexner, seconded by Mr. Steinour, the Wexner Medical Center Board members adopted the foregoing motion by unanimous roll call vote, cast by board members Dr. McPheron, Mr. Papadakis, Dr. Drake, Mr. Schottenstein, Mr. Steinour, Mrs. Wexner, Ms. Krueger, Mr. Jurgensen, Dr. Reid, Mr. Shumate and Mr. Wexner.

#### Dr. Thompson:

Motion carries. You are in executive session.

Attest:

Leslie H. Wexner Chairman Blake Thompson Secretary (ATTACHMENT XVII)

# APPROVAL FOR PURCHASE OF UNIMPROVED REAL PROPERTY STATE ROUTE 161 AND HAMILTON ROAD COLUMBUS, FRANKLIN COUNTY, OHIO

#### Background

The Ohio State University's Wexner Medical Center (WMC) seeks to acquire vacant land for development of additional ambulatory care facilities in Franklin County, Ohio. Acquisition of this land is important in meeting the objectives of the WMC's ambulatory care strategy, which is in turn a key component of the WMC strategic plan and its mission to improve health in Ohio and across the world through innovation in research, education and patient care.

#### **Location and Description**

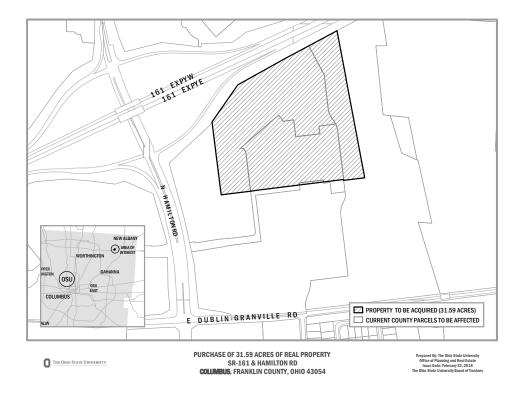
The property is located at the southeast corner of State Route 161 and Hamilton Road. The total land area being acquired is approximately 31.59 acres. The site is zoned CPD (Commercial Planned Development) and a rezoning application has been filed by The Ohio State University to obtain entitlements allowing construction of medical facilities. The purchase contract shall contain a contingency permitting the university to terminate the contract if it does not obtain the desired entitlements and shall also obligate the seller to perform certain site balancing work to elevate portions of the site out of the floodplain and additional infrastructure work.

#### **Property History**

The +/- 31.59 acres is currently comprised of portions of four legal parcels, and title to the properties is vested in HC Office Sub 6 LLC, Stephen L. Harper, Trustee, and Target Corporation. Prior to WMC's acquisition of the property, title will be consolidated to HC Office Sub 6 LLC, which will be the seller.

#### **Purchase of Property**

WMC recommends that the +/- 31.59 acres of unimproved real property described above be acquired on terms and conditions that are in the best interest of the university. The source of funding for the acquisition and subsequent development of the property will be the Wexner Medical Center. The acquisition price is \$11,000,000, subject to appropriate adjustments and pro-rations at closing.



(ATTACHMENT XVIII)

### Project Data Sheet for Board of Trustees Approval

## **WMC Regional Ambulatory Facilities**

OSU-180636 Project Location: TBD

•	approval requested and amount professional services	\$4.0M
•	project budget professional services construction w/contingency total project budget	\$4.0M TBD TBD
•	project funding  ☐ university debt  ☐ development funds  ☐ university funds  ☒ auxiliary funds (health system)	

### ☐ state funds project schedule

BoT professional services approval	4/18
design	4/18
construction	TBD

#### project delivery method

- general contracting
- ☐ design/build
- □ construction manager at risk

#### planning framework

- consistent with the strategic plans of the university and Wexner Medical Center to provide medical services within community-based ambulatory facilities
- conceptual site plan completed March 2018
   the FY 2018 Capital Investment Plan will be amended to include the professional services amount

#### project scope

- design approximately 200,000 square foot ambulatory building that will include ambulatory surgery, endoscopy, primary care, specialty medical and surgical clinics, and related support
- o site planning for a potential phase II is included in the scope
- o the design is intended to provide a branded identity which could be deployed to additional future sites

#### approval requested

- approval is requested to amend the FY2018 Capital Investment Plan
- approval is requested to enter into professional services contracts

•	project team	
	University project manager:	
	AE/design architect:	TBD

Office of Administration and Planning

April 2018

(ATTACHMENT XIX)



UH Bylaws Committee: 10.09.2017 MSAC: 12.13.2017 Medical Staff Vote: 01.05.2018 Quality & Professional Affairs: 3.27.2018 MC Board: 4.04.2018 UBOT: 4.06.2018

#### Bylaws of the Medical Staff The Ohio State University Hospitals Chapter 3335-43

#### 3335-43-01 Medical staff name.

No change.

#### 3335-43-02 Purpose.

The purpose of the self-governing, democratically organized medical staff, which is accountable to the Ohio state university Wexner medical center board for the quality of care provided to the patients of the Ohio state university hospitals, shall be:

#### (A) - (D) No change.

(E) To govern medical staff and credentialed practitioners these bylaws are not intended to and shall not create any contractual rights between the Ohio state university Wexner medical center and any practitioner. Any and all contracts of affiliation, association or employment shall control contractual and financial relationships between the Ohio state university Wexner medical center and such practitioners.

(Board approval dates: 6/7/2002, 2/2/2007, 9/19/2008, 4/8/2011, 11/7/2014)

#### 3335-43-03 Patients.

No change.

#### 3335-43-04 Membership.

- (A) Qualifications
  - (1) No change.
  - (2) All members of the medical staff of the Ohio state university hospitals shall, except as specifically provided in these bylaws, be members of the faculty of the Ohio state university college of medicine, or in the case of dentists, of the Ohio state university college of dentistry..., and shall, All members, except for physician scholar medical staff, shall be duly licensed or certified to practice in the state of Ohio. Members of the limited staff shall possess a valid training certificate, or an unrestricted license from the applicable state board based on the eligibility criteria defined by that board. All members of the medical staff and limited staff and licensed health care professionals with clinical privileges shall comply with provisions of state law and the regulations of the state medical board or other state licensing board if applicable. Only those physicians, dentists, and practitioners of psychology and podiatry who can document their education, training, experience, competence, adherence to the ethics of their profession, dedication to educational and researchgoals, and ability to work with others with sufficient adequacy to assure the Wexner medical center board and the board of trustees of the Ohio state university that any patient treated by them at university hospitals will be given the high quality of medical care provided at university hospitals, shall be qualified for membership on the medical staff of the Ohio state university hospitals.



All applicants for membership, clinical privileges, and members of the medical staff must provide basic health information to fully demonstrate that the applicant or member has, and maintains, the ability to perform requested clinical privileges. The chief medical officer of the medical center, medical directors, the department chairperson, the credentialing committee, the medical staff administrative committee, the quality and professional affairs committee of the Ohio state university Wexner medical center board, or the Ohio state university Wexner medical center board may initiate and request a physical or mental health evaluation of an applicant or member. Such request shall be in writing to the applicant. All members of the medical staff and licensed health care professionals will comply with medical staff and the Ohio state university policies regarding employee and medical staff health and safety; uncompensated care; and will comply with appropriate administrative directives and policies to avoid disrupting those operations of the Ohio state university hospitals which adversely impact overall patient care or which adversely impact the ability of the Ohio state university hospitals employees or staff to effectively and efficiently fulfill their responsibilities. All members of the medical staff and licensed health care professionals shall agree to comply with bylaws, rules and regulations, and policies and procedures adopted by the medical staff administrative committee and the Wexner medical center board, including but not limited to policies on professionalism, behaviors that undermine a culture of safety, annual education and training (list approved by the medical staff administrative committee and maintained in the chief medical officer's office), conflict of interest, HIPAA compliance, and access and communication guidelines. Medical staff members and licensed health care professionals with clinical privileges must also comply with the university integrity program requirements including but not limited to billing, self-referral, ethical conduct and annual education. Medical staff members and licensed health care professionals with clinical privileges must immediately disclose to the chief medical officer and the department chairperson the occurrence of any of the following events: a licensure action in any state, any malpractice claims filed in any state or an arrest by law enforcement.

- (3) All members of the medical staff and credentialed providers must maintain continuous uninterrupted enrollment with all governmental health care programs.
  - (a) It shall be the duty of all medical staff members and credentialed providers to promptly inform the chief medical officer and the corporate credentialing office of any investigation, action taken, or the initiation of any process which could lead to an action taken by any governmental programs.
  - (b) Exclusion of any medical staff member or licensed health care professional credentialed provider from participation in any federal or state government program or suspension from participation, in whole or part, in any federal or state government reimbursement program, shall result in immediate lapse of membership on the medical staff of the Ohio state university hospitals and the immediate lapse of clinical privileges at the Ohio state university hospitals as of the effective date of the exclusion or suspension. Medical staff members may submit a request to resign their medical staff membership to the Chief Medical Officer in lieu of automatic termination. The resignation in lieu of automatic termination shall be discussed at the next credentialing committee and medical staff administrative committee in order to provide recommendations to the Quality and Professional Affairs Committee of the Wexner Medical Center Board. A final determination should be decided by the Quality and Professional Affairs Committee at its next regular meeting.
  - (c) If the medical staff member's or <u>credentialed provider's</u> licensed health care professional's participation in these all governmental programs is fully reinstated, the affected medical staff member or licensed health care professional credentialed provider shall be eligible to apply for



membership and clinical privileges at that time. It shall be the duty of all medical staff members and licensed health care professionals to promptly inform the chief medical officer of any action taken, or the initiation of any process which could lead to such action taken by any of these programs.

(4) - (7) No change.

(B) - (F) No change.

- (G) Resumption of clinical privileges following leave of absence.
  - (1) A member of the medical staff or credentialed provider shall request a leave of absence in writing for good cause shown such as medical reasons, educational and research reasons or military service to the chief of clinical service and the chief medical officer. Such leave of absence shall be granted at the discretion of the chief of the clinical service and the chief medical officer provided, however, such leave shall not extend beyond the term of the member's or credentialed provider's current appointment. A member of the medical staff or credentialed provider who is experiencing health problems that may impair his or her ability to care for patients has the duty to disclose such impairment to his or her chief of clinical department and the chief medical officer and the member or credentialed provider shall be placed on immediate medical leave of absence until such time the member or credentialed provider can demonstrate to the satisfaction of the chief medical officer that the impairment has been sufficiently resolved and can request for reinstatement of clinical activities. During any leave of absence, the member or credentialed provider shall not exercise his or her clinical privileges, and medical staff responsibilities and prerogatives shall be inactive.
  - (2) The member or credentialed provider must submit a written request for the reinstatement of clinical privileges to the chief of the clinical service. The chief of the clinical service shall forward his recommendation to the credentialing committee which, after review and consideration of all relevant information, shall forward its recommendation to the medical staff administrative committee and quality and professional affairs committee of the Wexner medical center board. The credentials committee, the chief medical officer, the chief of the clinical service or the medical staff administrative committee shall have the authority to require any documentation, including advice and consultation from the member's or credentialed provider's treating physician or the committee for practitioner health that might have a bearing on the medical staff member's or credentialed provider's ability to carry out the clinical and educational responsibilities for which the medical staff is seeking privileges. Upon return from a leave of absence for medical reasons the medical staff member or credentialed provider must demonstrate his or her ability to exercise his or her clinical privileges upon return to clinical activity.
  - (3) All members of the medical staff or credentialed providers who take a leave of absence for medical or non-medical reasons must be in good standing upon resumption of clinical activities. No member shall be granted leave of absence in excess or his or her current appointment and the usual procedures for appointment and reappointment, including deadlines for submission of application as set forth in this rule, will apply irrespective of the nature of the leave. Absence extending beyond his or her current term or failure to request reinstatement of clinical privileges shall be deemed a voluntary resignation from the medical staff and of clinical privileges, and in such event, the member or credentialed provider shall not be entitled to a hearing or appeal.



#### 3335-43-05 Peer review and corrective action.

- (A) Informal peer review.
  - (1) All medical staff members agree to cooperate in informal peer review activities that are solely intended to improve the quality of medical care provided to patients at the Ohio state university hospitals.
  - (2) Information indicating a need for informal review, including patient complaints, disagreements, questions of clinical competence, inappropriate conduct and variations in clinical practice identified by the clinical departments or divisions and medical staff committees shall be referred to the chair of the practitioner evaluation committee.

The practitioner evaluation committee chair or his or her designee will consult with the affected medical staff member and obtain information or opinions from knowledgeable persons within the medical center as well as external peer review consultants pursuant to criteria outlined in these bylaws.

- (3) The practitioner evaluation committee chair or his or her designee may obtain information or opinions from medical staff members or credentialed providers as well as external peer review consultants pursuant to criteria outlined in these bylaws. The information or opinions from the informal peer review may be presented to the practitioner evaluation committee or another designated peer review committee.
- (2)(4) Following the assessment by the practitioner evaluation committee chair or his or her designee, the practitioner evaluation committee may make recommendations for educational actions of additional training, sharing of comparative data or monitoring or provide other forms of guidance to the medical staff member to assist him or her in improving the quality of patient care. Such actions are not regarded as adverse, do not require reporting to any governmental or other agency, and do not invoke a right to any hearing.
- (3)(5) At the conclusion of the evaluation, the practitioner evaluation committee chair or his or her designee submits a report to the applicable clinical department chief and the chief medical officer. The chief of the clinical department and the chief medical officer shall evaluate the matter to determine the appropriate course of action. They shall make an initial written determination on whether:
  - (1) (a) The matter warrants no further action;
  - (2)—(b) Informal resolution under this paragraph is appropriate. The chief of the clinical department and the chief medical officer shall determine whether to include documentation of the informal resolution in the medical staff member's file. If documentation is included in the member's file, the affected member shall have an opportunity to review it and may make a written response which shall also be placed in the file. Informal review under this paragraph is not a procedural prerequisite to the initiation of formal peer review under paragraph (B) of this rule; or
  - (3) (c) Formal peer review under paragraph (B) of this rule is warranted.
- (6) In cases where the chief of the clinical department and chief medical officer cannot agree on the need for formal peer review, the matter shall be submitted for formal peer review and determined as set forth in paragraph (B) of this rule.



- (B) Formal peer review.
  - (1) (4) No change.
  - The formal peer review committee shall investigate every request and shall deliver written findings and recommendations for action to the chief of the clinical department. within 30 days. The formal peer review committee may recommend a reduction, suspension or revocation of the medical staff member's clinical privileges or other action as it deems appropriate. In making its recommendation the formal peer review committee may consider, relevant literature and clinical practice guidelines, the opinions and views expressed throughout the review process, information or explanations provided by the member under review, and other relevant information. Prior to making its report, the committee shall afford the medical staff member against whom the action has been requested an opportunity for an interview. At such interview, the medical staff member shall be informed of the specific actions or omissions alleged to constitute grounds for formal peer review and shall be given copies of any statements, reports, opinions or other information compiled at prior stages of the proceedings. The medical staff member may furnish written or oral information to the formal peer review committee at this time and shall be given an opportunity to discuss, explain, or refute the allegations and to respond to any statements, reports or opinions previously compiled in the proceedings. However, such interview shall not constitute a hearing, but shall be investigative in nature. The medical staff member shall not be represented by an attorney at this interview. The written findings and recommendations for action are expected to be submitted within 90 days, unless an extension is deemed necessary by the committee.
  - (6) Upon receipt of the written report and recommendation from the formal peer review committee, the chief of the clinical department shall within seven days make his or her own written recommendation for corrective action and forward that recommendation along with the findings and recommendations of the formal peer review committee to the chief medical officer.
  - (7) The chief medical officer shall have ten days to decide whether to accept, reject or modify the recommendation of the chief of the clinical department. If the chief medical officer decides the grounds are not substantiated, the chief medical officer will notify the formal peer review committee, the chief of the clinical department, the person(s) who filed the complaint and the affected medical staff member, in writing, that no further action will be taken

If the chief medical officer finds the grounds for the requested corrective action are substantiated, the chief medical officer shall promptly notify the affected medical staff member of that decision and the corrective action that will be taken. This notice shall advise the affected medical staff member of his or her right to request a hearing before the medical staff administrative committee pursuant to rule 3335-43-06 of the Administrative Code and shall also include a statement that failure to request a hearing in the timeframe prescribed in this rule shall constitute a waiver of rights to a hearing and to an appeal on the matter and the affected medical staff member shall also be given a copy of the rule 3335-43-06 of the Administrative Code. This notification and an opportunity to exhaust the administrative hearing and appeal process shall occur prior to the imposition of the proposed corrective action unless the emergency provisions outlined in paragraph (D) of this rule apply. This written notice by the chief medical officer shall be sent certified return receipt mail to the affected medical staff member's last known address as determined by university records.



(8) - (9) No change.

(C) - (D) No change.

- (E) Automatic suspension and termination.
  - (1) (2) No change.
  - (3) Failure to maintain the minimum required type and amount of professional liability insurance with an approved insurer, shall result in immediate and automatic suspension of a medical staff member's appointment and privileges until such time as proof of appropriate insurance coverage is furnished. In the event such proof is not provided within ten days of notice of such suspension, the medical staff member or credentialed provider shall be deemed to no longer comply with medical staff requirements under 3335-43-04 and automatically relinquish voluntarily terminated his or her appointment and privileges.
  - (4) Upon exclusion, debarment, or other prohibition from participation in any state or federal health care reimbursement program, or a federal procurement or non-procurement program, the medical staff member's appointment and privileges shall be-immediately and automatically terminate, unless resignation in lieu of automatic terminations is permitted to rule 3335-43-04(A)(3). suspended until such time as the exclusion, debarment, or prohibition is lifted.
  - (5) (9) No change.
- (F) No change.

#### 3335-43-06 Hearing and appeal process.

- (A) Right to hearing and to an appeal.
  - (1) When a member of the medical staff who has exhausted all remedies under paragraphs (E) and (F) of rule 3335-43-04 of the Administrative Code on appointment or reappointments; or under rule 3335-43-05 of the Administrative Code for corrective action; or who has been summarily suspended under paragraph (D) of rule 3335-43-05 of the Administrative Code, or who receives notice of proposed action that will adversely affect membership on the medical staff or the exercise of clinical privileges (see paragraph (A)(6) of rule 3335-73-04 of the Administrative Code), the staff member shall be entitled to an adjudicatory hearing.
  - (2) A medical staff member shall not be entitled to a hearing under the following circumstances:
    - (a) Denial by the Wexner medical center board to grant a waiver of board certification for a medical staff member.
    - (b) Termination of a medical staff member because of exclusion from participation in any government reimbursement program.
    - (c) Voluntary withdrawal of a medical staff application.
    - (d) Failure to submit a reappointment application.



- (e) A leave of absence extending beyond current appointment or failure to request reinstatement of clinical privileges following a leave of absence.
- (f) Actions or recommendations resulting from an informal peer review.
- (g) Termination of courtesy B medical staff appointments upon approval by the Wexner medical center board.
- (3) No change.
- (B) (E) No change.

#### 3335-43-07 Categories of the medical staff.

The medical staff of the Ohio state university hospitals shall be divided into seven categories: physician scholar medical staff; attending medical staff; courtesy A medical staff; courtesy B medical staff; community affiliate medical staff; consulting medical staff; and limited staff. Medical staff members who do not wish to obtain any clinical privileges shall be exempt from the requirements of medical malpractice liability insurance, DEA registration, demonstration of recent active clinical practice during the last two years and specific annual education requirements as outlined in the list maintained in the chief medical officer's office, but are otherwise subject to the provisions of these bylaws.

- (A) Physician scholar medical staff.
  - (1) Qualifications: The physician scholar medical staff shall be composed of those faculty members of the colleges of medicine and dentistry who are recognized for outstanding reputation, notable scientific and professional contributions, and high professional stature. This medical staff category includes but is not limited to emeritus faculty members. Nominations may be made to the chair of the credentialing committee who shall present the candidate to the medical staff administrative committee for approval.
  - (2) Prerogatives: Members of the physician scholar medical staff have access to the Ohio state university hospitals and shall be given notice of all medical staff activities and meetings. Members of the physician scholar medical staff shall enjoy all rights of an attending medical staff member except physician scholar members shall not possess clinical privileges.
  - (3) Physician scholar medical staff must have either a full license or an emeritus registration by the state medical board of Ohio.
- (B) (D) No change.
- (E) Limited staff.

Limited staff are not considered full members of the medical staff, do not have delineated clinical privileges and do not have the right to vote in general medical staff elections. Except where expressly stated, members of the limited staff are bound by the terms of these bylaws, the rules and regulations of the medical staff, and the limited staff agreement.

(1) Qualifications

No change.



#### (2) Responsibilities:

- (a) (d) No change.
- (f) Appeal by a member of the limited staff of probation, lack of—reappointment promotion, suspension or termination for failure to meet expectations for professional growth or failure to display appropriate humanistic qualities or failure to successfully complete any other competency as required by the accreditation standards of an approved training program will be conducted and limited in accordance with written guidelines established by the respective department or training program and approved by the medicalprogram director and the Ohio state university hospitals graduate medical education committee as delineated in the limited staff agreement and by the graduate medical education policies.

Alleged misconduct by a member of the limited staff, for reasons other than failure to meet expectations of professional growth as outlined above, shall be handled in accordance with rules 3335-43-05 and 3335-43-06 of the Administrative Code.

(3) Failure to meet reasonable expectations.

Failure to meet reasonable expectations may result in sanctions including but not limited to probation, lack of reappointment, suspension or termination. Termination of employment from the limited staff member's residency or fellowship training program limited staff member status-shall result in automatic termination of the limited staff member's residency or fellowship appointment pursuant to these bylaws.

- (4) Temporary appointments. No change.
- (5) Supervision

Limited staff members shall be under the supervision of an attending or courtesy A medical staff member. Limited staff members shall have no privileges as such but shall be able to care for patients under the supervision and responsibility of their attending or courtesy A medical staff member. The care they extend will be governed by these bylaws and the general rules and regulations of each clinical department. The practice of care shall be limited by the scope of privileges of their attending or courtesy A medical staff member. Any concerns or problems that arise in the limited staff member's performance should be directed to the attending or courtesy A medical staff member or the director of the training program.

- (a) Limited staff members may admit and write admission, discharge and other orders for the care of patients under the supervision of the attending or courtesy A medical staff member.
- (b) All records of limited staff member cases must document involvement of the attending or courtesy A medical staff member in the supervision of the patient's care to include co-signature of the <u>admission order</u>, history and physical, operative report, and discharge summary.
- (F) (H) No change.
- (I) Clinical privileges.
  - (1) Delineation of clinical privileges. No change.



#### (2) Temporary privileges:

(a) Temporary privileges may be extended to a doctor of medicine, osteopathic medicine, dental surgery, psychologist, podiatry or to a licensed health care professional upon completion of an application prescribed by the medical staff administrative committee, upon recommendation of the chief of the clinical department, and approval by the chief medical officer. The chief medical officer acting as a member and on behalf of the Wexner Medical Center board, has been delegated responsibility by the Wexner medical center board to grant approval of temporary privileges. The temporary privileges granted shall be consistent with the applicant's training and experience and with clinical department guidelines. Prior to granting temporary privileges, primary source verification of licensure and current competence shall be required. Temporary privileges shall be limited to situations which fulfill an important patient-care need, and shall be granted for a period not to exceed one hundred twenty days.

(3) - (11) No change.

#### 3335-43-08 Organization of the medical staff.

No change.

#### 3335-43-09 Elected officers of the medical staff of the Ohio state university hospitals.

- (A) (D) No change.
- (E) Election of officers.
  - (1) (3) No change.
  - (4) The committee's nominees shall be submitted to all voting members of the attending staff no later than March-May first of the election year.
  - (5) (6) No change.
- (F) (G) No change.

#### 3335-43-10 Administration of the medical staff of the Ohio state university hospitals

(A) Chief medical officer.

The chief clinical officer functions as the chief medical officer as referred to herein these bylaws. The chief medical officer is the senior medical officer for the medical center with the responsibility and authority for all health and medical care delivered at the medical center. The chief medical officer is responsible for overall quality improvement and clinical leadership throughout the medical center, physician alignment, patient safety and medical staff development. The appointment, scope of authority, and responsibilities of the chief medical officer shall be as outlined in the Ohio state university Wexner medical center board bylaws.

(B) Chief quality and patient safety officer.



The chief quality and patient safety officer of the Ohio state university Wexner medical center is referred to herein these bylaws as the chief quality officer. The chief quality officer reports to the chief medical officer\_for administrative and operational issues and has an independent reporting relationship to the executive vice president for health sciences regarding quality data and patient safety-events. The chief quality officer works collaboratively with clinical leadership of the medical center, including the director of medical affairs for the James cancer hospital, nursing leadership and hospital administration. The chief quality officer provides leadership in the development and measurement of the medical center's approach to quality, patient safety and reduction of adverse events. The chief quality officer communicates and implements strategic, operational and programmatic plans and policies to promote a culture where patient safety is an important priority for medical and hospital staff.

- (C) (E) No change.
- (F) Credentialing committee of the hospitals of the Ohio state university:
  - (1) Composition:

The credentialing responsibilities of medical staff are delegated to the credentialing committee of the hospitals of the Ohio state university, the composition of which shall include representation from the medical staff of each health system hospital.

The credentialing committee of the hospitals of the Ohio state university shall be appointed by the chief medical officer. The chief of staff, director of medical affairs or and medical directors of each health system hospital shall make recommendations to the chief medical officer for representation on the credentialing committee of the hospitals of the Ohio state university.

The credentialing committee of the hospitals of the Ohio state university shall meet at the call of its chair, who shall be appointed by the chief medical officer of the health system.

- (2) Duties:
  - (a) (d) No change.
  - (e) To make recommendations to the medical staff administrative committee through the chief medical officer chairperson of the credentialing committee regarding appointment applications and initial requests for clinical privileges. Such recommendations shall include the name, status, department (division), medical school and year of graduation, residency and fellowships, medical-related employment since graduation, board certification and recertification, licensure status as well as all other relevant information concerning the applicant's current competence, experience, qualifications, and ability to perform the clinical privileges requested;
  - (f) (m) No change.
- (3) No change.
- (G) (M) No change.



UBOT: 4.06.2018

3335-43-11 History and physical.

No change.

3335-43-12 Meetings and dues.

(A) Meetings.

The medical staff of the Ohio state university hospitals shall conduct scheduled meetings twice yearly. Notice of the meeting shall be sent to all medical staff at least two weeks prior to the meeting. Attendance is encouraged, but shall not be a requirement for continued medical staff membership and clinical privileges. Special <a href="mailto:and/or electronic">and/or electronic</a> meetings of the medical staff may be called at the option of the medical staff administrative committee.

3335-43-13 Amendments and adoption.

No change.

3335-43-14 Rules of construction.

No change.

**APPENDIX I** 

No change.

APPENDIX II

No change.



Quality and Professional Affairs: 3.28.18 MC Board: 4.4.18 UBOT: 4.6.18

#### MEDICAL STAFF RULES AND REGULATIONS The Ohio State University Hospitals

Updated September 2, 2016

84-01	Ethical pledge.
	No change.
84-02	Admission procedures.
	No change.
84-03	Attending assignment.
	No change.
84-04	Consultations.
	No change.
84-05	Privileges for giving orders.
	No change.
84-06	Death and autopsy procedures.
	No change.
84-07	Disaster plan.
	No change.
84-08	Emergency care.
	No change.
84-09	Surgical case review.
	No change.
84-10	Tissue disposition.
	No change.
84-11	Committees and policy groups.
	No change.

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Quality and Professional Affairs: 3.28.18 MC Board: 4.4.18 UBOT: 4.6.18

# MEDICAL STAFF RULES AND REGULATIONS The Ohio State University Hospitals

Updated September 2, 2016

#### 84-12 Medical records.

(A)(1) - (5) No change.

(6) Records storage and security.

In general, medical records shall be maintained by the hospital. Records on microfilms, paper, electronic tape recordings, magnetic media, optical disks, and such other acceptable storage techniques shall be used to maintain patient records for twenty-one years for minors and ten years for adults. In the case of readmission of the patient, all records or copies thereof from the past ten/twenty-one years shall be available for the use of the attending medical staff member or other health care providers.

(7) - (10) No change.

#### 84-13 Operating room committee.

No change.

#### 84-14 Pharmacy and therapeutics committee.

No change.

#### 84-15 Transfusion and isoimmunization committee.

No change.

#### 84-16 Standards of practice.

No change.

#### 84-17 Mechanism for changing rules and regulations.

No change.

#### 84-18 Adoption of the rules and regulations.

No change.

#### 84-19 Sanctions.

No change.

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(ATTACHMENT XX)

## The James



UH and James Bylaws Committee: 10.09.17
James Bylaws Committee: 12.01.17

MSAC: 12.08.17

Medical Staff Vote: 12.22.17 Quality and Professional Affairs: 03.27.18

MC Board: 04.04.18 UBOT: 04.06.18

# Bylaws of the Medical Staff of the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute Chapter 3335-111

3335-111-01 Medical staff name.

No changes.

#### 3335-111-02 Purpose.

(E) To govern medical staff credentialed practitioners and these Bylaws are not intended to and shall not create any contractual rights between the Ohio state university Wexner medical center and any practitioner. Any and all contracts of affiliation, association or employment shall control contractual and financial relationships between the Ohio state university Wexner medical center and such practitioners.

#### 3335-111-03 Patients.

No changes.

#### 3335-111-04 Membership.

- (A) Qualifications.
  - (1) Membership on the medical staff of the CHRI is a privilege extended to doctors of medicine, osteopathic medicine, dentistry, and to practitioners of psychology and podiatry who consistently meet the qualifications, standards, and requirements set forth in the bylaws, rules and regulations of the medical staff, and the board of trustees of the Ohio state university. Membership on the medical staff is available on an equal opportunity basis without regard to race, color, creed, religion, sexual orientation, national origin, gender, age, handicap, genetic information or veteran/military status. Doctors of medicine, osteopathic medicine, dentistry, and practitioners of psychology and podiatry in faculty and administrative positions who desire medical staff membership shall be subject to the same policies and procedures as all other applicants for the medical staff
  - (2) All members of the medical staff of the CHRI, except community associate attending staffphysician scholar medical staff, shall be members of the faculty of the Ohio state university college of medicine, or in the case of dentists, of the Ohio state university college of dentistry, and shall be duly licensed or certified to practice in the state of Ohio. Members of the limited staff shall possess a valid training certificate, or an unrestricted license from the applicable state board based on the eligibility criteria defined by that board. All members of the medical staff and limited staff and licensed health care professionals with clinical privileges shall comply with provisions of state law and the regulations of the respective state medical board or other state licensing board if applicable. Only those physicians, dentists, and practitioners of psychology and podiatry who can document their education, training, experience, competence, adherence to the ethics of their profession, dedication to educational and research goals and ability to work with others with sufficient adequacy to assure the Wexner medical center board and the board of trustees of the Ohio state university that any patient treated by them at the CHRI will be given high quality medical care provided at CHRI, shall be qualified for

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## The James



UH and James Bylaws Committee: 10.09.17
James Bylaws Committee: 12.01.17

MSAC: 12.08.17

Medical Staff Vote: 12.22.17 Quality and Professional Affairs: 03.27.18

MC Board: 04.04.18 UBOT: 04.06.18

eligibility for membership on the medical staff of the CHRI. Except for community associate staff, CHRI medical staff members shall also hold appointments to the medical staff of the Ohio state university hospitals for consulting purposes. Loss of such appointment shall result in immediate termination of membership on the CHRI medical staff and immediate termination of clinical privileges as of the effective date of the Ohio state university hospitals appointment termination. This consequence does not apply to an individual's suspension for completion of medical records. If the medical staff member regains an appointment to the Ohio state university hospitals medical staff, the affected medical staff member shall be eligible to apply for CHRI medical staff must provide basic health information to fully demonstrate that the applicant or members has, and maintains, the ability to perform requested clinical privileges. The director of medical affairs of the CHRI, the medical director of credentialing, the department chairperson, the credentialing committee, the medical staff administrative committee, the quality and professional affairs committee of the Ohio state university Wexner medical center board, or the Ohio state university Wexner medical center board may initiate and request a physical or mental health evaluation of an applicant or member. Such request shall be in writing to the applicant.

- (3) All members of the medical staff and licensed health care professionals will comply with medical staff and the CHRI policies regarding employee and medical staff health and safety, provision of uncompensated care, and will comply with appropriate administrative directives and policies which, if not followed, could adversely impact overall patient care or may adversely impact the ability of the CHRI employees or staff to effectively and efficiently fulfill their responsibilities. All members of the medical staff and licensed health care professionals shall agree to comply with bylaws, rules and regulations, and policies and procedures adopted by the medical staff administrative committee and the Wexner medical center board, including but not limited to policies on professionalism, behaviors that undermine a culture of safety, annual education and training (list approved by the medical staff administrative committee and maintained in the chief medical officer's office), conflict of interest, HIPAA compliance and access and communication guidelines. Medical staff members and licensed health care professionals with clinical privileges must also comply with the university integrity program requirements including but not limited to billing, self referral, ethical conduct and annual education.
- (4) All members of the medical staff and credentialed providers must maintain continuous uninterrupted enrollment with all governmental healthcare programs. This includes any federal and state government programs.
  - (a) It shall be the duty of all medical staff members and credentialed providers to promptly inform the chief medical officer and the corporate credentialing office of any investigation, action taken, or the initiation of any process which could lead to an action taken by any governmental program.
  - (b) Exclusion of any medical staff member or allied health professional credentialed provider from participation in any federal or state government program or suspension from participation, in whole or in part, in any federal or state government reimbursement program, shall result in immediate lapse of membership on the medical staff of the CHRI and the immediate lapse of clinical privileges at the CHRI as of the effective date of the exclusion or suspension. Medical staff members may submit a request to resign their medical

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UH and James Bylaws Committee: 10.09.17 James Bylaws Committee: 12.01.17

MSAC: 12.08.17

Medical Staff Vote: 12.22.17 Quality and Professional Affairs: 03.27.18

MC Board: 04.04.18 UBOT: 04.06.18

staff membership to the Chief Medical Officer in lieu of automatic termination. The resignation in lieu of automatic termination shall be discussed at the next credentialing committee and medical staff administrative committee in order to provide recommendations to the Quality and Professional Affairs Committee of the Wexner Medical Center Board. A final determination should be decided by the Quality and Professional Affairs Committee at its next regular meeting.

(a)(c) If the medical staff member's or allied health professional's credentialed provider's participation in these all governmental programs is fully reinstated, the affected medical staff member or allied health professional credentialed provider shall be eligible to apply for membership and clinical privileges at that time. It shall be the duty of all medical staff members and allied health professionals to promptly inform the director of medical affairs or medical director of credentialing of any action taken, or the initiation of any process, which could lead to such action taken by any of these programs.

(5) - (6) No Changes.

(7) Applicants for community associate attending medical staff category, practicing in a CHRI unit at another hospital, must have and maintain clinical privileges and active medical staff membership at that hospital.

(8) - (10) No Changes.

(B) Application for membership.

No Changes.

### (C) Terms of appointment.

Initial appointment to the medical staff, except for the honorary category, shall be for a period not to exceed twenty-four months. An appointment or grant of privileges for a period of less than twenty-four months shall not be deemed an adverse action. During the first six months of the initial appointment, except medical staff appointments without clinical privileges, appointees shall be subject to focused professional practice evaluation (FPPE) in order to evaluate the privilege-specific competence of the practitioner who does not have documented evidence of competently performing the requested privilege at the organization pursuant to these bylaws. FPPE requires the evaluation by the clinical department chief with oversight by the credentials committee and the medical staff administrative committee. In the case of community associate attendings, receipt of the positive evaluation provided by the clinical department chief in the primary hospital in which they hold privileges is required.

The provisional appointee identifies the primary hospital. Following the six month FPPE period, the clinical department chief may: (1) recommend the initial appointee to transition to ongoing professional practice evaluation (OPPE), which is described later in these bylaws to the medical staff administrative committee; (2) extend the FPPE period, which is not considered an adverse action, for an additional six months not to exceed a



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total of twelve months for purposes of further monitoring and evaluation; or (3) terminate the initial appointee's medical staff membership and clinical privileges. In the event that the medical staff administrative committee recommends that an adverse action be taken against an initial appointee, the initial appointee shall be entitled to the provisions of due process as outlined in these bylaws.

(D) Professional ethics.

No Changes.

- (E) Procedure for appointment.
  - (1) (3) No Changes.
  - (4) The clinical department chief shall be responsible for investigating and verifying the character, qualifications and professional standing of the applicants by making inquiry of the primary source of such information and shall within thirty days of receipt of the completed application, submit a report of those findings along with a recommendation on medical staff membership and clinical privileges to the applicant's respective CHRI department chairperson and/or division directorsection chief. Licensed allied health professional applicants will have their clinical department chief's report submitted to the subcommittee of the credentials committee charged with review of applications for associates to the medical staff.
  - (5) The <u>department chairperson and/or division director section chiefs</u> shall receive all initial signed and verified applications from the appropriate clinical department chief and shall make a recommendation to the medical director of credentialing on each application. The medical director of credentialing shall make an initial determination as to whether the application is complete. The credentials committee, the medical staff administrative committee, the quality and professional affairs committee, and the Wexner medical center board have the right to render an application incomplete, and therefore not able to be processed, if the need arises for additional or clarifying information. The medical director of credentialing shall forward all completed applications to the credentials committee.
  - (6) (11) No Changes.
  - (12) The recommendation of the medical staff administrative committee regarding an appointment decision shall be made within thirty days of receipt of the credentials committee recommendation and shall be communicated by the medical director of credentialing, along with the recommendation of the director of medical affairs, to the quality and professional affairs committee of the Wexner medical center board, and thereafter to the Wexner medical center board. When the Wexner medical center board has acted, the chair of the Wexner medical center board shall instruct the director of medical affairs to transmit the final decision to the clinical department chief, the applicant, and the respective <u>department</u> chairperson and/or division directorsection chief.
  - (13) No Changes.



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(14) The director of medical affairs, who may make a separate recommendation to the Wexner medical center board, shall directly communicate the final recommendation of the medical staff administrative committee to the Wexner medical center board. When the Wexner medical center board has acted, the director of medical affairs will transmit the final decision to the clinical department chief, the applicant, the respective department chairperson and/or division directorsection chief, and the Ohio state university board of trustees.

- (F) Procedure for reappointment.
  - (1) No Changes.
  - (2) The reappointment application shall include all information necessary to update and evaluate the qualification of the applicant. The clinical department chief shall review the information available on each applicant for reappointment and shall make recommendations regarding reappointment to the medical staff and for granting of privileges for the ensuing appointment period. The clinical department chief's recommendation shall be transmitted in writing along with the signed and completed reappointment forms to the appropriate department chairperson and/or division director section chief at least forty-five days prior to the end of the individual's appointment. The terms of paragraphs (A), (B), (C), (D), (E)(1), and (E)(2) of this rule shall apply to all applicants for reappointment. Only completed applications for reappointment shall be considered by the credentials committee.
  - (3) (4) No Changes.
  - (5) The clinical department chief shall submit a report of those findings along with a recommendation on reappointment to the applicant's respective CHRI department chairperson and/or division director section chief. Licensed allied health professional applicants will have their clinical department chief's report submitted to the subcommittee of the credentials committee charged with review of application for associates to the medical staff. The department chairperson and/or division director section chief-shall review the reappointment application and forward to the medical director of credentialing with a recommendation for reappointment. The medical director of credentialing shall forward the reappointment forms and the recommendations of the clinical department chief and department chairperson and/or division director section chief to the credentials committee. The credentials committee shall review the request for reappointment in the same manner, and with the same authority, as an original application for medical staff membership. The credentials committee shall review all aspects of the reappointment application including source verification of the member's quality assurance record for continuing membership qualifications and for continuing clinical privileges. The credentials committee shall review each member's performance-based profile to ensure that all medical staff members deliver the same level of quality of care with similar delineated clinical privileges across all clinical departments and across all categories of medical staff membership.
  - (6) (8) No Changes.
  - (9) The medical staff administrative committee shall review each request for reappointment in the same manner and with the same authority as an original application for appointment to the medical staff and shall accept, reject, or modify the request for reappointment in the same manner and with the same



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authority as an original application. The recommendation of the medical staff administrative committee regarding reappointment shall be communicated by the medical director of credentialing, along with the recommendation of the director of medical affairs, to the quality and professional affairs committee of the Wexner medical center board, and thereafter to the Wexner medical center board. When the Wexner medical center board has acted, the chair of the Wexner medical center board shall instruct the director of medical affairs to transmit the final decision to the clinical department chief, the applicant, and the department chairperson and/or division director<del>section chief.</del>

(10) - (11) No Changes.

- (G) Resumption of clinical activities following a leave of absence:
  - (1) A member of the medical staff or credentialed provider shall request a leave of absence in writing for good cause shown such as medical reasons, educational and research reasons or military service to the chief of clinical service and the director of medical affairs. Such leave of absence shall be granted at the discretion of the chief of the clinical service and the director of medical affairs provided, however, such leave shall not extend beyond the term of the member's or credentialed provider's current appointment. A member of the medical staff or credentialed provider who is experiencing health problems that may impair his or her ability to care for patients has the duty to disclose such impairment to his or her chief of clinical department and the director of medical affairs and the member or credentialed provider shall be placed on immediate medical leave of absence until such time the member or credentialed provider can demonstrate to the satisfaction of the director of medical affairs that the impairment has been sufficiently resolved and can request for reinstatement of clinical activities. During any leave of absence, the member or credentialed provider shall not exercise his or her clinical privileges, and medical staff responsibilities and prerogatives shall be inactive.
  - (2) The member <u>or credentialed provider</u> must submit a written request for the reinstatement of clinical privileges to the chief of the clinical service. The chief of the clinical service shall forward his recommendation to the credentialing committee which, after review and consideration of all relevant information, shall forward its recommendation to the medical staff administrative committee and the quality and professional affairs committee of the Wexner medical center board. The credentials committee, the director of medical affairs, the medical director of credentialing, the chief of the clinical service or the medical staff administrative committee shall have the authority to require any documentation, including advice and consultation from the member's <u>or credentialed provider's</u> treating physician or the committee for practitioner health that might have a bearing on the medical staff member's <u>or credentialed provider's</u> ability to carry out the clinical and educational responsibilities for which the medical staff is seeking privileges. Upon return from a leave of absence for medical reasons the medical staff member <u>or credentialed provider</u> must demonstrate his or her ability to exercise his or her clinical privileges upon return to clinical activity.
  - (3) All members <u>or credentialed providers</u> of the medical staff who take a leave of absence for medical or non-medical reasons must be in good standing on the medical staff upon resumption of clinical activities. No member shall be granted leave of absence in excess of his or her current appointment and the usual procedure for appointment and reappointment, including deadlines for submission of application as set forth in this rule will apply irrespective of the nature of the leave. Absence extending beyond his or her current term of failure to request reinstatement of clinical privileges shall be deemed a voluntary



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resignation from the medical staff<u>and of clinical privileges</u>, and in such event, the member <u>or credentialed provider</u> shall not be entitled to a hearing or appeal.

(Board approval dates: 9/1/1993, 3/3/1995, 4/3/1996, 12/6/1996, 9/1/1999, 12/3/1999, 6/2/2000, 4/5/2002, 2/6/2004, 11/4/2005, 8/6/2007, 2/6/2009, 9/18/2009, 5/14/2010, 10/29/2011, 4/8/2011, 8/31/2012, 2/1/2013, 6/6/2014, 11/7/2014, 11/6/2015, 9/2/2016)

#### 3335-111-05 Peer review and corrective action.

- (A) Informal peer review.
  - (1) All medical staff members agree to cooperate in informal peer review activities that are solely intended to improve the quality of medical care provided to patients at the CHRI.
  - (2) Information indicating a need for informal review, including patient complaints, disagreements, questions of clinical competence, inappropriate conduct and variations in clinical practice identified by the clinical sections departments or divisions and medical staff committees shall be referred to the chair of the practitioner evaluation committee.
  - (3) –The practitioner evaluation committee chair or his or her designee may obtain information or opinions from medical staff members or credentialed providers as well as external peer review consultants pursuant to criteria outlined in these bylaws. The information or opinions from the informal peer review may be presented to the practitioner evaluation committee or another designated peer review committee.

The practitioner evaluation committee chair, or his or her designee, will consult with the affected medical staff member and obtain information or opinions from knowledgeable persons within the medical center as well as external peer review consultants, pursuant to criteria outlined in these bylaws.

- (4) Following the assessment by the practitioner evaluation committee chair or his or her designee, the practitioner evaluation committee may make recommendations for educational actions of additional training, sharing of comparative data or monitoring or provide other forms of guidance to the medical staff member to assist him or her in improving the quality of patient care. Such actions are not regarded as adverse, do not require reporting to any governmental or other agency, and do not invoke a right to any hearing.
- (5) At the conclusion of the evaluation, the practitioner evaluation committee chair or his or her designee submits a report to the applicable clinical department chief and the director of medical affairs. The clinical department chief and the director of medical affairs shall evaluate the matter to determine the appropriate course of action. They shall make an initial written determination on whether:

(1) (a) The matter warrants no further action;

(2)-(b) Informal resolution under this paragraph is appropriate. The clinical department chief and the director of medical affairs shall determine whether to include documentation of the informal resolution in the medical staff member's file. If documentation is included in the member's file, the affected member shall have an opportunity to review it and may make a written response which shall also be placed in the



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file. Informal review under this paragraph is not a procedural prerequisite to the initiation of formal peer review under paragraph (B) of this rule; or

(3)(c) \_-Formal peer review under paragraph (B) of this rule is warranted. In cases where the clinical department chief and director of medical affairs cannot agree, the matter shall be submitted and determined as set forth in paragraph (B) of this rule.

- (B) Formal peer review.
  - (1) No Changes.
  - (2) Formal peer review may be initiated by the clinical department chief, the <u>department chairperson</u> <u>and/or division director-section chief</u>, the director of medical affairs, any member of the medical staff, the chief executive officer of the CHRI, the dean of the college of medicine, any member of the Wexber medical center board, or the vice president for health services. All requests for formal peer review shall be in writing, shall be submitted to the director of medical affairs, and shall be supported by reference to the specific activities or conduct which constitute grounds for the requested action.
  - (3) (4) No Changes.
  - (5) The formal peer review committee shall investigate every request and shall report in writing within thirty days-its findings and recommendations for action to the appropriate clinical department chief and notice given to the section chiefdivision director. In making its recommendation the formal peer review committee may consider as appropriate, relevant literature and clinical practice guidelines, all the opinions and views expressed throughout the review process, and any information or explanations provided by the member under review. Prior to making its report, the medical staff member against whom the action has been requested shall be afforded an opportunity for an interview with the formal peer review committee. At such interview, the medical staff member shall be informed of the specific activities alleged to constitute grounds for formal peer review, and shall be afforded the opportunity to discuss, explain or refute the allegations against the medical staff member. The medical staff member may furnish written or oral information to the formal peer review committee at this time. However, such interview shall not constitute a hearing, but shall be investigative in nature. The medical staff member shall not be represented by an attorney at this interview. The written findings and recommendations for action is expected to be submitted within 90 days, unless an extension is deemed necessary by the committee.
  - (6) Upon receipt of the written report from the formal peer review committee, the appropriate clinical department chief shall, within seven days, make his or her own written determination and forward that determination along with the findings and recommendations of the formal peer review committee to the director of medical affairs, or if required by paragraph (B)(3) of this rule, to the executive vice president for health sciences or designee.
  - (7) Following receipt of the recommendation from the clinical department chief and the report from the formal peer review committee, the director of medical affairs, or the executive vice president for health sciences or designee, shall have ten days to approve or to modify the determination of the clinical department chief. Following receipt of the report of the clinical department chief, the director of medical



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affairs or executive vice president for health sciences or designee shall decide whether the grounds for the requested corrective action are such as should result in a reduction, suspension or revocation of clinical privileges. If the director of medical affairs, or executive vice president for health sciences or designee, decides the grounds are not substantiated, the director of medical affairs will notify the formal peer review committee; clinical department chief and if applicable, the academic department chairperson; division directorsection chief; person(s) who filed the complaint and the affected medical staff member, in writing, that no further action will be taken.

In the event the director of medical affairs or executive vice president for health sciences or designee finds the grounds for the requested corrective action are substantiated, the director of medical affairs shall promptly notify the affected medical staff member of that decision and of the affected medical staff member's right to request a hearing before the medical staff administrative committee pursuant to rule 3335-111-06 of the Administrative Code. The written notice shall also include a statement that the medical staff member's failure to request a hearing in the timeframe prescribed in rule 3335-111-06 of the Administrative Code shall constitute a waiver of rights to a hearing and to an appeal on the matter; a statement that the affected medical staff member shall have the procedural rights found in rule 3335-111-06 of the Administrative Code; and a copy of the rule 3335-111-06 of the Administrative Code. This notification and an opportunity to exhaust the administrative hearing and appeal process shall occur prior to the imposition of the proposed corrective action unless the emergency provisions outlined in paragraph (D) of this rule apply. This written notice by the director of medical affairs shall be sent certified return receipt mail to the affected medical staff member's last known address as determined by university records.

- (8) (9) No Changes.
- (C) Composition of the formal peer review committee.

No Changes.

- (D) Summary suspension.
  - (1) Notwithstanding the provisions of this rule, a member of the medical staff shall have all or any portion of clinical privileges immediately suspended or appointment terminated by the chief executive officer or section chief department chairperson and/or division director, whenever such action must be taken when there is imminent danger to patients or to the patient care operations. Such summary suspension shall become effective immediately upon imposition and the chief executive officer will subsequently notify the medical staff member in writing of the suspension. Such notice shall be by certified return receipt mail to the affected medical staff member's last known address as determined by university records.
  - (2) No Changes.
  - (3) Immediately upon the imposition of a summary suspension, the chief executive officer in consultation with the appropriate—section chief department chairperson and/or division director, shall have the authority to provide for alternative medical coverage for the patients of the suspended medical staff member who remain in the hospital at the time of suspension. The wishes of the patient shall be considered in the selection of such alternative medical coverage. While a summary suspension is in effect,



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the member of the medical staff is ineligible for reappointment to the medical staff. Medical staff and hospital administrative duties and prerogatives are suspended during the summary suspension.

- (E) Automatic suspension and termination-
  - (1) (2) No Changes.
  - (3) Failure to maintain the minimum required type and amount of professional liability insurance with an approved insurer, shall result in immediate and automatic suspension of a medical staff member's appointment and privileges until such time as proof of appropriate insurance coverage is furnished. In the event such proof is not provided within ten days of notice of such suspension, the medical staff member or credentialed provider shall be deemed to no longer comply with medical staff requirements under 3335-111-04 and automatically relinquish have voluntarily terminated—his or her appointment and privileges.
  - (4) Upon exclusion, debarment, or other prohibition from participation in any state or federal health care reimbursement program, or a federal procurement or non-procurement program, the medical staff member's appointment and privileges shall be—immediately and automatically terminate, unless resignation in lieu of automatic terminations is permitted pursuant to rule 3335-43-04(A)(4), suspended until such time as the exclusion, debarment, or prohibition is lifted.
  - (5) (8) No Changes.

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### 3335-111-06 Hearing and appellate review procedure

- (A) Right to hearing before the medical staff administrative committee and to appellate review.
  - (1) When a member of the medical staff has exhausted remedies under paragraph (F) of rule 3335-111-04 of the Administrative Code on reappointments; or under rule 3335-111-05 of the Administrative Code for corrective action; or who has been summarily suspended under paragraph (D) of rule 3335-111-05 of the Administrative Code receives notice of a proposed action by the chief executive officer or the director of medical affairs that will adversely affect reappointment as a member of the medical staff or the exercise of clinical privileges, the staff member shall be entitled to an adjudicatory hearing.
  - (2) A medical staff member shall not be entitled to a hearing under the following circumstances:
    - (a) Denial of the Wexner medical center board to grant a waiver of board certification for a medical staff member.
    - (b) Termination of a medical staff member because of exclusion from participation in any government reimbursement program.



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(c) Voluntary withdrawal of a medical staff application.

(d) Failure to submit a reappointment application.

(e) A leave of absences extending beyond current appointment or failure to request reinstatement of clinical privileges following a leave of absence.

(f) Actions or recommendations resulting from an informal peer review.

(g) Termination of courtesy B medical staff appointments upon approval by the Wexner medical center board.

(32) All hearings and appellate reviews shall be in accordance with the procedural safeguards set forth in this rule to assure that the affected medical staff member is accorded all rights to which the member is entitled.

(B) Request for hearing.

No Changes.

(D) Conduct of hearing.

No Changes.

- (E) Appeal process.
  - (1) (6) No Changes.
  - (7) Any final decision by the Wexner medical center board shall be communicated by the chief executive officer by certified return receipt mail to the affected medical staff member at the member's last known address as determined by university records. The chief executive officer shall also notify in writing the executive vice president for health sciences, the dean of the college of medicine, the chief medical officer of OSU medical center, the vice president for health services, the director of medical affairs, chief of staff, the section chiefdepartment chairperson and/or division director, clinical department chief and the academic department chairperson and the person(s) who initiated the request for formal peer review. The chief executive officer shall take immediate steps to implement the final decision.

(Board approval dates: 9/1/1993, 4/5/2002, 9/6/2002, 2/6/2004, 11/4/2005, 2/6/2009, 9/18/2009, 10/29/2010, 4/8/2011, 11/7/2014, 11/6/2015)

### 3335-111-07 Categories of the medical staff.

The medical staff of the CHRI shall be divided into honorary, physician scholar, attending, associate attending, clinical attending, community associate attending, consulting medical staff and limited designations. All medical staff members with admitting privileges may admit patients in accordance with state law and criteria for standards



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of care established by the medical staff. Medical staff members who do not wish to obtain any clinical privileges shall be exempt from the requirements of medical malpractice liability insurance, DEA registration, demonstration of recent active clinical practice during the last two years and specific annual education requirements as outlined in the list maintained in the chief medical officer's office, but are otherwise subject to the provisions of these bylaws.

#### (A) Honorary staff.

The honorary staff will be composed of those individuals who are recognized for outstanding reputation, notable scientific and professional contributions, and high professional stature in an oncology field of interest. The honorary staff designation is awarded by the Wexner medical center board on the recommendation of the chief executive officer of the CHRI, executive vice president for health sciences, section chiefdepartment chairperson and/or division director, or the credentials committee after approval by the medical staff administrative committee. This is a lifetime appointment. Honorary staff are not entitled to patient care privileges.

#### (B) Physician scholar medical staff.

- (1) Qualifications: The physician scholar medical staff shall be composed of those faculty members of the colleges of medicine and dentistry who are recognized for outstanding reputation, notable scientific and professional contributions, and high professional stature. This medical staff category includes but is not limited to emeritus faculty members. Nominations may be made to the chair of the credentialing committee who shall present the candidate to the medical staff administrative committee for approval.
- (2) Prerogatives: Members of the physician scholar medical staff shall have access to the CHRI and shall be given notice of all medical staff activities and meetings. Members of the physician scholar medical staff shall enjoy all rights of an attending medical staff member except physician scholar members shall not possess clinical privileges.
- (3) Physician scholar medical staff must have either a full license or an emeritus registration by the State Medical Board of Ohio.

### (C) Attending medical staff.

### (1) Qualifications:

The attending staff shall consist of those regular faculty members of the colleges of medicine and dentistry who are licensed or certified in the state of Ohio, whose practice is at least seventy-five percent oncology and with a proven career commitment to oncology as demonstrated by the majority of the following:

Training, current board certification (as specified in paragraph (A)(5) of rule 3335-111-04 of the Administrative Code), publications, grant funding, other funding and experience (as deemed appropriate by the chief executive officer and the section-chiefdepartment chairperson and/or division director); and who satisfy the requirements and qualifications for membership set forth in rule 3335-111-04 of the Administrative Code.

(2) Prerogatives:

No Changes.



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(3) Responsibilities:

No Changes.

(D) Associate attending staff.

No Changes.

- (E) Clinical attending staff.
  - (1) Qualifications:

The clinical attending staff shall consist of those clinical faculty members of the colleges of medicine and dentistry who have training, expertise, and experience in oncology, as determined by the chief executive officer in consultation with the section-chief-department chairperson or division director and who satisfy the requirements and qualifications for membership set forth in rule 3335-111-04 of the Administrative Code.

- (2) Prerogatives:
- No Changes.
- (3) Responsibilities:

No Changes.

(F) Community associate attending staff.

(1) Qualifications:

The community associate attending staff shall consist of those applicants who do not have faculty appointments in any of the academic units of the Ohio state university and who are licensed in the state of Ohio and who satisfy the requirements and qualifications for membership set forth in rule 3335-111-04 of the Administrative Code. All applications for appointment and reappointment to the community associate attending staff shall be made to the chief executive officer for initial evaluation. The chief executive officer shall consult with the clinical department chief and the chairperson of the appropriate academic department and when appropriate may refer each application for completion of the appointment procedure in accordance with pertinent requirements of paragraph (E) or (F) of rule 3335-111-04 of the Administrative Code. The approval of the clinical department chief and the academic department chairperson or section chief shall not be required.

(2) Prerogatives:

The community associate attending staff members may:

- (a) Provide consulting services to James patients.
- (b) Admit patients when the primary diagnosis is cancer or cancer-related.
- (c) Be free to exercise such clinical privileges as are granted pursuant to these bylaws.
- (d) Attend all meetings of the medical staff as non-voting members and attend any and all medical staff or hospital education programs. The community associate attending staff member may not hold elected office in the medical



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staff organization except to serve as a non-voting, ex-officio member of medical staff committees if appointed pursuant to these rules.

(3) Responsibilities:

The community associate attending staff members shall:

- (a) Meet the basic responsibilities set forth in rules 3335-111-02 and 3335-111-03 of the Administrative Code.
- (b) Retain responsibility within their care area of professional competence for the continuous care and supervision of each patient for whom the member is providing care, or arrange a suitable alternative for such care and supervision.
- (c) Actively participate in such quality evaluation and monitoring activities as required by the staff and discharge such staff functions as may be required from time to time.
- (d) Satisfy the requirements set forth in rule 3335-111-13 of the Administrative Code for attendance at staff meetings and meetings of those committees of which they are a member.
- (e) Supervise members of the limited staff in the provision of patient care in accordance with accreditation standards and policies and procedures of approved clinical training programs.
- (GF) Consulting medical staff.

No Other Changes.

(GH) Limited staff.

Limited staff are not considered members of the medical staff, do not have delineated clinical privileges, and do not have the right to vote in general medical staff elections. Except where expressly stated, limited staff are bound by the terms of these bylaws, rules and regulations of the medical staff and the limited staff agreement.

(1) Qualifications:

No Changes.

(2) Responsibilities:

The limited staff shall:

- (a) No Changes.
- (b) No Changes.
- (c) Participate in the care of all patients assigned to the limited staff member under the appropriate supervision of a designated member of the attending medical staff in accordance with accreditation standards and policies and procedures of the clinical training programs. The clinical activities of the limited staff shall be determined by the program director appropriate for the level of education and training. Limited staff shall be permitted to perform only those services that they are authorized to perform by the member of the attending medical staff based



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on the competence of the limited staff to perform such services. The limited staff may admit or discharge patients only when acting on behalf of the attending, associate attending or community associate attending medical staff. The limited staff member shall follow all rules and regulations of the service to which he or she is assigned, as well as the general rules of the CHRI pertaining to limited staff.

- (d) No Changes.
- (e) No Changes.
- (f) Appeal by a member of the limited staff of probation, lack of reappointment promotion, suspension or termination for failure to meet expectations for professional growth or failure to display appropriate humanistic qualities or failure to successfully complete any other competency as required by the accreditation standards of an approved training program will be conducted and limited in accordance with written guidelines established by the respective academic department or training program and approved by the program director of medical affairs and the Ohio state university's graduate medical education committee as delineated in the limited staff agreement and by the graduate medical education policies.

Alleged misconduct by a member of the limited staff, for reasons other than failure to meet expectations of professional growth as outlined above, shall be handled in accordance with rules 3335-111-05 and 3335-111-06 of the Administrative Code.

(3) Failure to meet reasonable expectations:

Failure to meet reasonable expectations may result in sanctions including but not limited to probation, lack of reappointment, suspension or termination. Termination of employment from the limited staff member's residency or fellowship training program limited staff member status shall result in automatic termination of the limited staff member's residency or fellowship appointment pursuant to these bylaws.

- (4) Temporary appointments:
  - (a) No Changes.
  - (b) No Changes.
- (5) Supervision:

Limited staff members shall be under the supervision of an attending, associate attending, or clinical attending or community associate attending medical staff member. Limited staff members shall have no privileges as such but shall be able to care for patients under the supervision and responsibility of their attending, associate attending or, clinical attending or community associate attending medical staff member. The care they extend will be governed by these bylaws and the general rules and regulations of each clinical department. The practice of care shall be limited by the scope of privileges of their attending, associate attending, or clinical attending or community associate attending medical staff member. Any



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concerns or problems that arise in the limited staff member's performance should be directed to the attending, associate attending, or —clinical attending or community associate attending—medical staff member or the director of the training program.

- (a) Limited staff members may write <u>admission, discharge and other</u> orders for the care of patients under the supervision of the attending, associate attending <u>or</u> clinical attending <del>or community associate attending medical staff member.</del>
- (b) All records of limited staff member cases must document involvement of the attending, associate attending, or clinical attending or community associate attending medical staff member in the supervision of the patient's care to include co-signature of the admission order history and physical, operative report, and discharge summary.
- (H4) Associates to the medical staff.

No Other Changes.

(14) Temporary medical staff appointment.

No Other Changes.

- (JK) Clinical privileges.
  - (1) Delineation of clinical privileges:
    - (a) No Changes.
    - (b) Each clinical department and CHRI section\_department and/or division\_shall develop specific clinical criteria and standards for the evaluation of privileges with emphasis on invasive or therapeutic procedures or treatment which represent significant risk to the patient or for which specific professional training or experience is required. Such criteria and standards are subject to the approval of the medical staff administrative committee and the Wexner medical center board.
    - (c) (i) No Changes.
  - (2) Temporary and special privileges:
    - (a) Temporary privileges may be extended to a doctor of medicine, osteopathic medicine, dental surgery, psychologist, podiatry or to a licensed allied health professional upon completion of an application prescribed by the medical staff administrative committee, upon recommendation of



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the chief of the clinical department, and approval by the director of medical affairs. The director of medical affairs, acting as a member and on behalf of the Wexner medical center board, has been delegated responsibility by the Wexner medical center board to grant approval of temporary privileges. The temporary privileges granted shall be consistent with the applicant's training and experience and with clinical department guidelines. Prior to granting temporary privileges, primary source verification of licensure and current competence shall be required. Temporary privileges shall be limited to situations which fulfill an important patient care need and shall not be granted for a period not to exceed one hundred twenty days.

(b) - (g) No Changes.					
(3) Expedited privileges:					
No Changes.					
(4) Podiatric privileges:					
No Changes.					
(5) Psychology privileges:					
No Changes.					
(6) Dental privileges:					
No Changes.					
(7) Oral and maxillofacial surgical privileges:					
No Changes.					
(8) Licensed allied health professionals:					
No Changes.					
(9) Emergency privileges:					
No Changes.					
ivo Citaliges.					



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(10) Disaster privileges:

No Changes.

(11) Telemedicine:

No Changes.

(Board approval dates: 9/1/1993, 3/3/1995, 4/3/1996, 12/6/1996, 9/1/1999, 12/3/1999, 6/2/2000, 4/5/2002, 9/6/2002, 2/6/2004, 11/4/2005, 7/7/2006, 8/6/2006, 2/6/2009, 9/18/2009, 5/14/2010, 10/29/2011, 4/8/2011, 8/31/2012, 2/1/2013, 11/7/2014, 11/6/2015)

#### 3335-111-08 Organization of the CHRI medical staff.

(A) The chief executive officer.

No Changes.

(B) The director of medical affairs (physician-in-chief/chief medical officer of the James cancer hospital).

#### (1) Method of appointment:

The director of medical affairs shall be appointed by the executive vice president for health sciences upon recommendation by the chief executive officer of the James Cancer Hospital. The director of medical affairs is the physician-in-chief and shall be the chief medical officer of the CHRI and must be a member of the attending medical staff of the CHRI.

#### (2) Responsibilities:

The director of medical affairs shall report to the chief executive officer, the executive vice president for health sciences, the CHRI hospital board, and the Wexner medical center board for the quality of patient care provided in the CHRI. The director of medical affairs shall assist the chief executive officer in the administration of medical affairs including quality assurance and credentialing. In addition, the director of medical affairs will decide determines the initial attending status medical staff category appointments, and reappointments and any changes in categories of the medical staff. Ongoing categorization of CHRI faculty.

(C) The chief medical officer of the Ohio state university medical center.

The chief medical officer of the Ohio state university medical center is the senior medical officer for the medical center with the responsibility and authority for all health and medical care delivered at the medical center. The chief medical officer is responsible for overall quality improvement and clinical leadership throughout the medical center, physician alignment, patient safety and medical staff development. The appointment, scope of authority,



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and responsibilities of the chief medical officer shall be as outlined in the Ohio state medical center board bylaws. The director of medical affairs will work collaboratively with the chief medical officer and medical directors of each hospital of the medical center for the: coordination and supervision of patient care and clinical activities, responsibility for the clinical organization of his or her respective hospital, and to establish priorities, jointly with the chief executive officer or executive director of his or her respective hospital, for capital medical equipment, clinical space, and the establishment of new clinical programs, or the revision of existing clinical programs.

(D) The chief quality officer of the Ohio state university medical center.

The chief quality and patient safety officer of the Ohio state university medical center is referred to herein these bylaws as the chief quality officer. The chief quality officer reports to the chief medical officer—for administrative and operational issues and has an independent reporting relationship to the executive vice president for health sciences regarding quality data and patient safety events. The chief quality officer works collaboratively with clinical leadership of the medical center, including medical director of quality for the CHRI, director of medical affairs for the CHRI, nursing leadership and hospital administration. The chief quality officer provides leadership in the development and measurement of the medical center's approach to quality, patient safety and reduction of adverse events. The chief quality officer communicates and implements strategic, operational and programmatic plans and policies to promote a culture where patient safety is an important priority for medical and hospital staff.

(E) Medical director of credentialing.

No Changes.

(F) Associate physician-in-chief.

The associate to the physician in chief oversees the alignment of clinical service lines within the cancer program. The associate serves at the direction of the physician in chief to further the global cancer mission at OSU. The role functions as a key strategic liaison between the physician in chief, chief of staff and the medical staff to strategically grow the footprint of the cancer program. The associate physician in chief reports to the physician in chief of the James.

(GF) Medical director-of surgical services, James surgical services.

The chief of surgical services medical director, James surgical services has oversight of all James designated perioperative services and procedural suites. Working collaboratively with the administrator of perioperative services, the chief of surgical servicesmedical director, James surgical services facilitates the timely sharing of OR resources (including personnel and equipment) across the medical center in order to maximize the efficiency of OR services. The chief of surgical servicesmedical director, James surgical services works with clinical service lines and clinical leadership to coordinate OR services in a manner that enhances the quality of care and safety of services for patients. The chief of surgical servicesmedical director, James surgical services reports to the physician inchief Director of medical affairs of the James.



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-(H) The sections. Professional assignments

Each member of the attending, associate attending, clinical, limited, physician scholar and honorary staff shall be assigned to a <a href="https://example.com/chief-staff-shall-by-the-chief-executive-officer-upon-the-recommendation-of-the-appropriate-academic department chairperson and the credentials committee.">https://example.com/chief-shall-by-the-chief-executive-officer-upon-the-recommendation-of-the-appropriate-academic department chairperson and the credentials committee.</a>

There are four clinical sections: medical oncology, surgical oncology, radiation oncology and pathology. Appointment to a specific section department and/or division-is based on the clinical specialty of the applicant for medical staff membership. Each-section department and/or division-is headed by a section chief department chairperson or division director who has the responsibility to oversee all research and clinical activities conducted by members of the section department and/or division. Specifically, the section chief department chairperson or division director shall be responsible for the following: the development and implementation of policies and procedures that guide and support the provision of service; recommendations re: staffing needs and clinical privileges for all members appointed to the section department and/or division; the orientation and continuing surveillance of the professional performance of all section-department and/or division members; recommendation for space and other resources needed. The section chiefis appointed by the chief executive officer.

(I) Clinical department chief.

No Changes.

(Board approval dates: 9/1/1993, 3/3/1995, 12/6/1996, 12/3/1999, 4/5/2002, 9/6/2002, 2/6/2004, 11/4/2005, 7/7/2006, 2/6/2009, 9/18/2009, 5/14/2010, 2/11/2011, 4/8/2011, 8/31/2012, 2/01/2013, 6/6/2014, 11/6/2015)

3335-111-09 Elected officers of the medical staff of the CHRI.

(A) Chief of staff.

The chief of staff shall:

- (1) (3) No Changes.
- (4) Make medical staff committee appointments jointly with the <u>physician in chiefdirector of medical</u> <u>affairs</u> and chief of staff-elect for approval by the CHRI medical staff administrative committee.
- (5) (6) No Changes.



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(B) Chief of staff-elect.

No Changes.

### (C) Delegates at-large.

Up to two additional at-large member(s) may be appointed to the <u>-medical staff administrative committee</u> at the recommendation of the chief executive officer of the CHRI, subject to the approval of the medical staff administrative committee and subject to review and renewal on a yearly basis every two years. There shall be two delegates at large that are members of the medical staff. Each delegate at large shall be a member of the medical staff administrative committee and shall serve on those committees of the medical center board as appointed by the chairperson of the medical center board.

- (D) Qualifications of officers.
  - (1) Officers must be members of the attending or associate attending staff at the time of their nomination and election and must remain members in good standing during their term of office. Failure to maintain such status shall immediately create a vacancy in the office involved.
  - (2) The chief executive officer and director of medical affairs, chiefs of the clinical departments, department chairperson or division directorsection chiefs, medical directors, associate and/or assistant medical directors are not eligible to serve as chief of staff or chief of staff-elect unless they are replaced in their CHRI administrative role during the period of their term of office.
- (E) Election of officers.
  - (1) (3) No Changes.
  - (4) The committee's nominees will be submitted by electronic or written ballot to all voting members of the medical staff no later than April May.
  - (5) Candidates for the office of chief of staff-elect will be listed and each attending or associate attending staff member may vote for one. Candidates for the at-large positions will be voted upon as a group. Each voting member of the medical staff may vote for two at-large candidates. The two candidates with the highest number of votes will be elected. A majority of the votes is not necessary.
  - (6) No Changes.
- (F) Term of office.



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No Changes.

- (G) Vacancies in office.
  - (1) (2) No Changes.
  - (3) Vacancies in the at-large representatives' positions will be filled by appointment by the chief of staff chief executive officer.

(Board approval dates: 9/1/1993, 3/3/1995, 12/6/1996, 9/1/1999, 4/5/2002, 9/6/2002, 2/6/2004, 11/4/2005, 2/6/2009, 9/18/2009, 2/11/2011, 4/8/2011, 6/6/2014, 9/2/2016)

3335-11-10 Administration of the medical staff of the CHRI

Medical staff committees.

- (A) (B) No Changes.
- (C) Medical staff administrative committee:
  - (1) Composition:

(a) Voting membership includes: chief of staff, chief of staff-elect, immediate past chief of staff, section chiefs clinical department chief chairperson or division director of medical oncology. radiation oncology, surgical encology, and anatomic pathology and molecular pathology;; division chiefs of department chairperson or division director of hematology, gynecologic oncology, otolaryngology/head and neck, hospital medicine, human genetics, infectious diseases. surgical oncology, thoracic surgery, neurological oncology, orthopaedic oncology/sarcoma, pulmonary, critical care and sleep medicine and urology; medical director of James emergency services; clinical department chiefs of anesthesia, physical medicine and rehabilitation, plastic surgery, psychiatry, and radiology; CHRI medical director of quality, CHRI medical director of credentialing, CHRI chief executive officer, CHRI director of medical affairs, director of the division of palliative medicine, chairperson of the cancer subcommittee, CCC director for clinical research, and CCC director for cancer control, and medical director of the James surgical services and associate director of James surgical services. Up to two additional at-large member(s) may be appointed to the MSAC at the recommendation of the chief executive officer of the CHRI, subject to the approval of the medical staff administrative committee and subject to review and renewal on a yearly basis. If a division or section headchairperson or director is a member by



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leadership position, he or she will also fulfill the role of division or section department chief director appointment. The director of medical affairs shall be the chairperson and the chief of staff shall be the vice-chairperson.

(b) Ex-officio non-voting membership includes: the CHRI executive director, the CHRI associate director for professional education, the CHRI chief nursing officer, CHRI executive director of patient services, the medical director of university hospital and/or the chief medical officer of the medical center, the dean of the Ohio state university college of medicine and, the executive vice president for health sciences, and the associate director for medical staff affairs.

(c) - (e) No Changes.

(2) - (4) No Changes.

(D) Credentialing committee of the hospitals of the Ohio state university:

(1) Composition:

The credentialing responsibilities of the medical staff are delegated to the credentialing committee of the hospitals of the Ohio state university, the composition of which shall include representation from the medical staff of each hospital.

The chief medical officer of the medical center shall appoint the credentialing committee of the hospitals of the Ohio state university. The <a href="mailto:chief-of-staff-chiector">chief-of-staff-chie

The credentialing committee of the hospitals of the Ohio state university shall meet at the call of its chair, whom shall be appointed by the chief medical officer of the medical center.

(2) Duties:

(a) - (d) No Changes.

(e) To make recommendations to the medical staff administrative committee through the medical director of credentialing regarding appointment applications and initial requests for clinical privileges. Such recommendations shall include the name, status, department (division and/or departmentdivision/section), medical school and year of graduation, residency and fellowships, medical-related employment since graduation, board certification and recertification, licensure status as well as all other relevant information concerning the applicant's current competence, experience, qualifications, and ability to perform the clinical privileges requested;



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(f) - (I) No Changes.

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No Changes.

- (E) Medical staff bylaws committee:
  - (1) Composition.
- (F) Committee for practitioner health.

No Changes.

- (G) Cancer subcommittee:
  - (1) Composition:

Required to be included as members of the cancer subcommittee are physician representatives from surgery, medical oncology, diagnostic-radiology, radiation oncology, anesthesia, plastic surgery, urology, otolaryngology/head and neck, hematology, gynecologic oncology, thoracic surgery, orthopaedic oncology, neurological oncology, emergency medicine, palliative medicine and pathology, the cancer liaison physician and nonphysician representatives from the cancer registry, administration, nursing, social services, and quality assurance. Other disciplines should be included as appropriate for the institution. The chairperson is appointed at the recommendation of the chief executive officer of the CHRI and the director of medical affairs, subject to the approval of the medical staff administrative committee and subject to review and renewal on a yearly basis.

(2) - (3) No Changes.

(H) Ethics committee.

No Changes.

(I) Practitioner evaluation committee.

No Changes.



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(J) Professionalism consultation committee.

No Changes.

3335-111-11 History and physical.

No changes.

3335-111-12 Amendments and Adoption

No changes.

### 3335-111-13 Meetings and dues.

(A) Meetings.

The medical staff of the CHRI shall conduct scheduled meetings semi-annually. Notice of the meetings will be sent to all medical staff at least two weeks prior to the meeting. Attendance is encouraged, but shall not be a requirement for continued medical staff membership and clinical privileges. A-sSpecial or electronic meetings may be called at the option of the medical staff administrative committee.

(B) No Changes.

3335-11-14 Rules of construction.

No Changes.



Quality and Professional Affairs: 3.28.18 MC Board: 4.4.18 UBOT: 4.6.18

Medical Staff Rules and Regulations – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute

Updated September 2, 2016

01	Ethical pledge.  No Change
02	Admission procedures.  No Change
03	Attending assignment.  No Change
04	Consultations.  No Change
05	Order writing privileges.  No Change
06	Death procedures.  No Change
07	Emergency preparedness.  No Change
80	Surgical case review (tissue committees).  No Change
09	Tissue disposition.  No Change
{00	269460-1}



Quality and Professional Affairs: 3.28.18 MC Board: 4.4.18 UBOT: 4.6.18

Medical Staff Rules and Regulations –
Arthur G. James Cancer Hospital and Richard J. Solove Research Institute
10 Medical records.

(A) (1)-(5) No Change

(6) Records storage, security, and accessibility.

All patient's records, pathological examinations, slides, radiological films, photographic records, cardiographic records, laboratory reports, statistical evaluations, etc., are the property of the CHRI and shall not be taken from the CHRI except on court order, subpoena or statute duly filed with the medical record administrator or the hospital administration. The hospital administration may, under certain conditions, arrange for copies or reproductions of the above records to be made. Such copies may be removed from the hospital after the medical record administrator or the proper administrative authority has received a written receipt thereof. In the case of readmission of the patient, all previous records or copies thereof shall be available for the use of the attending medical staff member.

In general, medical records shall be maintained by the hospital. Records on microfilms, paper, electronic tape recordings, magnetic media, optical disks, and such other acceptable storage techniques shall be used to maintain patient records for twenty-one years for minors and ten years for adults. In the case of readmission of the patient, all records or copies thereof from the past ten/twenty-one years shall be available for the use of the attending medical staff member or other health care providers.

11 Committees.
No Change
12 Standards of practice.
No Change
13 Mechanism for changing rules and regulations.

(7) - (11) No Change

13 Mechanism for changing rules and regulations

No Change

{00269460-1}



Quality and Professional Affairs: 3.28.18 MC Board: 4.4.18

UBOT: 4.6.18

Medical Staff Rules and Regulations –
Arthur G. James Cancer Hospital and Richard J. Solove Research Institute
14 Adoption of the rules and regulations.

No Change

15 Sanctions.

No Change

{00269460-1}

(APPENDIX XLVII)



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### Bylaws of the Medical Staff The Ohio State University Hospitals Chapter 3335-43

#### 3335-43-01 Medical staff name.

No change.

### 3335-43-02 Purpose.

The purpose of the self-governing, democratically organized medical staff, which is accountable to the Ohio state university Wexner medical center board for the quality of care provided to the patients of the Ohio state university hospitals, shall be:

#### (A) - (D) No change.

(E) To govern medical staff and credentialed practitioners these bylaws are not intended to and shall not create any contractual rights between the Ohio state university Wexner medical center and any practitioner. Any and all contracts of affiliation, association or employment shall control contractual and financial relationships between the Ohio state university Wexner medical center and such practitioners.

(Board approval dates: 6/7/2002, 2/2/2007, 9/19/2008, 4/8/2011, 11/7/2014)

#### 3335-43-03 Patients.

No change.

### 3335-43-04 Membership.

- (A) Qualifications
  - (1) No change.
  - (2) All members of the medical staff of the Ohio state university hospitals shall, except as specifically provided in these bylaws, be members of the faculty of the Ohio state university college of medicine, or in the case of dentists, of the Ohio state university college of dentistry..., and shall, All members, except for physician scholar medical staff, shall be duly licensed or certified to practice in the state of Ohio. Members of the limited staff shall possess a valid training certificate, or an unrestricted license from the applicable state board based on the eligibility criteria defined by that board. All members of the medical staff and limited staff and licensed health care professionals with clinical privileges shall comply with provisions of state law and the regulations of the state medical board or other state licensing board if applicable. Only those physicians, dentists, and practitioners of psychology and podiatry who can document their education, training, experience, competence, adherence to the ethics of their profession, dedication to educational and researchgoals, and ability to work with others with sufficient adequacy to assure the Wexner medical center board and the board of trustees of the Ohio state university that any patient treated by them at university hospitals will be given the high quality of medical care provided at university hospitals, shall be qualified for membership on the medical staff of the Ohio state university hospitals.



All applicants for membership, clinical privileges, and members of the medical staff must provide basic health information to fully demonstrate that the applicant or member has, and maintains, the ability to perform requested clinical privileges. The chief medical officer of the medical center, medical directors, the department chairperson, the credentialing committee, the medical staff administrative committee, the quality and professional affairs committee of the Ohio state university Wexner medical center board, or the Ohio state university Wexner medical center board may initiate and request a physical or mental health evaluation of an applicant or member. Such request shall be in writing to the applicant. All members of the medical staff and licensed health care professionals will comply with medical staff and the Ohio state university policies regarding employee and medical staff health and safety; uncompensated care; and will comply with appropriate administrative directives and policies to avoid disrupting those operations of the Ohio state university hospitals which adversely impact overall patient care or which adversely impact the ability of the Ohio state university hospitals employees or staff to effectively and efficiently fulfill their responsibilities. All members of the medical staff and licensed health care professionals shall agree to comply with bylaws, rules and regulations, and policies and procedures adopted by the medical staff administrative committee and the Wexner medical center board, including but not limited to policies on professionalism, behaviors that undermine a culture of safety, annual education and training (list approved by the medical staff administrative committee and maintained in the chief medical officer's office), conflict of interest, HIPAA compliance, and access and communication guidelines. Medical staff members and licensed health care professionals with clinical privileges must also comply with the university integrity program requirements including but not limited to billing, self-referral, ethical conduct and annual education. Medical staff members and licensed health care professionals with clinical privileges must immediately disclose to the chief medical officer and the department chairperson the occurrence of any of the following events: a licensure action in any state, any malpractice claims filed in any state or an arrest by law enforcement.

- (3) All members of the medical staff and credentialed providers must maintain continuous uninterrupted enrollment with all governmental health care programs.
  - (a) It shall be the duty of all medical staff members and credentialed providers to promptly inform the chief medical officer and the corporate credentialing office of any investigation, action taken, or the initiation of any process which could lead to an action taken by any governmental programs.
  - (b) Exclusion of any medical staff member or licensed health care professional credentialed provider from participation in any federal or state government program or suspension from participation, in whole or part, in any federal or state government reimbursement program, shall result in immediate lapse of membership on the medical staff of the Ohio state university hospitals and the immediate lapse of clinical privileges at the Ohio state university hospitals as of the effective date of the exclusion or suspension. Medical staff members may submit a request to resign their medical staff membership to the Chief Medical Officer in lieu of automatic termination. The resignation in lieu of automatic termination shall be discussed at the next credentialing committee and medical staff administrative committee in order to provide recommendations to the Quality and Professional Affairs Committee of the Wexner Medical Center Board. A final determination should be decided by the Quality and Professional Affairs Committee at its next regular meeting.
  - (c) If the medical staff member's or <u>credentialed provider's</u> licensed health care professional's participation in these all governmental programs is fully reinstated, the affected medical staff member or licensed health care professional credentialed provider shall be eligible to apply for



membership and clinical privileges at that time. It shall be the duty of all medical staff members and licensed health care professionals to promptly inform the chief medical officer of any action taken, or the initiation of any process which could lead to such action taken by any of these programs.

(4) - (7) No change.

- (B) (F) No change.
- (G) Resumption of clinical privileges following leave of absence.
  - (1) A member of the medical staff or credentialed provider shall request a leave of absence in writing for good cause shown such as medical reasons, educational and research reasons or military service to the chief of clinical service and the chief medical officer. Such leave of absence shall be granted at the discretion of the chief of the clinical service and the chief medical officer provided, however, such leave shall not extend beyond the term of the member's or credentialed provider's current appointment. A member of the medical staff or credentialed provider who is experiencing health problems that may impair his or her ability to care for patients has the duty to disclose such impairment to his or her chief of clinical department and the chief medical officer and the member or credentialed provider shall be placed on immediate medical leave of absence until such time the member or credentialed provider can demonstrate to the satisfaction of the chief medical officer that the impairment has been sufficiently resolved and can request for reinstatement of clinical activities. During any leave of absence, the member or credentialed provider shall not exercise his or her clinical privileges, and medical staff responsibilities and prerogatives shall be inactive.
  - (2) The member or credentialed provider must submit a written request for the reinstatement of clinical privileges to the chief of the clinical service. The chief of the clinical service shall forward his recommendation to the credentialing committee which, after review and consideration of all relevant information, shall forward its recommendation to the medical staff administrative committee and quality and professional affairs committee of the Wexner medical center board. The credentials committee, the chief medical officer, the chief of the clinical service or the medical staff administrative committee shall have the authority to require any documentation, including advice and consultation from the member's or credentialed provider's treating physician or the committee for practitioner health that might have a bearing on the medical staff member's or credentialed provider's ability to carry out the clinical and educational responsibilities for which the medical staff is seeking privileges. Upon return from a leave of absence for medical reasons the medical staff member or credentialed provider must demonstrate his or her ability to exercise his or her clinical privileges upon return to clinical activity.
  - (3) All members of the medical staff or credentialed providers who take a leave of absence for medical or non-medical reasons must be in good standing upon resumption of clinical activities. No member shall be granted leave of absence in excess or his or her current appointment and the usual procedures for appointment and reappointment, including deadlines for submission of application as set forth in this rule, will apply irrespective of the nature of the leave. Absence extending beyond his or her current term or failure to request reinstatement of clinical privileges shall be deemed a voluntary resignation from the medical staff and of clinical privileges, and in such event, the member or credentialed provider shall not be entitled to a hearing or appeal.



#### 3335-43-05 Peer review and corrective action.

- (A) Informal peer review.
  - (1) All medical staff members agree to cooperate in informal peer review activities that are solely intended to improve the quality of medical care provided to patients at the Ohio state university hospitals.
  - (2) Information indicating a need for informal review, including patient complaints, disagreements, questions of clinical competence, inappropriate conduct and variations in clinical practice identified by the clinical departments or divisions and medical staff committees shall be referred to the chair of the practitioner evaluation committee.

The practitioner evaluation committee chair or his or her designee will consult with the affected medical staff member and obtain information or opinions from knowledgeable persons within the medical center as well as external peer review consultants pursuant to criteria outlined in these bylaws.

- (3) The practitioner evaluation committee chair or his or her designee may obtain information or opinions from medical staff members or credentialed providers as well as external peer review consultants pursuant to criteria outlined in these bylaws. The information or opinions from the informal peer review may be presented to the practitioner evaluation committee or another designated peer review committee.
- (2)(4) Following the assessment by the practitioner evaluation committee chair or his or her designee, the practitioner evaluation committee may make recommendations for educational actions of additional training, sharing of comparative data or monitoring or provide other forms of guidance to the medical staff member to assist him or her in improving the quality of patient care. Such actions are not regarded as adverse, do not require reporting to any governmental or other agency, and do not invoke a right to any hearing.
- (3)(5) At the conclusion of the evaluation, the practitioner evaluation committee chair or his or her designee submits a report to the applicable clinical department chief and the chief medical officer. The chief of the clinical department and the chief medical officer shall evaluate the matter to determine the appropriate course of action. They shall make an initial written determination on whether:
  - (1) (a) The matter warrants no further action;
  - (2)—(b) Informal resolution under this paragraph is appropriate. The chief of the clinical department and the chief medical officer shall determine whether to include documentation of the informal resolution in the medical staff member's file. If documentation is included in the member's file, the affected member shall have an opportunity to review it and may make a written response which shall also be placed in the file. Informal review under this paragraph is not a procedural prerequisite to the initiation of formal peer review under paragraph (B) of this rule; or
  - (3) (c) Formal peer review under paragraph (B) of this rule is warranted.
- (6) In cases where the chief of the clinical department and chief medical officer cannot agree on the need for formal peer review, the matter shall be submitted for formal peer review and determined as set forth in paragraph (B) of this rule.



- (B) Formal peer review.
  - (1) (4) No change.
  - The formal peer review committee shall investigate every request and shall deliver written findings and recommendations for action to the chief of the clinical department. within 30 days. The formal peer review committee may recommend a reduction, suspension or revocation of the medical staff member's clinical privileges or other action as it deems appropriate. In making its recommendation the formal peer review committee may consider, relevant literature and clinical practice guidelines, the opinions and views expressed throughout the review process, information or explanations provided by the member under review, and other relevant information. Prior to making its report, the committee shall afford the medical staff member against whom the action has been requested an opportunity for an interview. At such interview, the medical staff member shall be informed of the specific actions or omissions alleged to constitute grounds for formal peer review and shall be given copies of any statements, reports, opinions or other information compiled at prior stages of the proceedings. The medical staff member may furnish written or oral information to the formal peer review committee at this time and shall be given an opportunity to discuss, explain, or refute the allegations and to respond to any statements, reports or opinions previously compiled in the proceedings. However, such interview shall not constitute a hearing, but shall be investigative in nature. The medical staff member shall not be represented by an attorney at this interview. The written findings and recommendations for action are expected to be submitted within 90 days, unless an extension is deemed necessary by the committee.
  - (6) Upon receipt of the written report and recommendation from the formal peer review committee, the chief of the clinical department shall within seven days make his or her own written recommendation for corrective action and forward that recommendation along with the findings and recommendations of the formal peer review committee to the chief medical officer.
  - (7) The chief medical officer shall have ten days to decide whether to accept, reject or modify the recommendation of the chief of the clinical department. If the chief medical officer decides the grounds are not substantiated, the chief medical officer will notify the formal peer review committee, the chief of the clinical department, the person(s) who filed the complaint and the affected medical staff member, in writing, that no further action will be taken

If the chief medical officer finds the grounds for the requested corrective action are substantiated, the chief medical officer shall promptly notify the affected medical staff member of that decision and the corrective action that will be taken. This notice shall advise the affected medical staff member of his or her right to request a hearing before the medical staff administrative committee pursuant to rule 3335-43-06 of the Administrative Code and shall also include a statement that failure to request a hearing in the timeframe prescribed in this rule shall constitute a waiver of rights to a hearing and to an appeal on the matter and the affected medical staff member shall also be given a copy of the rule 3335-43-06 of the Administrative Code. This notification and an opportunity to exhaust the administrative hearing and appeal process shall occur prior to the imposition of the proposed corrective action unless the emergency provisions outlined in paragraph (D) of this rule apply. This written notice by the chief medical officer shall be sent certified return receipt mail to the affected medical staff member's last known address as determined by university records.



(8) - (9) No change.

(C) - (D) No change.

- (E) Automatic suspension and termination.
  - (1) (2) No change.
  - (3) Failure to maintain the minimum required type and amount of professional liability insurance with an approved insurer, shall result in immediate and automatic suspension of a medical staff member's appointment and privileges until such time as proof of appropriate insurance coverage is furnished. In the event such proof is not provided within ten days of notice of such suspension, the medical staff member or credentialed provider shall be deemed to no longer comply with medical staff requirements under 3335-43-04 and automatically relinquish voluntarily terminated his or her appointment and privileges.
  - (4) Upon exclusion, debarment, or other prohibition from participation in any state or federal health care reimbursement program, or a federal procurement or non-procurement program, the medical staff member's appointment and privileges shall be-immediately and automatically terminate, unless resignation in lieu of automatic terminations is permitted to rule 3335-43-04(A)(3), suspended until such time as the exclusion, debarment, or prohibition is lifted.
  - (5) (9) No change.
- (F) No change.

#### 3335-43-06 Hearing and appeal process.

- (A) Right to hearing and to an appeal.
  - (1) When a member of the medical staff who has exhausted all remedies under paragraphs (E) and (F) of rule 3335-43-04 of the Administrative Code on appointment or reappointments; or under rule 3335-43-05 of the Administrative Code for corrective action; or who has been summarily suspended under paragraph (D) of rule 3335-43-05 of the Administrative Code, or who receives notice of proposed action that will adversely affect membership on the medical staff or the exercise of clinical privileges (see paragraph (A)(6) of rule 3335-73-04 of the Administrative Code), the staff member shall be entitled to an adjudicatory hearing.
  - (2) A medical staff member shall not be entitled to a hearing under the following circumstances:
    - (a) Denial by the Wexner medical center board to grant a waiver of board certification for a medical staff member.
    - (b) Termination of a medical staff member because of exclusion from participation in any government reimbursement program.
    - (c) Voluntary withdrawal of a medical staff application.
    - (d) Failure to submit a reappointment application.



- (e) A leave of absence extending beyond current appointment or failure to request reinstatement of clinical privileges following a leave of absence.
- (f) Actions or recommendations resulting from an informal peer review.
- (g) Termination of courtesy B medical staff appointments upon approval by the Wexner medical center board.
- (3) No change.
- (B) (E) No change.

### 3335-43-07 Categories of the medical staff.

The medical staff of the Ohio state university hospitals shall be divided into seven categories: physician scholar medical staff; attending medical staff; courtesy A medical staff; courtesy B medical staff; community affiliate medical staff; consulting medical staff; and limited staff. Medical staff members who do not wish to obtain any clinical privileges shall be exempt from the requirements of medical malpractice liability insurance, DEA registration, demonstration of recent active clinical practice during the last two years and specific annual education requirements as outlined in the list maintained in the chief medical officer's office, but are otherwise subject to the provisions of these bylaws.

- (A) Physician scholar medical staff.
  - (1) Qualifications: The physician scholar medical staff shall be composed of those faculty members of the colleges of medicine and dentistry who are recognized for outstanding reputation, notable scientific and professional contributions, and high professional stature. This medical staff category includes but is not limited to emeritus faculty members. Nominations may be made to the chair of the credentialing committee who shall present the candidate to the medical staff administrative committee for approval.
  - (2) Prerogatives: Members of the physician scholar medical staff have access to the Ohio state university hospitals and shall be given notice of all medical staff activities and meetings. Members of the physician scholar medical staff shall enjoy all rights of an attending medical staff member except physician scholar members shall not possess clinical privileges.
  - (3) Physician scholar medical staff must have either a full license or an emeritus registration by the state medical board of Ohio.
- (B) (D) No change.
- (E) Limited staff.

Limited staff are not considered full members of the medical staff, do not have delineated clinical privileges and do not have the right to vote in general medical staff elections. Except where expressly stated, members of the limited staff are bound by the terms of these bylaws, the rules and regulations of the medical staff, and the limited staff agreement.

(1) Qualifications

No change.



#### (2) Responsibilities:

- (a) (d) No change.
- (f) Appeal by a member of the limited staff of probation, lack of—reappointment promotion, suspension or termination for failure to meet expectations for professional growth or failure to display appropriate humanistic qualities or failure to successfully complete any other competency as required by the accreditation standards of an approved training program will be conducted and limited in accordance with written guidelines established by the respective department or training program and approved by the medicalprogram director and the Ohio state university hospitals graduate medical education committee as delineated in the limited staff agreement and by the graduate medical education policies.

Alleged misconduct by a member of the limited staff, for reasons other than failure to meet expectations of professional growth as outlined above, shall be handled in accordance with rules 3335-43-05 and 3335-43-06 of the Administrative Code.

(3) Failure to meet reasonable expectations.

Failure to meet reasonable expectations may result in sanctions including but not limited to probation, lack of reappointment, suspension or termination.—Termination of employment from the limited staff member's residency or fellowship training program limited staff member status shall result in automatic termination of the limited staff member's residency or fellowship appointment pursuant to these bylaws.

- (4) Temporary appointments. No change.
- (5) Supervision

Limited staff members shall be under the supervision of an attending or courtesy A medical staff member. Limited staff members shall have no privileges as such but shall be able to care for patients under the supervision and responsibility of their attending or courtesy A medical staff member. The care they extend will be governed by these bylaws and the general rules and regulations of each clinical department. The practice of care shall be limited by the scope of privileges of their attending or courtesy A medical staff member. Any concerns or problems that arise in the limited staff member's performance should be directed to the attending or courtesy A medical staff member or the director of the training program.

- (a) Limited staff members may admit and write admission, discharge and other orders for the care of patients under the supervision of the attending or courtesy A medical staff member.
- (b) All records of limited staff member cases must document involvement of the attending or courtesy A medical staff member in the supervision of the patient's care to include co-signature of the <u>admission order</u>, history and physical, operative report, and discharge summary.
- (F) (H) No change.
- (I) Clinical privileges.
  - (1) Delineation of clinical privileges. No change.



### (2) Temporary privileges:

(a) Temporary privileges may be extended to a doctor of medicine, osteopathic medicine, dental surgery, psychologist, podiatry or to a licensed health care professional upon completion of an application prescribed by the medical staff administrative committee, upon recommendation of the chief of the clinical department, and approval by the chief medical officer. The chief medical officer acting as a member and on behalf of the Wexner Medical Center board, has been delegated responsibility by the Wexner medical center board to grant approval of temporary privileges. The temporary privileges granted shall be consistent with the applicant's training and experience and with clinical department guidelines. Prior to granting temporary privileges, primary source verification of licensure and current competence shall be required. Temporary privileges shall be limited to situations which fulfill an important patient-care need, and shall be granted for a period not to exceed one hundred twenty days.

(3) – (11) No change.

#### 3335-43-08 Organization of the medical staff.

No change.

### 3335-43-09 Elected officers of the medical staff of the Ohio state university hospitals.

- (A) (D) No change.
- (E) Election of officers.
  - (1) (3) No change.
  - (4) The committee's nominees shall be submitted to all voting members of the attending staff no later than March-May first of the election year.
  - (5) (6) No change.
- (F) (G) No change.

#### 3335-43-10 Administration of the medical staff of the Ohio state university hospitals

(A) Chief medical officer.

The chief clinical officer functions as the chief medical officer as referred to herein these bylaws. The chief medical officer is the senior medical officer for the medical center with the responsibility and authority for all health and medical care delivered at the medical center. The chief medical officer is responsible for overall quality improvement and clinical leadership throughout the medical center, physician alignment, patient safety and medical staff development. The appointment, scope of authority, and responsibilities of the chief medical officer shall be as outlined in the Ohio state university Wexner medical center board bylaws.

(B) Chief quality and patient safety officer.



The chief quality and patient safety officer of the Ohio state university Wexner medical center is referred to herein these bylaws as the chief quality officer. The chief quality officer reports to the chief medical officer\_for administrative and operational issues and has an independent reporting relationship to the executive vice president for health sciences regarding quality data and patient safety-events. The chief quality officer works collaboratively with clinical leadership of the medical center, including the director of medical affairs for the James cancer hospital, nursing leadership and hospital administration. The chief quality officer provides leadership in the development and measurement of the medical center's approach to quality, patient safety and reduction of adverse events. The chief quality officer communicates and implements strategic, operational and programmatic plans and policies to promote a culture where patient safety is an important priority for medical and hospital staff.

- (C) (E) No change.
- (F) Credentialing committee of the hospitals of the Ohio state university:
  - (1) Composition:

The credentialing responsibilities of medical staff are delegated to the credentialing committee of the hospitals of the Ohio state university, the composition of which shall include representation from the medical staff of each health system hospital.

The credentialing committee of the hospitals of the Ohio state university shall be appointed by the chief medical officer. The chief of staff, director of medical affairs or and medical directors of each health system hospital shall make recommendations to the chief medical officer for representation on the credentialing committee of the hospitals of the Ohio state university.

The credentialing committee of the hospitals of the Ohio state university shall meet at the call of its chair, who shall be appointed by the chief medical officer of the health system.

- (2) Duties:
  - (a) (d) No change.
  - (e) To make recommendations to the medical staff administrative committee through the chief medical officer chairperson of the credentialing committee regarding appointment applications and initial requests for clinical privileges. Such recommendations shall include the name, status, department (division), medical school and year of graduation, residency and fellowships, medical-related employment since graduation, board certification and recertification, licensure status as well as all other relevant information concerning the applicant's current competence, experience, qualifications, and ability to perform the clinical privileges requested;
  - (f) (m) No change.
- (3) No change.
- (G) (M) No change.



UH Bylaws Committee: 10.09.2017 MSAC: 12.13.2017 Medical Staff Vote: 01.05.2018 Quality & Professional Affairs: 3.27.2018 MC Board: 4.04.2018 UBOT: 4.06.2018

3335-43-11 History and physical.

No change.

3335-43-12 Meetings and dues.

(A) Meetings.

The medical staff of the Ohio state university hospitals shall conduct scheduled meetings twice yearly. Notice of the meeting shall be sent to all medical staff at least two weeks prior to the meeting. Attendance is encouraged, but shall not be a requirement for continued medical staff membership and clinical privileges. Special <a href="mailto:and/or electronic">and/or electronic</a> meetings of the medical staff may be called at the option of the medical staff administrative committee.

3335-43-13 Amendments and adoption.

No change.

3335-43-14 Rules of construction.

No change.

**APPENDIX I** 

No change.

APPENDIX II

No change.

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Quality and Professional Affairs: 3.28.18 MC Board: 4.4.18 UBOT: 4.6.18

# MEDICAL STAFF RULES AND REGULATIONS The Ohio State University Hospitals

Updated September 2, 2016

84-01	Ethical pledge.
	No change.
84-02	Admission procedures.
	No change.
84-03	Attending assignment.
	No change.
84-04	Consultations.
	No change.
84-05	Privileges for giving orders.
	No change.
84-06	Death and autopsy procedures.
	No change.
84-07	Disaster plan.
	No change.
84-08	Emergency care.
	No change.
84-09	Surgical case review.
	No change.
84-10	Tissue disposition.
	No change.
84-11	Committees and policy groups.
	No change.



Quality and Professional Affairs: 3.28.18 MC Board: 4.4.18 UBOT: 4.6.18

## MEDICAL STAFF RULES AND REGULATIONS The Ohio State University Hospitals

Updated September 2, 2016

### 84-12 Medical records.

(A)(1) - (5) No change.

(6) Records storage and security.

In general, medical records shall be maintained by the hospital. Records on microfilms, paper, electronic tape recordings, magnetic media, optical disks, and such other acceptable storage techniques shall be used to maintain patient records for twenty-one years for minors and ten years for adults. In the case of readmission of the patient, all records or copies thereof from the past ten/twenty-one years shall be available for the use of the attending medical staff member or other health care providers.

(7) - (10) No change.

### 84-13 Operating room committee.

No change.

### 84-14 Pharmacy and therapeutics committee.

No change.

### 84-15 Transfusion and isoimmunization committee.

No change.

### 84-16 Standards of practice.

No change.

### 84-17 Mechanism for changing rules and regulations.

No change.

#### 84-18 Adoption of the rules and regulations.

No change.

#### 84-19 Sanctions.

No change.

(APPENDIX XLVIII)

### The James



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# Bylaws of the Medical Staff of the Arthur G. James Cancer Hospital and Richard J. Solove Research Institute Chapter 3335-111

3335-111-01 Medical staff name.

No changes.

#### 3335-111-02 Purpose.

(E) To govern medical staff credentialed practitioners and these Bylaws are not intended to and shall not create any contractual rights between the Ohio state university Wexner medical center and any practitioner. Any and all contracts of affiliation, association or employment shall control contractual and financial relationships between the Ohio state university Wexner medical center and such practitioners.

#### 3335-111-03 Patients.

No changes.

#### 3335-111-04 Membership.

- (A) Qualifications.
  - (1) Membership on the medical staff of the CHRI is a privilege extended to doctors of medicine, osteopathic medicine, dentistry, and to practitioners of psychology and podiatry who consistently meet the qualifications, standards, and requirements set forth in the bylaws, rules and regulations of the medical staff, and the board of trustees of the Ohio state university. Membership on the medical staff is available on an equal opportunity basis without regard to race, color, creed, religion, sexual orientation, national origin, gender, age, handicap, genetic information or veteran/military status. Doctors of medicine, osteopathic medicine, dentistry, and practitioners of psychology and podiatry in faculty and administrative positions who desire medical staff membership shall be subject to the same policies and procedures as all other applicants for the medical staff.
  - (2) All members of the medical staff of the CHRI, except community associate attending staffphysician scholar medical staff, shall be members of the faculty of the Ohio state university college of medicine, or in the case of dentists, of the Ohio state university college of dentistry, and shall be duly licensed or certified to practice in the state of Ohio. Members of the limited staff shall possess a valid training certificate, or an unrestricted license from the applicable state board based on the eligibility criteria defined by that board. All members of the medical staff and limited staff and licensed health care professionals with clinical privileges shall comply with provisions of state law and the regulations of the respective state medical board or other state licensing board if applicable. Only those physicians, dentists, and practitioners of psychology and podiatry who can document their education, training, experience, competence, adherence to the ethics of their profession, dedication to educational and research goals and ability to work with others with sufficient adequacy to assure the Wexner medical center board and the board of trustees of the Ohio state university that any patient treated by them at the CHRI will be given high quality medical care provided at CHRI, shall be qualified for



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eligibility for membership on the medical staff of the CHRI. Except for community associate staff, CHRI medical staff members shall also hold appointments to the medical staff of the Ohio state university hospitals for consulting purposes. Loss of such appointment shall result in immediate termination of membership on the CHRI medical staff and immediate termination of clinical privileges as of the effective date of the Ohio state university hospitals appointment termination. This consequence does not apply to an individual's suspension for completion of medical records. If the medical staff member regains an appointment to the Ohio state university hospitals medical staff, the affected medical staff member shall be eligible to apply for CHRI medical staff must provide basic health information to fully demonstrate that the applicant or members has, and maintains, the ability to perform requested clinical privileges. The director of medical affairs of the CHRI, the medical director of credentialing, the department chairperson, the credentialing committee, the medical staff administrative committee, the quality and professional affairs committee of the Ohio state university Wexner medical center board, or the Ohio state university Wexner medical center board may initiate and request a physical or mental health evaluation of an applicant or member. Such request shall be in writing to the applicant.

- (3) All members of the medical staff and licensed health care professionals will comply with medical staff and the CHRI policies regarding employee and medical staff health and safety, provision of uncompensated care, and will comply with appropriate administrative directives and policies which, if not followed, could adversely impact overall patient care or may adversely impact the ability of the CHRI employees or staff to effectively and efficiently fulfill their responsibilities. All members of the medical staff and licensed health care professionals shall agree to comply with bylaws, rules and regulations, and policies and procedures adopted by the medical staff administrative committee and the Wexner medical center board, including but not limited to policies on professionalism, behaviors that undermine a culture of safety, annual education and training (list approved by the medical staff administrative committee and maintained in the chief medical officer's office), conflict of interest, HIPAA compliance and access and communication guidelines. Medical staff members and licensed health care professionals with clinical privileges must also comply with the university integrity program requirements including but not limited to billing, self referral, ethical conduct and annual education.
- (4) All members of the medical staff and credentialed providers must maintain continuous uninterrupted enrollment with all governmental healthcare programs. This includes any federal and state government programs.
  - (a) It shall be the duty of all medical staff members and credentialed providers to promptly inform the chief medical officer and the corporate credentialing office of any investigation, action taken, or the initiation of any process which could lead to an action taken by any governmental program.
  - (b) Exclusion of any medical staff member or allied health professional credentialed provider from participation in any federal or state government program or suspension from participation, in whole or in part, in any federal or state government reimbursement program, shall result in immediate lapse of membership on the medical staff of the CHRI and the immediate lapse of clinical privileges at the CHRI as of the effective date of the exclusion or suspension. Medical staff members may submit a request to resign their medical



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staff membership to the Chief Medical Officer in lieu of automatic termination. The resignation in lieu of automatic termination shall be discussed at the next credentialing committee and medical staff administrative committee in order to provide recommendations to the Quality and Professional Affairs Committee of the Quality and Professional Affairs Committee at its next regular meeting.

(a)(c) If the medical staff member's or allied health professional's credentialed provider's participation in these all governmental programs is fully reinstated, the affected medical staff member or allied health professional credentialed provider shall be eligible to apply for membership and clinical privileges at that time. It shall be the duty of all medical staff members and allied health professionals to promptly inform the director of medical affairs or medical director of credentialing of any action taken, or the initiation of any process, which could lead to such action taken by any of these programs.

(5) - (6) No Changes.

(7) Applicants for community associate attending medical staff category, practicing in a CHRI unit at another hospital, must have and maintain clinical privileges and active medical staff membership at that hospital.

(8) - (10) No Changes.

(B) Application for membership.

No Changes.

#### (C) Terms of appointment.

Initial appointment to the medical staff, except for the honorary category, shall be for a period not to exceed twenty-four months. An appointment or grant of privileges for a period of less than twenty-four months shall not be deemed an adverse action. During the first six months of the initial appointment, except medical staff appointments without clinical privileges, appointees shall be subject to focused professional practice evaluation (FPPE) in order to evaluate the privilege-specific competence of the practitioner who does not have documented evidence of competently performing the requested privilege at the organization pursuant to these bylaws. FPPE requires the evaluation by the clinical department chief with oversight by the credentials committee and the medical staff administrative committee. In the case of community associate attendings, receipt of the positive evaluation provided by the clinical department chief in the primary hospital in which they hold privileges is required.

The provisional appointee identifies the primary hospital. Following the six month FPPE period, the clinical department chief may: (1) recommend the initial appointee to transition to ongoing professional practice evaluation (OPPE), which is described later in these bylaws to the medical staff administrative committee; (2) extend the FPPE period, which is not considered an adverse action, for an additional six months not to exceed a



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total of twelve months for purposes of further monitoring and evaluation; or (3) terminate the initial appointee's medical staff membership and clinical privileges. In the event that the medical staff administrative committee recommends that an adverse action be taken against an initial appointee, the initial appointee shall be entitled to the provisions of due process as outlined in these bylaws.

(D) Professional ethics.

No Changes.

- (E) Procedure for appointment.
  - (1) (3) No Changes.
  - (4) The clinical department chief shall be responsible for investigating and verifying the character, qualifications and professional standing of the applicants by making inquiry of the primary source of such information and shall within thirty days of receipt of the completed application, submit a report of those findings along with a recommendation on medical staff membership and clinical privileges to the applicant's respective CHRI department chairperson and/or division directorsection chief. Licensed allied health professional applicants will have their clinical department chief's report submitted to the subcommittee of the credentials committee charged with review of applications for associates to the medical staff.
  - (5) The <u>department chairperson and/or division director section chiefs</u>-shall receive all initial signed and verified applications from the appropriate clinical department chief and shall make a recommendation to the medical director of credentialing on each application. The medical director of credentialing shall make an initial determination as to whether the application is complete. The credentials committee, the medical staff administrative committee, the quality and professional affairs committee, and the Wexner medical center board have the right to render an application incomplete, and therefore not able to be processed, if the need arises for additional or clarifying information. The medical director of credentialing shall forward all completed applications to the credentials committee.
  - (6) (11) No Changes.
  - (12) The recommendation of the medical staff administrative committee regarding an appointment decision shall be made within thirty days of receipt of the credentials committee recommendation and shall be communicated by the medical director of credentialing, along with the recommendation of the director of medical affairs, to the quality and professional affairs committee of the Wexner medical center board, and thereafter to the Wexner medical center board. When the Wexner medical center board has acted, the chair of the Wexner medical center board shall instruct the director of medical affairs to transmit the final decision to the clinical department chief, the applicant, and the respective <u>department</u> chairperson and/or division directorsection chief.
  - (13) No Changes.



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(14) The director of medical affairs, who may make a separate recommendation to the Wexner medical center board, shall directly communicate the final recommendation of the medical staff administrative committee to the Wexner medical center board. When the Wexner medical center board has acted, the director of medical affairs will transmit the final decision to the clinical department chief, the applicant, the respective department chairperson and/or division directorsection chief, and the Ohio state university board of trustees.

- (F) Procedure for reappointment.
  - (1) No Changes.
  - (2) The reappointment application shall include all information necessary to update and evaluate the qualification of the applicant. The clinical department chief shall review the information available on each applicant for reappointment and shall make recommendations regarding reappointment to the medical staff and for granting of privileges for the ensuing appointment period. The clinical department chief's recommendation shall be transmitted in writing along with the signed and completed reappointment forms to the appropriate department chairperson and/or division director section chief at least forty-five days prior to the end of the individual's appointment. The terms of paragraphs (A), (B), (C), (D), (E)(1), and (E)(2) of this rule shall apply to all applicants for reappointment. Only completed applications for reappointment shall be considered by the credentials committee.
  - (3) (4) No Changes.
  - (5) The clinical department chief shall submit a report of those findings along with a recommendation on reappointment to the applicant's respective CHRI department chairperson and/or division director section chief. Licensed allied health professional applicants will have their clinical department chief's report submitted to the subcommittee of the credentials committee charged with review of application for associates to the medical staff. The department chairperson and/or division director section chief-shall review the reappointment application and forward to the medical director of credentialing with a recommendation for reappointment. The medical director of credentialing shall forward the reappointment forms and the recommendations of the clinical department chief and department chairperson and/or division director section chief to the credentials committee. The credentials committee shall review the request for reappointment in the same manner, and with the same authority, as an original application for medical staff membership. The credentials committee shall review all aspects of the reappointment application including source verification of the member's quality assurance record for continuing membership qualifications and for continuing clinical privileges. The credentials committee shall review each member's performance-based profile to ensure that all medical staff members deliver the same level of quality of care with similar delineated clinical privileges across all clinical departments and across all categories of medical staff membership.
  - (6) (8) No Changes.
  - (9) The medical staff administrative committee shall review each request for reappointment in the same manner and with the same authority as an original application for appointment to the medical staff and shall accept, reject, or modify the request for reappointment in the same manner and with the same



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authority as an original application. The recommendation of the medical staff administrative committee regarding reappointment shall be communicated by the medical director of credentialing, along with the recommendation of the director of medical affairs, to the quality and professional affairs committee of the Wexner medical center board, and thereafter to the Wexner medical center board. When the Wexner medical center board has acted, the chair of the Wexner medical center board shall instruct the director of medical affairs to transmit the final decision to the clinical department chief, the applicant, and the department chairperson and/or division director<del>section chief.</del>

(10) - (11) No Changes.

- (G) Resumption of clinical activities following a leave of absence:
  - (1) A member of the medical staff or credentialed provider shall request a leave of absence in writing for good cause shown such as medical reasons, educational and research reasons or military service to the chief of clinical service and the director of medical affairs. Such leave of absence shall be granted at the discretion of the chief of the clinical service and the director of medical affairs provided, however, such leave shall not extend beyond the term of the member's or credentialed provider's current appointment. A member of the medical staff or credentialed provider who is experiencing health problems that may impair his or her ability to care for patients has the duty to disclose such impairment to his or her chief of clinical department and the director of medical affairs and the member or credentialed provider shall be placed on immediate medical leave of absence until such time the member or credentialed provider can demonstrate to the satisfaction of the director of medical affairs that the impairment has been sufficiently resolved and can request for reinstatement of clinical activities. During any leave of absence, the member or credentialed provider shall not exercise his or her clinical privileges, and medical staff responsibilities and prerogatives shall be inactive.
  - (2) The member <u>or credentialed provider</u> must submit a written request for the reinstatement of clinical privileges to the chief of the clinical service. The chief of the clinical service shall forward his recommendation to the credentialing committee which, after review and consideration of all relevant information, shall forward its recommendation to the medical staff administrative committee and the quality and professional affairs committee of the Wexner medical center board. The credentials committee, the director of medical affairs, the medical director of credentialing, the chief of the clinical service or the medical staff administrative committee shall have the authority to require any documentation, including advice and consultation from the member's <u>or credentialed provider's</u> treating physician or the committee for practitioner health that might have a bearing on the medical staff member's <u>or credentialed provider's</u> ability to carry out the clinical and educational responsibilities for which the medical staff is seeking privileges. Upon return from a leave of absence for medical reasons the medical staff member <u>or credentialed provider</u> must demonstrate his or her ability to exercise his or her clinical privileges upon return to clinical activity.
  - (3) All members <u>or credentialed providers</u> of the medical staff who take a leave of absence for medical or non-medical reasons must be in good standing on the medical staff upon resumption of clinical activities. No member shall be granted leave of absence in excess of his or her current appointment and the usual procedure for appointment and reappointment, including deadlines for submission of application as set forth in this rule will apply irrespective of the nature of the leave. Absence extending beyond his or her current term of failure to request reinstatement of clinical privileges shall be deemed a voluntary



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resignation from the medical staff<u>and of clinical privileges</u>, and in such event, the member <u>or credentialed provider</u> shall not be entitled to a hearing or appeal.

(Board approval dates: 9/1/1993, 3/3/1995, 4/3/1996, 12/6/1996, 9/1/1999, 12/3/1999, 6/2/2000, 4/5/2002, 2/6/2004, 11/4/2005, 8/6/2007, 2/6/2009, 9/18/2009, 5/14/2010, 10/29/2011, 4/8/2011, 8/31/2012, 2/1/2013, 6/6/2014, 11/7/2014, 11/6/2015, 9/2/2016)

#### 3335-111-05 Peer review and corrective action.

- (A) Informal peer review.
  - (1) All medical staff members agree to cooperate in informal peer review activities that are solely intended to improve the quality of medical care provided to patients at the CHRI.
  - (2) Information indicating a need for informal review, including patient complaints, disagreements, questions of clinical competence, inappropriate conduct and variations in clinical practice identified by the clinical sections departments or divisions and medical staff committees shall be referred to the chair of the practitioner evaluation committee.
  - (3) –The practitioner evaluation committee chair or his or her designee may obtain information or opinions from medical staff members or credentialed providers as well as external peer review consultants pursuant to criteria outlined in these bylaws. The information or opinions from the informal peer review may be presented to the practitioner evaluation committee or another designated peer review committee.

The practitioner evaluation committee chair, or his or her designee, will consult with the affected medical staff member and obtain information or opinions from knowledgeable persons within the medical center as well as external peer review consultants, pursuant to criteria outlined in these bylaws.

- (4) Following the assessment by the practitioner evaluation committee chair or his or her designee, the practitioner evaluation committee may make recommendations for educational actions of additional training, sharing of comparative data or monitoring or provide other forms of guidance to the medical staff member to assist him or her in improving the quality of patient care. Such actions are not regarded as adverse, do not require reporting to any governmental or other agency, and do not invoke a right to any hearing.
- (5) At the conclusion of the evaluation, the practitioner evaluation committee chair or his or her designee submits a report to the applicable clinical department chief and the director of medical affairs. The clinical department chief and the director of medical affairs shall evaluate the matter to determine the appropriate course of action. They shall make an initial written determination on whether:

(1) (a) The matter warrants no further action;

(2)-(b) Informal resolution under this paragraph is appropriate. The clinical department chief and the director of medical affairs shall determine whether to include documentation of the informal resolution in the medical staff member's file. If documentation is included in the member's file, the affected member shall have an opportunity to review it and may make a written response which shall also be placed in the



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file. Informal review under this paragraph is not a procedural prerequisite to the initiation of formal peer review under paragraph (B) of this rule; or

(3)(c) \_-Formal peer review under paragraph (B) of this rule is warranted. In cases where the clinical department chief and director of medical affairs cannot agree, the matter shall be submitted and determined as set forth in paragraph (B) of this rule.

- (B) Formal peer review.
  - (1) No Changes.
  - (2) Formal peer review may be initiated by the clinical department chief, the <u>department chairperson</u> <u>and/or division director-section chief</u>, the director of medical affairs, any member of the medical staff, the chief executive officer of the CHRI, the dean of the college of medicine, any member of the Wexber medical center board, or the vice president for health services. All requests for formal peer review shall be in writing, shall be submitted to the director of medical affairs, and shall be supported by reference to the specific activities or conduct which constitute grounds for the requested action.
  - (3) (4) No Changes.
  - (5) The formal peer review committee shall investigate every request and shall report in writing within thirty days-its findings and recommendations for action to the appropriate clinical department chief and notice given to the section-chiefdivision director. In making its recommendation the formal peer review committee may consider as appropriate, relevant literature and clinical practice guidelines, all the opinions and views expressed throughout the review process, and any information or explanations provided by the member under review. Prior to making its report, the medical staff member against whom the action has been requested shall be afforded an opportunity for an interview with the formal peer review committee. At such interview, the medical staff member shall be informed of the specific activities alleged to constitute grounds for formal peer review, and shall be afforded the opportunity to discuss, explain or refute the allegations against the medical staff member. The medical staff member may furnish written or oral information to the formal peer review committee at this time. However, such interview shall not constitute a hearing, but shall be investigative in nature. The medical staff member action is expected to be submitted within 90 days, unless an extension is deemed necessary by the committee.
  - (6) Upon receipt of the written report from the formal peer review committee, the appropriate clinical department chief shall, within seven days, make his or her own written determination and forward that determination along with the findings and recommendations of the formal peer review committee to the director of medical affairs, or if required by paragraph (B)(3) of this rule, to the executive vice president for health sciences or designee.
  - (7) Following receipt of the recommendation from the clinical department chief and the report from the formal peer review committee, the director of medical affairs, or the executive vice president for health sciences or designee, shall have ten days to approve or to modify the determination of the clinical department chief. Following receipt of the report of the clinical department chief, the director of medical



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affairs or executive vice president for health sciences or designee shall decide whether the grounds for the requested corrective action are such as should result in a reduction, suspension or revocation of clinical privileges. If the director of medical affairs, or executive vice president for health sciences or designee, decides the grounds are not substantiated, the director of medical affairs will notify the formal peer review committee; clinical department chief and if applicable, the academic department chairperson; division directorsection chief; person(s) who filed the complaint and the affected medical staff member, in writing, that no further action will be taken.

In the event the director of medical affairs or executive vice president for health sciences or designee finds the grounds for the requested corrective action are substantiated, the director of medical affairs shall promptly notify the affected medical staff member of that decision and of the affected medical staff member's right to request a hearing before the medical staff administrative committee pursuant to rule 3335-111-06 of the Administrative Code. The written notice shall also include a statement that the medical staff member's failure to request a hearing in the timeframe prescribed in rule 3335-111-06 of the Administrative Code shall constitute a waiver of rights to a hearing and to an appeal on the matter; a statement that the affected medical staff member shall have the procedural rights found in rule 3335-111-06 of the Administrative Code; and a copy of the rule 3335-111-06 of the Administrative Code. This notification and an opportunity to exhaust the administrative hearing and appeal process shall occur prior to the imposition of the proposed corrective action unless the emergency provisions outlined in paragraph (D) of this rule apply. This written notice by the director of medical affairs shall be sent certified return receipt mail to the affected medical staff member's last known address as determined by university records.

- (8) (9) No Changes.
- (C) Composition of the formal peer review committee.

No Changes.

- (D) Summary suspension.
  - (1) Notwithstanding the provisions of this rule, a member of the medical staff shall have all or any portion of clinical privileges immediately suspended or appointment terminated by the chief executive officer or section chief department chairperson and/or division director, whenever such action must be taken when there is imminent danger to patients or to the patient care operations. Such summary suspension shall become effective immediately upon imposition and the chief executive officer will subsequently notify the medical staff member in writing of the suspension. Such notice shall be by certified return receipt mail to the affected medical staff member's last known address as determined by university records.
  - (2) No Changes.
  - (3) Immediately upon the imposition of a summary suspension, the chief executive officer in consultation with the appropriate—section—chief department chairperson and/or division director, shall have the authority to provide for alternative medical coverage for the patients of the suspended medical staff member who remain in the hospital at the time of suspension. The wishes of the patient shall be considered in the selection of such alternative medical coverage. While a summary suspension is in effect,



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the member of the medical staff is ineligible for reappointment to the medical staff. Medical staff and hospital administrative duties and prerogatives are suspended during the summary suspension.

- (E) Automatic suspension and termination-
  - (1) (2) No Changes.
  - (3) Failure to maintain the minimum required type and amount of professional liability insurance with an approved insurer, shall result in immediate and automatic suspension of a medical staff member's appointment and privileges until such time as proof of appropriate insurance coverage is furnished. In the event such proof is not provided within ten days of notice of such suspension, the medical staff member or credentialed provider shall be deemed to no longer comply with medical staff requirements under 3335-111-04 and automatically relinquish have voluntarily terminated—his or her appointment and privileges.
  - (4) Upon exclusion, debarment, or other prohibition from participation in any state or federal health care reimbursement program, or a federal procurement or non-procurement program, the medical staff member's appointment and privileges shall be—immediately and automatically terminate, unless resignation in lieu of automatic terminations is permitted pursuant to rule 3335-43-04(A)(4), suspended until such time as the exclusion, debarment, or prohibition is lifted.
  - (5) (8) No Changes.

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#### 3335-111-06 Hearing and appellate review procedure

- (A) Right to hearing before the medical staff administrative committee and to appellate review.
  - (1) When a member of the medical staff has exhausted remedies under paragraph (F) of rule 3335-111-04 of the Administrative Code on reappointments; or under rule 3335-111-05 of the Administrative Code for corrective action; or who has been summarily suspended under paragraph (D) of rule 3335-111-05 of the Administrative Code receives notice of a proposed action by the chief executive officer or the director of medical affairs that will adversely affect reappointment as a member of the medical staff or the exercise of clinical privileges, the staff member shall be entitled to an adjudicatory hearing.
  - (2) A medical staff member shall not be entitled to a hearing under the following circumstances:
    - (a) Denial of the Wexner medical center board to grant a waiver of board certification for a medical staff member.
    - (b) Termination of a medical staff member because of exclusion from participation in any government reimbursement program.



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(c) Voluntary withdrawal of a medical staff application.

(d) Failure to submit a reappointment application.

(e) A leave of absences extending beyond current appointment or failure to request reinstatement of clinical privileges following a leave of absence.

(f) Actions or recommendations resulting from an informal peer review.

(g) Termination of courtesy B medical staff appointments upon approval by the Wexner medical center board.

(32) All hearings and appellate reviews shall be in accordance with the procedural safeguards set forth in this rule to assure that the affected medical staff member is accorded all rights to which the member is entitled.

(B) Request for hearing.

No Changes.

(D) Conduct of hearing.

No Changes.

- (E) Appeal process.
  - (1) (6) No Changes.
  - (7) Any final decision by the Wexner medical center board shall be communicated by the chief executive officer by certified return receipt mail to the affected medical staff member at the member's last known address as determined by university records. The chief executive officer shall also notify in writing the executive vice president for health sciences, the dean of the college of medicine, the chief medical officer of OSU medical center, the vice president for health services, the director of medical affairs, chief of staff, the section chiefdepartment chairperson and/or division director, clinical department chief and the academic department chairperson and the person(s) who initiated the request for formal peer review. The chief executive officer shall take immediate steps to implement the final decision.

(Board approval dates: 9/1/1993, 4/5/2002, 9/6/2002, 2/6/2004, 11/4/2005, 2/6/2009, 9/18/2009, 10/29/2010, 4/8/2011, 11/7/2014, 11/6/2015)

### 3335-111-07 Categories of the medical staff.

The medical staff of the CHRI shall be divided into honorary, physician scholar, attending, associate attending, clinical attending, community associate attending, consulting medical staff and limited designations. All medical staff members with admitting privileges may admit patients in accordance with state law and criteria for standards



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of care established by the medical staff. Medical staff members who do not wish to obtain any clinical privileges shall be exempt from the requirements of medical malpractice liability insurance, DEA registration, demonstration of recent active clinical practice during the last two years and specific annual education requirements as outlined in the list maintained in the chief medical officer's office, but are otherwise subject to the provisions of these bylaws.

#### (A) Honorary staff.

The honorary staff will be composed of those individuals who are recognized for outstanding reputation, notable scientific and professional contributions, and high professional stature in an oncology field of interest. The honorary staff designation is awarded by the Wexner medical center board on the recommendation of the chief executive officer of the CHRI, executive vice president for health sciences, section chiefdepartment chairperson and/or division director, or the credentials committee after approval by the medical staff administrative committee. This is a lifetime appointment. Honorary staff are not entitled to patient care privileges.

#### (B) Physician scholar medical staff.

- (1) Qualifications: The physician scholar medical staff shall be composed of those faculty members of the colleges of medicine and dentistry who are recognized for outstanding reputation, notable scientific and professional contributions, and high professional stature. This medical staff category includes but is not limited to emeritus faculty members. Nominations may be made to the chair of the credentialing committee who shall present the candidate to the medical staff administrative committee for approval.
- (2) Prerogatives: Members of the physician scholar medical staff shall have access to the CHRI and shall be given notice of all medical staff activities and meetings. Members of the physician scholar medical staff shall enjoy all rights of an attending medical staff member except physician scholar members shall not possess clinical privileges.
- (3) Physician scholar medical staff must have either a full license or an emeritus registration by the State Medical Board of Ohio.

#### (C) Attending medical staff.

#### (1) Qualifications:

The attending staff shall consist of those regular faculty members of the colleges of medicine and dentistry who are licensed or certified in the state of Ohio, whose practice is at least seventy-five percent oncology and with a proven career commitment to oncology as demonstrated by the majority of the following:

Training, current board certification (as specified in paragraph (A)(5) of rule 3335-111-04 of the Administrative Code), publications, grant funding, other funding and experience (as deemed appropriate by the chief executive officer and the section chiefdepartment chairperson and/or division director); and who satisfy the requirements and qualifications for membership set forth in rule 3335-111-04 of the Administrative Code.

(2) Prerogatives:

No Changes.



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(3) Responsibilities:

No Changes.

(D) Associate attending staff.

No Changes.

- (E) Clinical attending staff.
  - (1) Qualifications:

The clinical attending staff shall consist of those clinical faculty members of the colleges of medicine and dentistry who have training, expertise, and experience in oncology, as determined by the chief executive officer in consultation with the section-chief-department chairperson or division director and who satisfy the requirements and qualifications for membership set forth in rule 3335-111-04 of the Administrative Code.

- (2) Prerogatives:
- No Changes.
- (3) Responsibilities:
- No Changes.

(F) Community associate attending staff.

(1) Qualifications:

The community associate attending staff shall consist of those applicants who do not have faculty appointments in any of the academic units of the Ohio state university and who are licensed in the state of Ohio and who satisfy the requirements and qualifications for membership set forth in rule 3335-111-04 of the Administrative Code. All applications for appointment and reappointment to the community associate attending staff shall be made to the chief executive officer for initial evaluation. The chief executive officer shall consult with the clinical department chief and the chairperson of the appropriate academic department and when appropriate may refer each application for completion of the appointment procedure in accordance with pertinent requirements of paragraph (E) or (F) of rule 3335-111-04 of the Administrative Code. The approval of the clinical department chief and the academic department chairperson or section chief shall not be required.

(2) Prerogatives:

The community associate attending staff members may:

- (a) Provide consulting services to James patients.
- (b) Admit patients when the primary diagnosis is cancer or cancer-related.
- (c) Be free to exercise such clinical privileges as are granted pursuant to these bylaws.
- (d) Attend all meetings of the medical staff as non-voting members and attend any and all medical staff or hospital education programs. The community associate attending staff member may not hold elected office in the medical



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staff organization except to serve as a non-voting, ex-officio member of medical staff committees if appointed pursuant to these rules.

(3) Responsibilities:

The community associate attending staff members shall:

- (a) Meet the basic responsibilities set forth in rules 3335-111-02 and 3335-111-03 of the Administrative Code.
- (b) Retain responsibility within their care area of professional competence for the continuous care and supervision of each patient for whom the member is providing care, or arrange a suitable alternative for such care and supervision.
- (c) Actively participate in such quality evaluation and monitoring activities as required by the staff and discharge such staff functions as may be required from time to time.
- (d) Satisfy the requirements set forth in rule 3335-111-13 of the Administrative Code for attendance at staff meetings and meetings of those committees of which they are a member.
- (e) Supervise members of the limited staff in the provision of patient care in accordance with accreditation standards and policies and procedures of approved clinical training programs.
- (GF) Consulting medical staff.

No Other Changes.

(GH) Limited staff.

Limited staff are not considered members of the medical staff, do not have delineated clinical privileges, and do not have the right to vote in general medical staff elections. Except where expressly stated, limited staff are bound by the terms of these bylaws, rules and regulations of the medical staff and the limited staff agreement.

(1) Qualifications:

No Changes.

(2) Responsibilities:

The limited staff shall:

- (a) No Changes.
- (b) No Changes.
- (c) Participate in the care of all patients assigned to the limited staff member under the appropriate supervision of a designated member of the attending medical staff in accordance with accreditation standards and policies and procedures of the clinical training programs. The clinical activities of the limited staff shall be determined by the program director appropriate for the level of education and training. Limited staff shall be permitted to perform only those services that they are authorized to perform by the member of the attending medical staff based



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on the competence of the limited staff to perform such services. The limited staff may admit or discharge patients only when acting on behalf of the attending, associate attending <u>or</u> clinical attending <u>or community associate attending</u> medical staff. The limited staff member shall follow all rules and regulations of the service to which he or she is assigned, as well as the general rules of the CHRI pertaining to limited staff.

- (d) No Changes.
- (e) No Changes.
- (f) Appeal by a member of the limited staff of probation, lack of reappointment promotion, suspension or termination for failure to meet expectations for professional growth or failure to display appropriate humanistic qualities or failure to successfully complete any other competency as required by the accreditation standards of an approved training program will be conducted and limited in accordance with written guidelines established by the respective academic department or training program and approved by the program director of medical affairs and the Ohio state university's graduate medical education committee as delineated in the limited staff agreement and by the graduate medical education policies.

Alleged misconduct by a member of the limited staff, for reasons other than failure to meet expectations of professional growth as outlined above, shall be handled in accordance with rules 3335-111-05 and 3335-111-06 of the Administrative Code.

(3) Failure to meet reasonable expectations:

Failure to meet reasonable expectations may result in sanctions including but not limited to probation, lack of reappointment, suspension or termination. Termination of employment from the limited staff member's residency or fellowship training program limited staff member status shall result in automatic termination of the limited staff member's residency or fellowship appointment pursuant to these bylaws.

- (4) Temporary appointments:
  - (a) No Changes.
  - (b) No Changes.
- (5) Supervision:

Limited staff members shall be under the supervision of an attending, associate attending, or clinical attending or community associate attending-medical staff member. Limited staff members shall have no privileges as such but shall be able to care for patients under the supervision and responsibility of their attending, associate attending or, clinical attending or community associate attending medical staff member. The care they extend will be governed by these bylaws and the general rules and regulations of each clinical department. The practice of care shall be limited by the scope of privileges of their attending, associate attending, or clinical attending or community associate attending-medical staff member. Any



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concerns or problems that arise in the limited staff member's performance should be directed to the attending, associate attending, or —clinical attending or community associate attending—medical staff member or the director of the training program.

- (a) Limited staff members may write <u>admission, discharge and other</u> orders for the care of patients under the supervision of the attending, associate attending <u>or</u> clinical attending <del>or community associate attending medical staff member.</del>
- (b) All records of limited staff member cases must document involvement of the attending, associate attending, or clinical attending or community associate attending medical staff member in the supervision of the patient's care to include co-signature of the admission order history and physical, operative report, and discharge summary.
- (HI) Associates to the medical staff.

No Other Changes.

(14) Temporary medical staff appointment.

No Other Changes.

- (JK) Clinical privileges.
  - (1) Delineation of clinical privileges:
    - (a) No Changes.
    - (b) Each clinical department and CHRI section\_department and/or division\_shall develop specific clinical criteria and standards for the evaluation of privileges with emphasis on invasive or therapeutic procedures or treatment which represent significant risk to the patient or for which specific professional training or experience is required. Such criteria and standards are subject to the approval of the medical staff administrative committee and the Wexner medical center board.
    - (c) (i) No Changes.
  - (2) Temporary and special privileges:
    - (a) Temporary privileges may be extended to a doctor of medicine, osteopathic medicine, dental surgery, psychologist, podiatry or to a licensed allied health professional upon completion of an application prescribed by the medical staff administrative committee, upon recommendation of



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the chief of the clinical department, and approval by the director of medical affairs. The director of medical affairs, acting as a member and on behalf of the Wexner medical center board, has been delegated responsibility by the Wexner medical center board to grant approval of temporary privileges. The temporary privileges granted shall be consistent with the applicant's training and experience and with clinical department guidelines. Prior to granting temporary privileges, primary source verification of licensure and current competence shall be required. Temporary privileges shall be limited to situations which fulfill an important patient care need and shall not be granted for a period not to exceed one hundred twenty days.

and shall not be granted for a period not to exceed one number days.
(b) - (g) No Changes.
(3) Expedited privileges:
No Changes.
(4) Podiatric privileges:
No Changes.
(5) Psychology privileges:
No Changes.
(6) Dental privileges:
No Changes.
(7) Oral and maxillofacial surgical privileges:
No Changes.
(8) Licensed allied health professionals:
No Changes.
(9) Emergency privileges:
No Changes.



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(10) Disaster privileges:

No Changes.

(11) Telemedicine:

No Changes.

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#### 3335-111-08 Organization of the CHRI medical staff.

(A) The chief executive officer.

No Changes.

(B) The director of medical affairs (physician-in-chief/chief medical officer of the James cancer hospital).

#### (1) Method of appointment:

The director of medical affairs shall be appointed by the executive vice president for health sciences upon recommendation by the chief executive officer of the James Cancer Hospital. The director of medical affairs is the physician-in-chief and shall be the chief medical officer of the CHRI and must be a member of the attending medical staff of the CHRI.

#### (2) Responsibilities:

The director of medical affairs shall report to the chief executive officer, the executive vice president for health sciences, the CHRI hospital board, and the Wexner medical center board for the quality of patient care provided in the CHRI. The director of medical affairs shall assist the chief executive officer in the administration of medical affairs including quality assurance and credentialing. In addition, the director of medical affairs will decide determines the initial attending status medical staff category appointments, and reappointments and any changes in categories of the medical staff. Ongoing categorization of CHRI faculty.

(C) The chief medical officer of the Ohio state university medical center.

The chief medical officer of the Ohio state university medical center is the senior medical officer for the medical center with the responsibility and authority for all health and medical care delivered at the medical center. The chief medical officer is responsible for overall quality improvement and clinical leadership throughout the medical center, physician alignment, patient safety and medical staff development. The appointment, scope of authority,



UH and James Bylaws Committee: 10.09.17 James Bylaws Committee: 12.01.17

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and responsibilities of the chief medical officer shall be as outlined in the Ohio state medical center board bylaws. The director of medical affairs will work collaboratively with the chief medical officer and medical directors of each hospital of the medical center for the: coordination and supervision of patient care and clinical activities, responsibility for the clinical organization of his or her respective hospital, and to establish priorities, jointly with the chief executive officer or executive director of his or her respective hospital, for capital medical equipment, clinical space, and the establishment of new clinical programs, or the revision of existing clinical programs.

(D) The chief quality officer of the Ohio state university medical center.

The chief quality and patient safety officer of the Ohio state university medical center is referred to herein these bylaws as the chief quality officer. The chief quality officer reports to the chief medical officer—for administrative and operational issues and has an independent reporting relationship to the executive vice president for health sciences regarding quality data and patient safety events. The chief quality officer works collaboratively with clinical leadership of the medical center, including medical director of quality for the CHRI, director of medical affairs for the CHRI, nursing leadership and hospital administration. The chief quality officer provides leadership in the development and measurement of the medical center's approach to quality, patient safety and reduction of adverse events. The chief quality officer communicates and implements strategic, operational and programmatic plans and policies to promote a culture where patient safety is an important priority for medical and hospital staff.

(E) Medical director of credentialing.

No Changes.

(F) Associate physician-in-chief.

The associate to the physician in chief oversees the alignment of clinical service lines within the cancer program. The associate serves at the direction of the physician in chief to further the global cancer mission at OSU. The role functions as a key strategic liaison between the physician in chief, chief of staff and the medical staff to strategically grow the footprint of the cancer program. The associate physician in chief reports to the physician in chief of the James.

(GF) Medical director-of surgical services, James surgical services.

The chief of surgical services medical director, James surgical services has oversight of all James designated perioperative services and procedural suites. Working collaboratively with the administrator of perioperative services, the chief of surgical servicesmedical director, James surgical services facilitates the timely sharing of OR resources (including personnel and equipment) across the medical center in order to maximize the efficiency of OR services. The chief of surgical servicesmedical director, James surgical services works with clinical service lines and clinical leadership to coordinate OR services in a manner that enhances the quality of care and safety of services for patients. The chief of surgical servicesmedical director, James surgical services reports to the physician inchief Director of medical affairs of the James.



UH and James Bylaws Committee: 10.09.17 James Bylaws Committee: 12.01.17

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-(H) The sections. Professional assignments

Each member of the attending, associate attending, clinical, limited, physician scholar and honorary staff shall be assigned to a <a href="https://example.com/chief-staff-shall-by-the-chief-executive-officer-upon-the-recommendation-of-the-appropriate-academic department chairperson and the credentials committee.">https://example.com/chief-shall-by-the-chief-executive-officer-upon-the-recommendation-of-the-appropriate-academic department chairperson and the credentials committee.</a>

There are four clinical sections: medical oncology, surgical oncology\_radiation oncology and pathology. Appointment to a specific section\_department and/or division\_is based on the clinical specialty of the applicant for medical staff membership. Each-section\_department and/or division\_is headed by a section\_chief\_department chairperson or division director who has the responsibility to oversee all research and clinical activities conducted by members of the section\_department and/or division. Specifically, the section chief\_department chairperson or division director shall be responsible for the following: the development and implementation of policies and procedures that guide and support the provision of service; recommendations re: staffing needs and clinical privileges for all members appointed to the section\_department and/or division; the orientation and continuing surveillance of the professional performance of all section\_department and/or division\_members; recommendation for space and other resources needed.—The section chiefis appointed by the chief executive officer.

(I) Clinical department chief.

No Changes.

(Board approval dates: 9/1/1993, 3/3/1995, 12/6/1996, 12/3/1999, 4/5/2002, 9/6/2002, 2/6/2004, 11/4/2005, 7/7/2006, 2/6/2009, 9/18/2009, 5/14/2010, 2/11/2011, 4/8/2011, 8/31/2012, 2/01/2013, 6/6/2014, 11/6/2015)

3335-111-09 Elected officers of the medical staff of the CHRI.

(A) Chief of staff.

The chief of staff shall:

- (1) (3) No Changes.
- (4) Make medical staff committee appointments jointly with the <u>physician in chiefdirector of medical</u> <u>affairs</u> and chief of staff-elect for approval by the CHRI medical staff administrative committee.
- (5) (6) No Changes.



UH and James Bylaws Committee: 10.09.17 James Bylaws Committee: 12.01.17

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(B) Chief of staff-elect.

No Changes.

### (C) Delegates at-large.

Up to two additional at-large member(s) may be appointed to the <u>-medical staff administrative committee</u> at the recommendation of the chief executive officer of the CHRI, subject to the approval of the medical staff administrative committee and subject to review and renewal on a yearly basis every two years. There shall be two delegates at large that are members of the medical staff. Each delegate at large shall be a member of the medical staff administrative committee and shall serve on those committees of the medical center board as appointed by the chairperson of the medical center board.

- (D) Qualifications of officers.
  - (1) Officers must be members of the attending or associate attending staff at the time of their nomination and election and must remain members in good standing during their term of office. Failure to maintain such status shall immediately create a vacancy in the office involved.
  - (2) The chief executive officer and director of medical affairs, chiefs of the clinical departments, department chairperson or division directorsection chiefs, medical directors, associate and/or assistant medical directors are not eligible to serve as chief of staff or chief of staff-elect unless they are replaced in their CHRI administrative role during the period of their term of office.
- (E) Election of officers.
  - (1) (3) No Changes.
  - (4) The committee's nominees will be submitted by electronic or written ballot to all voting members of the medical staff no later than April May.
  - (5) Candidates for the office of chief of staff-elect will be listed and each attending or associate attending staff member may vote for one. Candidates for the at-large positions will be voted upon as a group. Each voting member of the medical staff may vote for two at-large candidates. The two candidates with the highest number of votes will be elected. A majority of the votes is not necessary.
  - (6) No Changes.
- (F) Term of office.



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No Changes.

- (G) Vacancies in office.
  - (1) (2) No Changes.
  - (3) Vacancies in the at-large representatives' positions will be filled by appointment by the chief of staff chief executive officer.

(Board approval dates: 9/1/1993, 3/3/1995, 12/6/1996, 9/1/1999, 4/5/2002, 9/6/2002, 2/6/2004, 11/4/2005, 2/6/2009, 9/18/2009, 2/11/2011, 4/8/2011, 6/6/2014, 9/2/2016)

3335-11-10 Administration of the medical staff of the CHRI

Medical staff committees.

- (A) (B) No Changes.
- (C) Medical staff administrative committee:
  - (1) Composition:

(a) Voting membership includes: chief of staff, chief of staff-elect, immediate past chief of staff, section chiefs clinical department chief chairperson or division director of medical oncology. radiation oncology, surgical encology, and anatomic pathology and molecular pathology;; division chiefs of department chairperson or division director of hematology, gynecologic oncology, otolaryngology/head and neck, hospital medicine, human genetics, infectious diseases. surgical oncology, thoracic surgery, neurological oncology, orthopaedic oncology/sarcoma, pulmonary, critical care and sleep medicine and urology; medical director of James emergency services; clinical department chiefs of anesthesia, physical medicine and rehabilitation, plastic surgery, psychiatry, and radiology; CHRI medical director of quality, CHRI medical director of credentialing, CHRI chief executive officer, CHRI director of medical affairs, director of the division of palliative medicine, chairperson of the cancer subcommittee, CCC director for clinical research, and CCC director for cancer control, and medical director of the James surgical services and associate director of James surgical services. Up to two additional at-large member(s) may be appointed to the MSAC at the recommendation of the chief executive officer of the CHRI, subject to the approval of the medical staff administrative committee and subject to review and renewal on a yearly basis. If a division or section head chairperson or director is a member by



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leadership position, he or she will also fulfill the role of division or section department chief director appointment. The director of medical affairs shall be the chairperson and the chief of staff shall be the vice-chairperson.

(b) Ex-officio non-voting membership includes: the CHRI executive director, the CHRI associate director for professional education, the CHRI chief nursing officer, CHRI executive director of patient services, the medical director of university hospital and/or the chief medical officer of the medical center, the dean of the Ohio state university college of medicine and, the executive vice president for health sciences, and the associate director for medical staff affairs.

(c) - (e) No Changes.

(2) - (4) No Changes.

(D) Credentialing committee of the hospitals of the Ohio state university:

(1) Composition:

The credentialing responsibilities of the medical staff are delegated to the credentialing committee of the hospitals of the Ohio state university, the composition of which shall include representation from the medical staff of each hospital.

The chief medical officer of the medical center shall appoint the credentialing committee of the hospitals of the Ohio state university. The <a href="mailto:chief-of-staff-chiector">chief-of-staff-chie

The credentialing committee of the hospitals of the Ohio state university shall meet at the call of its chair, whom shall be appointed by the chief medical officer of the medical center.

(2) Duties:

(a) - (d) No Changes.

(e) To make recommendations to the medical staff administrative committee through the medical director of credentialing regarding appointment applications and initial requests for clinical privileges. Such recommendations shall include the name, status, department (division and/or departmentdivision/section), medical school and year of graduation, residency and fellowships, medical-related employment since graduation, board certification and recertification, licensure status as well as all other relevant information concerning the applicant's current competence, experience, qualifications, and ability to perform the clinical privileges requested;



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(f) - (I) No Changes.

(3) Licensed health care professionals subcommittee:

No Changes.

- (E) Medical staff bylaws committee:
  - (1) Composition.
- (F) Committee for practitioner health.

No Changes.

- (G) Cancer subcommittee:
  - (1) Composition:

Required to be included as members of the cancer subcommittee are physician representatives from surgery, medical oncology, diagnostic-radiology, radiation oncology, anesthesia, plastic surgery, urology, otolaryngology/head and neck, hematology, gynecologic oncology, thoracic surgery, orthopaedic oncology, neurological oncology, emergency medicine, palliative medicine and pathology, the cancer liaison physician and nonphysician representatives from the cancer registry, administration, nursing, social services, and quality assurance. Other disciplines should be included as appropriate for the institution. The chairperson is appointed at the recommendation of the chief executive officer of the CHRI and the director of medical affairs, subject to the approval of the medical staff administrative committee and subject to review and renewal on a yearly basis.

(2) - (3) No Changes.

(H) Ethics committee.

No Changes.

(I) Practitioner evaluation committee.

No Changes.



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(J) Professionalism consultation committee.

No Changes.

3335-111-11 History and physical.

No changes.

3335-111-12 Amendments and Adoption

No changes.

#### 3335-111-13 Meetings and dues.

(A) Meetings.

The medical staff of the CHRI shall conduct scheduled meetings semi-annually. Notice of the meetings will be sent to all medical staff at least two weeks prior to the meeting. Attendance is encouraged, but shall not be a requirement for continued medical staff membership and clinical privileges. A-sSpecial or electronic meetings may be called at the option of the medical staff administrative committee.

(B) No Changes.

3335-11-14 Rules of construction.

No Changes.



Quality and Professional Affairs: 3.28.18 MC Board: 4.4.18 UBOT: 4.6.18

Medical Staff Rules and Regulations – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute

Updated September 2, 2016

01	Ethical pledge.  No Change
02	Admission procedures.  No Change
03	Attending assignment.  No Change
04	Consultations.  No Change
05	Order writing privileges.  No Change
06	Death procedures.  No Change
07	Emergency preparedness.  No Change
80	Surgical case review (tissue committees).  No Change
09	Tissue disposition.  No Change
{00	269460-1}



Quality and Professional Affairs: 3.28.18 MC Board: 4.4.18 UBOT: 4.6.18

Medical Staff Rules and Regulations –
Arthur G. James Cancer Hospital and Richard J. Solove Research Institute
10 Medical records.

(A) (1)-(5) No Change

(6) Records storage, security, and accessibility.

All patient's records, pathological examinations, slides, radiological films, photographic records, cardiographic records, laboratory reports, statistical evaluations, etc., are the property of the CHRI and shall not be taken from the CHRI except on court order, subpoena or statute duly filed with the medical record administrator or the hospital administration. The hospital administration may, under certain conditions, arrange for copies or reproductions of the above records to be made. Such copies may be removed from the hospital after the medical record administrator or the proper administrative authority has received a written receipt thereof. In the case of readmission of the patient, all previous records or copies thereof shall be available for the use of the attending medical staff member.

In general, medical records shall be maintained by the hospital. Records on microfilms, paper, electronic tape recordings, magnetic media, optical disks, and such other acceptable storage techniques shall be used to maintain patient records for twenty-one years for minors and ten years for adults. In the case of readmission of the patient, all records or copies thereof from the past ten/twenty-one years shall be available for the use of the attending medical staff member or other health care providers.

11 Committees.
No Change
12 Standards of practice.
No Change
13 Mechanism for changing rules and regulations.

(7) - (11) No Change

{00269460-1}

No Change



Quality and Professional Affairs: 3.28.18 MC Board: 4.4.18

UBOT: 4.6.18

Medical Staff Rules and Regulations –
Arthur G. James Cancer Hospital and Richard J. Solove Research Institute
14 Adoption of the rules and regulations.

No Change

15 Sanctions.

No Change

{00269460-1}

(APPENDIX XLIX)

### APPROVAL FOR FISCAL YEAR 2018 UTILITY SYSTEM CAPITAL IMPROVEMENT PROJECTS

#### **BACKGROUND**

Pursuant to the terms of the long-term lease and concession agreement for The Ohio State University utility system dated April 10, 2017, and as amended, Ohio State Energy Partners LLC (OSEP) will fund and implement capital improvements to the utility system. Capital investments made by OSEP will be tied to the variable fee component of the annual utility fee structure.

The university and OSEP evaluate proposed capital projects for alignment with applicable strategic, financial and physical plans, and to ensure continued reliability, safety and compliance of the utility system.

These projects require approval of the Board of Trustees. Approval of these projects will be pursuant to the details outlined below, any applicable university directives, as well as the applicable project requests and supporting documentation submitted pursuant to the concession agreement.

### South Neil Steam Capacity Upgrade - Design Only

Scope: This project will upgrade 360 feet of steam piping in the South Neil tunnel to support

the Postle Hall Expansion, renovate tunnel walls to accommodate new pipe anchors and abatement, and remove 800 feet of abandoned heating hot water pipe. The upgrade will enable steam supply to new buildings and renovations contemplated in the Health Sciences District. Without this project, the new heating demands will exceed capacities in the existing steam pipelines that would negatively impact Postle,

Hamilton, Starling-Loving and the South Residence Halls.

Estimated Cost: \$0.087M - Design Only

Project Cost Breakdown	Cost
FY 2018	\$ 0.087 M

### Postle Hall Expansion Utilities

Scope: Combines the scope of the previously approved OSEP chilled water extension

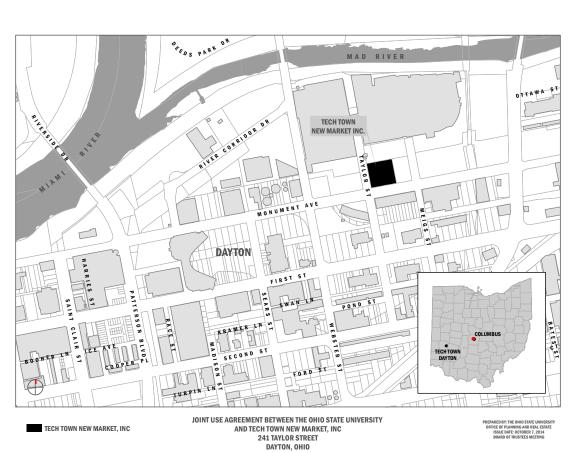
project (August 2017) with electricity, natural gas and steam utilities work to support the Postle Hall project. OSEP will deliver this project in conjunction with OSEP's

direct contract with the Postle Hall project construction manager.

Estimated Cost: \$3.287 M

Project Cost Breakdown	Cost
FY 2018	\$ 0.050 M
FY 2019	\$ 1.625 M
FY 2020	\$ 1.612 M

### (APPENDIX L)



(APPENDIX LI)

The Ohio State University Board of Trustees

#### BACKGROUND

TOPIC: Men's Basketball Ticket Prices

#### CONTEXT:

The Ohio State University Department of Athletics continues to be one of only 18 self-sustaining athletic programs across the nation. Currently, the Department of Athletics funds more than 1,100 student-athletes in successful endeavors of academic achievement and athletics competitions, with a graduation success rate of 89 percent. Yearly, the Department of Athletics contributes more than \$30 million back to the institution's academic mission. Funds generated from ticket sales are used to sustain the scholarships for more than 625 student-athletes.

The Department of Athletics first began using variable ticket pricing for men's basketball games in 2013, by designating 'premier' games to better align pricing to market value for high-profile/high-demand games. Beginning with the 2017-18 basketball season, the department adopted an expanded variable pricing model for all individual game tickets, comprised of three opponent categories and four price zones. It also established a 12 percent discount for public season ticket purchasers, and maintained the 20 percent discount for faculty and staff season ticket purchasers. This pricing model provides a fluid pricing structure to align to market demands, offers significantly more choice for ticket purchasers, and contributed to successfully increasing both sales and attendance for the 2017-18 season. The Athletic Council and university administrators recommend continuation of these pricing guidelines.

#### RECOMMENDATION:

For Men's Basketball Tickets:

- Price the individual games according to non-conference, conference, or premier opponent categorization, with a maximum of five games categorized as premier.
- Maintain the configuration of scaling the seating into four price zones.
- Assign the individual game and season ticket pricing for the 2018-19 men's basketball season as indicated in the attached table.

#### CONSIDERATIONS:

For Men's Basketball Tickets:

- Variable ticket pricing is widely in use by other Big Ten institutions and various athletic
  programs across the country, provides better access and affordability for fans, and has been
  successful at Ohio State since first introduced for the 2013-14 season.
- The current season ticket discounts approximately 12 percent off the aggregate total price of the
  individual game tickets for the public and 20 percent off the aggregate total price for faculty and
  staff will remain.
- All prices remain unchanged from the 2017-18 season, with the exception of the student ticket price, which will be slightly reduced and normalized across all opponent categories, offering a very affordable option below a \$10 threshold, and not subject to premier game pricing.

### April 6, 2018, Board of Trustees meeting

#### The Ohio State University Board of Trustees

- Premier games for previous seasons have been designated as follows:
  - o 2014-15 season: Marquette, Michigan and Wisconsin
  - o 2015-16 season: Virginia, Maryland and Michigan State
  - o 2016-17 season: Connecticut, Michigan State, Wisconsin and Indiana
  - o 2017-18 season: Michigan, Michigan State, Maryland and Indiana
- The schedule for the 2018-19 season has not yet been determined.

Opponent	PSL &	Public	Public	Public	Public	Fac/Staff	Fac/Staff	Fac/Staff	
Category	Club Level	Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Student
Exhibition	\$ 10	\$ 10	\$ 10	\$ 10	\$ 5				\$9
Non-Conference	\$ 29	\$ 24	\$ 13	\$ 11	\$ 7				\$9
Conference	\$ 46	\$ 41	\$ 28	\$ 19	\$ 10				\$9
Premier	\$ 57	\$ 52	\$ 32	\$ 23	\$ 14				\$9
Season Ticket	\$ 684	\$ 604	\$ 374	\$ 276		\$ 546	\$ 341	\$ 253	

### REQUESTED OF FINANCE COMMITTEE:

Approval

(APPENDIX LII)

The Ohio State University Board of Trustees

#### **BACKGROUND**

### Authorization of a Master Equipment Lease with Apple, Inc.

In October 2017, Ohio State announced the Digital Flagship University, a comprehensive, university-wide digital learning initiative in collaboration with Apple. In line with the strategic plan, Digital Flagship will support educational innovation for students and economic development opportunities for the community. There are three main components:

- A student-success initiative to integrate learning technology throughout the university
  experience, including the distribution of an iPad Pro learning technology suite to new first-year
  students at the Columbus and regional campuses, starting in fall 2018.
- An iOS design laboratory on the Columbus campus serving faculty, staff, students and members of the broader community
- University-wide opportunities to learn coding skills to enhance students' career readiness in the app economy

The learning technology suite to be provided to new first-year students entering in 2018-19 will include the following bundle as well as apps that support learning and campus life:

- 10.5-inch iPad Pro Wi-Fi 256GB
- Apple Pencil for iPad Pro
- Smart Keyboard
- STM Dux Shell Case
- 3-Year AppleCare+ for iPad

Ohio State will obtain the learning technology bundle listed above through a Master Lease Agreement with Apple, Inc. This lease will cost approximately \$2.8 million a year for a four-year total of \$11.1 million. The university will own and service the devices during students' undergraduate careers at Ohio State.

The Digital Flagship initiative will be distributing devices to all Columbus campus students during orientation, with opportunities to leverage this technology throughout the two-day experience. The university is working with regional campuses to determine the optimal deployment structure based on their needs.

The university has made significant progress on other elements of the Digital Flagship initiative, including:

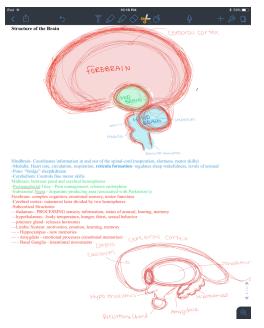
- Educators Cohort: 182 faculty members applied for about 85 spots in the first cohort of Digital Flagship Educators, which will provide training on how to enrich courses with technology.
   Additional training will be offered for faculty members who are not part of the cohort.
- Enterprise App Development: An Ohio State team, including students, recently visited
  Cupertino to develop the outline of an app aimed at easing the transition to college and promoting
  student engagement. The app will be built by Ohio State developers and will be available by
  orientation.
- Pilot Courses: This spring, five additional instructors deployed iPads in their course sections.
   Students and instructors involved in this program are providing meaningful feedback as the university prepares for the larger iPad deployment.
- iOS design lab: A temporary location for fall 2018 is being finalized, with plans to locate the longterm lab in the 15th and High development.
- Coding training: Throughout spring semester, 14 workshops on iPad integration and swift
  coding in the classroom are being hosted at Columbus and all regional campuses.



Digital Flagship has never been a device initiative. From the start, Digital Flagship has been committed to the core ideas of providing access to innovative teaching and learning resources and preparing students for the modern, mobile, technology-driven workforce.

In pilot courses this Spring, the outcomes have been incredibly exciting and inspiring. Students had increased enthusiasm, creativity and ability to share their thoughts with instructors. Instructors felt new potential and creativity in the classroom and reinvested in their work.

For example, on the midterm in a pilot course, the most missed questions were about parts of the brain, but the student who took these notes got them all right. The student credits the ability to study and learn with different colors because they help her to be organized and find specific elements when studying.



The toolset of iPad Pro, keyboard, and pencil were thoughtfully selected to help students and instructors fully realize what is possible with technology-enhanced learning opportunities.

Teaching often comes with a distinct need to demonstrate how the student will utilize knowledge after college. One of the major benefits to active learning with digital tools is skill development and preparedness for workforce entry after college. We want to ensure that their four years of education at Ohio State fully equip them for future endeavors in applying to positions or graduate school, complete with easily distributed examples of their work and abilities. The 6th Generation iPad will not allow us to achieve this whereas the iPad Pro will.

### RECOMMENDATION

After a comprehensive comparision of the iPad Pro (*which was the pilot device*) and the 6th Generation iPad, we know that changing to the 6th Generation will dramatically reduce what is possible with this initiative. Core functionalities like being able to read a text and take notes simultaneously will not be available and there will be increased complexity in both deployment and maintenance of the devices. More importantly, the capacity for students and instructors to advance new ideas and innovations is dramatically impaired with the 6th Generation iPad vs the iPad Pro.

	SPECS	6TH GEN IPAD	IPAD PRO
	Display	<ul><li>9.7"</li><li>Reduced screen size and visibility in sunlight</li></ul>	Improved student experience in all environments, both in and outside the classroom
	Processor & RAM	<ul> <li>2GB RAM, A10</li> <li>Lacks ability to edit large files, reduced capabilities in the long term</li> <li>Reduced multitasking functionality</li> </ul>	4GB RAM, A10X  • Enables students to complete high-quality video projects and learn twenty-first century skills  • Ensures iPad continues the be a highly functioning resource over the 4-year college experience
<b>o</b>	Camera	No Flash     No Image Stabilization	<ul> <li>Enables students to record high-quality video</li> <li>Optical Image Stabilization</li> </ul>
	Pencil	Supports pencil but is less responsive than Pro	ProMotion support greatly improves pencil responsiveness for a superior student experience
	Keyboard	Bluetooth Only     Third-party Bluetooth keyboard poses risks for deployment and support at scale	Apple Smart Keyboard  • Smart Keyboard provides optimal student experience for notetaking
	Storage Capacity	Pilot students have shown that the 32 GB version of the 6th gen iPad will not be sufficient     128 GB storage may also be insufficent over four years	<ul> <li>256 GB</li> <li>Enables download of digital textbooks and other resources over the lifetime of a student.</li> </ul>





(APPENDIX LIII)

The Ohio State University Board of Trustees

#### **BACKGROUND**

**TOPICS:** Revision of the university's Patents and Copyrights policy, to be renamed the Intellectual Property policy.

**CONTEXT:** The university's Patents and Copyrights policy was issued in 1985, and most recently revised in 1989. Both the issuance and the revision were approved by the Board of Trustees. The board also previously adopted rule 3335-13-06, which empowers the University Senate's intellectual properties, patents and copyrights committee (IPPC) to propose changes to the existing policy. That committee — which includes members from multiple colleges, the Council of Graduate Students, the Technology Commercialization Office and the Office of Research — has been working for several years to revise the policy. The proposed revised policy has now been approved by, among others, the IPPC, the university's Faculty Council, Senior Management Council, president's cabinet and University Senate. The Board of Trustees' approval is the final step in the policy approval process.

**SUMMARY:** For several years, the IPPC has been reviewing the existing Patents and Copyrights policy along with related policies of benchmark institutions. The IPPC and other university stakeholders have come to the conclusion that the policy should be revised to better reflect the current intellectual property landscape, encourage the creation and dissemination of knowledge and promote the commercialization of intellectual property. Specifically, the proposed revised policy clarifies the rights of faculty members with respect to their scholarship, instructional works and artistic works; addresses the rights of software creators; updates the process for the commercialization of inventions, discoveries and patents; addresses the rights of staff members with respect to their intellectual creation; adjusts the royalties-sharing mechanism; establishes a dispute resolution mechanism; aligns the policy with the university's standard policy template; and renames it the Intellectual Property policy to better capture the breadth of the policy.

REQUESTED OF THE ACADEMIC AFFAIRS AND STUDENT LIFE COMMITTEE: Approval of the resolution.



# **University Policy**

Applies to: Faculty, staff, and students

### **Responsible Office**

### Office of Business and Finance

#### **POLICY**

Issued: 05/03/1985

Revised: 04/15/2018 (target date)

The university encourages **faculty**, staff, and students to engage in the creation and dissemination of knowledge, including works of authorship, discoveries, inventions, patents, and tangible property that can serve the public through open academic exchange and commercial development. The university is committed to creating a culture and infrastructure that nurtures these activities and highlights the capacity of its **faculty**, staff, and students to advance the well-being of the people of Ohio and the global community through the creation and dissemination of knowledge. The university recognizes the importance of intellectual freedom and autonomy of **faculty**, staff, and students.

#### Purpose of the Policy

To establish rules regarding the ownership, distribution, and commercialization of **intellectual property** created by university **faculty**, staff, and students.

#### **Definitions**

Term	Definition	
Artistic works	Works created primarily for their cultural or aesthetic value. Such works may include, but are not limited to,	
	plays, poems, novels, paintings, illustrations, sculptures, and musical compositions.	
Copyrighted	Works protected by copyright that are authored by the university or its faculty, staff, and students, provided	
materials	that copyrighted materials will not include inventions for the purpose of this policy.	
Creator	A creator is a faculty member, staff member, or student who meets one or more of the following criteria:  (a) With respect to copyrighted materials, creator means the author, as that term is defined under U.S. copyright law, provided that if the author is the university due to its position as the employer of the individual creator, then, for the purpose of this policy, the creator will be the individual who would have been considered the author if that individual was not performing the work within the scope of employment.  (b) With respect to inventions that are eligible for patent protection, as well as know-how and any other inventions related to such inventions that are eligible for patent protection, creator means any inventor, as the term is construed under U.S. patent law.  (c) With respect to tangible research property, creator means any individual who has taken part: (a) in the conception of the idea of the specific tangible research property that is to be made; and/or (b) substantially in making the tangible research property but only when making the tangible research property was not a routine or known practice. An individual will not be considered a creator of a new tangible research property solely because that individual provided materials to be used to produce the new tangible research property.  (d) With respect to any other intellectual property that does not fall within the above criteria, creator means any individual who provided substantive and substantial intellectual contribution to the creation of the intellectual property.	
Direct expenses	Costs, expenses, taxes, and losses paid or incurred by the university or on its behalf that are directly: (i) attributable to <b>intellectual property</b> being transferred, commercialized, or exploited; (ii) related to the commercialization, preservation, marketing, licensing, and legal protection of specific <b>intellectual property</b> ;	
	or (iii) associated with acquiring, managing, transferring, or liquidating equity to be used for the transference, commercialization, or exploitation of specific <b>intellectual property</b> .	
Faculty	Has the meaning set forth in Faculty Rules 3335-5-19. Without limiting the foregoing, it includes those	
	appointed by the board of trustees with tenure track, non-tenure-track (including clinical faculty, research	
	faculty, and associated faculty), and emeritus faculty titles.	
Gross proceeds	All cash received from the transfer, commercialization, or other exploitation of intellectual property	
	including, but not limited to, royalties, option fees, license fees, reimbursement of expenses, and/or cash	
	from dividends or distributions on, or the sale or liquidation of, equity. In the case of sponsored research,	
	the cash or other consideration received by the university from the sponsor of such research to do the	

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### **University Policy**

Applies to: Faculty, staff, and students

	research, except for royalties for intellectual property, are not part of the gross proceeds. TAF proceeds	
	are not part of the <b>gross proceeds</b> . Unless an agreement pursuant to section VI under Policy Details provides otherwise, the proceeds received from the commercialization of the <b>intellectual property</b> created	
	in sponsored research, except for any TAF proceeds, are part of the gross proceeds.	
Instructional works	Works created primarily for the instruction of students or for continuing education and certification programs. Such works may include, but are not limited to, slides and presentation content to be used in classes, class notes, exercises and assignments, syllabi, and examinations.	
Intellectual property	All inventions and copyrighted materials.	
Inventions	All rights to and interests in discoveries, inventions, and patents covered by Ohio Revised Code §3345.14(B), as well as tangible research property.	
Net proceeds	Gross proceeds less direct expenses.	
OSIF	Ohio State Innovation Foundation. A 501(c)(3) organization, formed in 2013 by the university to manage intellectual property developed at or created by the university and to facilitate the commercialization of such intellectual property. The university may assign to OSIF university IP to be commercialized by OSIF In return, OSIF will transfer, according to this policy, the net proceeds generated from the university IP so assigned to the Technology Commercialization Office (TCO), to distribute according to this policy. OSIF includes any successive entity to Ohio State Innovation Foundation.	
Ohio State proceeds	The amount of <b>net proceeds</b> received by the university directly or as a distribution from <b>OSIF</b> .	
Scholarly works	Works created primarily to express and preserve scholarship as evidence of academic advancement or academic accomplishment. Such works may include, but are not limited to, scholarly publications, journal articles, research bulletins, monographs, and books (including textbooks and electronic books).	
Software	The source code and/or object code of computer applications and subroutine libraries. Software, for the purposes of this policy, does not include other works in the form of computer software including computer-generated works of art or music or the content of other forms of works, such as traditional scholarship, that is recorded in a software medium.	
Sponsored research	Research projects that are supported by funding or other consideration (received by the university) provided in response to a request or proposal to a government or industrial sponsor or supported by specific deliverables in a grant from a funding entity, including research or other activity undertaken by the university or one of its units that is subject to specific written obligations to another party.	
TAF proceeds	Any non-refundable, fixed upfront or fixed delayed fees (including related option fees), such as technology access fees, paid by a sponsor of <b>sponsored research</b> in addition to the research project funding that entitles the sponsor to rights in <b>intellectual property</b> arising under the university's performance of such <b>sponsored research</b> project.	
TAF Researcher	Any university <b>faculty</b> , staff, or student involved in the performance of a research project for which <b>TAF proceeds</b> are received.	
Tangible research property	Research results that are in a tangible form as distinct from intangible property. Examples of tangible property include, but are not limited to: cell lines; data; human, animal, and plant tissue; transgenic animals; antibodies; biological organisms; and integrated circuits. Tangible mediums of expression in which copyrighted materials are fixed, including, but not limited to, books, copies of articles, and music sheets are not tangible research property.	
University IP	All <b>intellectual property</b> owned by the university as set forth in this policy.	

#### **Policy Details**

- I. This policy is subject to all applicable laws including federal and Ohio law, and in particular Ohio Revised Code §3345.14. **Faculty**, staff, and students are bound by this policy by accepting or continuing university employment or by using university resources or facilities and promise to irrevocably assign, and hereby irrevocably assign, all rights, title, and interests in **university IP** to the university.
- II. With the exception of specific written agreements to the contrary (see section VI), and without limiting the general disclosure obligations (see section VII.C), nothing in this policy will be interpreted to prevent any faculty, staff, or students from sharing the results of their research and other academic activities with others, including by publishing those results. Faculty, staff, and students should however be aware that under certain circumstances disclosure can jeopardize the ability to secure a patent for an invention and they are therefore advised to consult with the Technology Commercialization Office (TCO) prior to such public disclosure.
- III. Ownership of inventions. Subject to the terms of section VI:
  - A. All rights, title, and interests in **inventions** are the sole property of the university. The university hereby assigns to the **creator(s)** every **invention**:



# **University Policy**

Applies to: Faculty, staff, and students

- developed by faculty or staff acting outside of the scope of their employment provided that such intellectual property was developed with no more than insignificant use of university resources, or
- 2. developed by a student, provided that the invention was not developed:
  - a. within the scope of employment of a student who is an employee;
  - b. as part of a sponsored research project; or
  - c. as part of a course or a university degree program for which the relevant syllabus, made reasonably available to the students before the **invention** was developed, provided that the student will not own such an **invention**.
- B. Every student hereby grants the university the following licenses:
  - a nonexclusive, perpetual, worldwide, royalty-free license to use any inventions created as part of a
    course or a university degree program for administrative purposes, such as assessment of a work,
    accreditation, and to prevent and/or remediate research or academic misconduct; and
  - a nonexclusive, perpetual, worldwide, royalty-free license to any use of any inventions that the student
    owns that were developed by the student with more than insignificant use of university resources not as
    part of a course or a university degree program. The TCO, in consultation with the relevant principal
    investigator, may waive or limit that license if it concludes that the invention is not likely to harm future
    research at the university.
- C. As used in this section III, insignificant use of university resources includes, but is not limited to, de minimis use of: university networks and email systems; office spaces; libraries and their resources; desktops, laptops, cell phones, tablets, and **software** that is commonly installed thereon; servers; and cloud storage services. Insignificant use of university resources does not include the use of:
  - 1. other university employees or students in developing, testing, or distributing the inventions; or
  - university laboratories or equipment besides the equipment referenced above in this subsection III.C or similar commonly used items.
- IV. Ownership of **copyrighted materials**. Subject to the terms of section VI:
  - A. All copyrights in instructional works, scholarly works, and artistic works whose creators are faculty members, except for software, remain with their creators. The university hereby assigns any of its copyrights in such works, insofar as they exist, to their creators. Such works will not be deemed university IP under this policy. The copyright in all other copyrighted materials whose creators are faculty members that are created within the scope of the creators' employment belong to the university.
  - B. The university hereby grants to every faculty member who is a creator of software that is not eligible for patent protection a perpetual, exclusive, worldwide, sublicensable, royalty-free license to use the software for any scholarly, instructional, and artistic purpose, as well as grants a perpetual, nonexclusive, worldwide, royalty-free license to allow others, for no consideration, to use the software, subject to terms and conditions determined by the creator. Without limiting the foregoing, the university may require faculty members to agree to limits on their rights under those licenses as a condition for commercialization of the software.
  - C. Each **creator** who is a **faculty** member grants the university the following licenses with respect to the **instructional works** created during employment at the university:
    - If the instructional works were created with the intention to be used for teaching by others at the
      university, then the creators hereby grant the university a perpetual, nonexclusive, worldwide, royaltyfree license to use the instructional works for any of the university's teaching and educational purposes
      as well as for administrative purposes such as accreditation.
    - 2. If the instructional works were not created with the intention to be used for teaching by others at the university, then the creators hereby grant the university a nonexclusive, worldwide, royalty-free license to use every such instructional work that was used for the instruction of the university's students. Such a license is limited to use for teaching in the same course or in a similar course to that for which they were developed as well as for administrative purposes such as accreditation. The license with respect to each such instructional work expires at the earliest of (i) that work reasonably and in good faith becoming available on the market or (ii) one year after the creator ceases to teach the course for which those instructional works were developed for the university.
  - D. Copyright of works whose **creators** are staff will be owned as followed:



### **University Policy**

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- Subject to the exceptions set forth below, copyrighted materials created by staff within the scope of their employment is owned by the university.
- 2. The university acknowledges that a limited number of staff members have certain prerogatives to set their own research, scholarly, instructional, artistic, or creative tasks and in certain circumstances personal ownership of copyright arising from these professional endeavors would be appropriate. The TCO will establish reasonable procedures, which will be reviewed and approved by the Intellectual Property, Patents, and Copyrights Committee (IPPC), to allow unit heads and deans to submit an application to the TCO to request that the university assign copyright of specific works or classes of works to their staff-creator. TCO, in consultation with the relevant unit head or dean, may grant, deny, or modify such requests. TCO will report to IPPC from time to time, but at least once a year, about the type of requests that have been approved and have been denied under these procedures.
- Notwithstanding the foregoing, post-doctoral research employees will have the same rights and obligations in copyrighted materials they create in their capacity as post-doctoral research employees that faculty have.
- 4. Notwithstanding the foregoing, students who are the instructors of record for a course and author instructional works developed for that course own those instructional works whether student-employees or not. Those students grant the university the same license that the university would have received under section IV.C above if the works were developed by a faculty member.
- E. Students retain copyrights in **copyrighted materials** that they author except that the university owns those materials when they are authored by student-employees within the scope of their employment. The university hereby assigns any of its copyrights in such works (excluding works created by a student-employee within the scope of employment), insofar as it exists, to their **creators**. Such works will not be deemed **university IP** under this policy. Every student hereby grants the university a perpetual, worldwide, nonexclusive, royalty-free license to use such **copyrighted materials** in any way for administrative purposes, such as assessment of the work, accreditation purpose, and to prevent and/or remediate research or academic misconduct. In addition, the university may require students to provide a single copy of their thesis or dissertation to the university for non-commercial library use.
- F. Rights in co-authored **copyrighted materials** will be determined in the following way. First, the co-authors will be identified, pursuant to applicable law. Then, the ownership rights of each co-author will be determined separately pursuant to Sections IV.A-IV.E, as if that co-author created the entire work. The owners identified in this process will be the joint owners of the work.

#### V. Proceeds Distribution

- A. For university IP transferred to OSIF for which OSIF receives gross proceeds, net proceeds will be distributed as follows:
  - 1. For net proceeds up to \$100,000, OSIF will distribute 50% of the net proceeds to TCO as Ohio State proceeds for distribution to creators pursuant to subsection V.B.1. OSIF will distribute a share of the remaining 50% of the net proceeds to units that have borne, in all or in part, the direct expenses in connection to the commercialization of university IP for which OSIF received the gross proceeds (if any), in proportion to the expenses borne by those units, and will retain the rest to cover its unreimbursed expenses.
  - 2. When net proceeds exceed \$100,000, the first \$100,000 will be distributed in accordance with subsection V.A.1, and any portion of the net proceeds beyond the first \$100,000 will be distributed as follows: 15% of these net proceeds will be retained by OSIF and 85% of these net proceeds will be distributed to TCO on behalf of the university as Ohio State proceeds pursuant to subsection V.B.2.
- B. Ohio State proceeds received as a distribution from OSIF will be distributed as follows:
  - 1. For Ohio State proceeds up to \$50,000, the creator(s) will receive 100% of these Ohio State proceeds.
  - 2. When Ohio State proceeds received as a distribution from OSIF exceed \$50,000, the first \$50,000 will be distributed in accordance with subsection V.B.1. and any portion of the Ohio State proceeds beyond the initial \$50,000 will be distributed as follows:
    - a. 40% to the **creator(s)**;
    - b. 20% to TCO on behalf of the university; and



### **University Policy**

Applies to: Faculty, staff, and students

- 40% to the creator(s)' colleges, departments, and centers, according to instructions and guidelines
  established by the provost.
- C. Ohio State proceeds received by the university directly will be distributed as follows:
  - For Ohio State proceeds up to \$100,000, the creator(s) will receive 50% of these Ohio State proceeds.
     TCO will distribute a share of the remaining 50% of the Ohio State proceeds to units that have borne, in all or in part, the direct expenses in connection to the commercialization of university IP for which the Ohio State proceeds were received (if any), in proportion to the expenses borne by those units, and will retain the rest on behalf of the university.
  - 2. Any portion of these **Ohio State proceeds** beyond the initial \$100,000 will be distributed as follows:
    - a. 34% to the **creator(s)**;
    - b. 33% to TCO on behalf of the university; and
    - c. 33% to the **creators**' colleges, departments, and centers, according to instructions and guidelines established by the provost.
- D. TAF proceeds will be distributed as follows:
  - For TAF proceeds up to \$100,000, the TAF researchers will receive, in accordance with subsections V.D.3 and V.D.4, 50% of the TAF proceeds, and TCO on behalf of the university will receive 50% of the TAF proceeds.
  - 2. Any portion of the **TAF proceeds** beyond the initial \$100,000 will be distributed as follows:
    - a. 34% to the TAF researchers, in accordance with subsections V.D.3 and V.D.4;
    - b. 33% to TCO on behalf of the university; and
    - c. 33% to the TAF researchers' colleges, departments, and centers, according to instructions and guidelines established by the provost.
  - 3. The principal investigator(s) of the research project for which TAF proceeds are to be received or that were received will propose to the Office of Research a distribution plan for the TAF researchers' share of these proceeds. Such a distribution plan should be created at the commencement of the research project and communicated to the TAF researchers who are identified by it. The distribution plan may include details such as what portion of the TAF researchers' share each TAF researcher will be granted, if any; when distributions to the TAF researchers will be made; and whether the portions may or may not be adjusted according to actual contribution of the TAF researchers. The distribution plan must be approved by the Office of Research, which may develop, in consultation with the IPPC and TCO, guidelines for the review and approval of such distribution plans.
  - 4. The TAF researchers' share will be distributed only after a distribution plan, pursuant to subsection V.D.3, is approved by the Office of Research and according to the approved plan. If no such distribution plan is approved before the completion of the research project, the TAF researchers' share will be distributed according to the Office of Research guidelines among TAF researchers who provided substantive and substantial intellectual contribution to the research project as determined by the Office of Research, in consultation with TCO, unless all those TAF researchers agree in writing to a different distribution.
- E. When university IP has more than one creator, the creators will equally share the creators' share under subsections V.B and V.C, as applicable, unless all the creators agree in writing to a different distribution of the creators' share. Further, a subset of the creators can agree in writing among themselves to have a different distribution of their own share.
- F. When multiple **intellectual property** assets are licensed or otherwise commercialized under a single agreement, TCO, after consulting with the **creator(s)**, will reasonably determine and designate the share of **Ohio State proceeds** to each **intellectual property** asset.
- G. When there are no identifiable creators of tangible research property, the portion of the Ohio State proceeds distributable under subsections V.B and V.C to creators will be distributed instead to the colleges, departments, and centers that obtained the tangible research property, according to guidelines established, in consultation with the IPPC and TCO, by the Office of Research. When multiple colleges, departments, and/or centers are involved in obtaining the tangible research property, the Ohio State proceeds will be



### **University Policy**

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- divided equally among these units, unless otherwise specified by the guidelines established by the Office of Research.
- H. Notwithstanding the other provisions in this policy, for licensed plant varieties, proceeds will be distributed pursuant to <u>Special Circular 178-01</u> entitled "OSU-OARDC Plant Germplasm Release Guidelines and Practices."
- I. Creators and TAF researchers will be entitled to receive a share of the Ohio State proceeds and TAF proceeds as provided by this policy even if their status with the university changes, including, for example, after their employment or program of study was terminated or completed. Following a change in the university Intellectual Property policy, creators will be entitled to receive, with respect to any distribution made after such a change, the greater of (i) the share of the net proceeds as provided by the university policy in effect at the time the intellectual property was disclosed or (ii) the share of the net proceeds as provided by the university Intellectual Property policy, TAF researchers will be entitled to receive, with respect to any distribution made after such a change, the greater of (i) the share of the TAF proceeds as provided by the university policy in effect at the time the research project for which the TAF Proceeds were received commenced or (ii) the share of the TAF proceeds as provided by the university policy in effect at the time the distribution is made. For the avoidance of doubt, creators and TAF researchers will not be entitled to receive any additional distribution or any other compensation with respect to distributions that were made prior to such a change in the policy.
- J. Nothing in this policy is intended to limit the transferability of rights of creators or TAF researchers to their heirs and assigns. Without limiting the foregoing, the distribution of proceeds to creators and TAF researchers under this section V will be made to creators and TAF researchers, their heirs and assigns, as applicable.
- K. This policy will not change the ownership or any other right with respect to intellectual property that was created before its effective date. However, any Ohio State proceeds or TAF Proceeds received after the effective date of this policy will be distributed according to this policy, whether the intellectual property was developed before or after the effective date.

#### VI. Conflicting agreements

- A. Notwithstanding any other provision in this policy to the contrary, nothing in the policy will be construed to limit the university from entering into specific written agreements with any **faculty**, staff, or student or with any third party (including in connection with **sponsored research**) that will specify different terms regarding the ownership, distribution, and commercialization of **intellectual property**. Such an agreement will supersede the terms of this policy if:
  - 1. The **creator** is a party to such an agreement; or
  - 2. The creator explicitly or implicitly consented to the terms of such an agreement prior to the creation of the intellectual property. Without limiting the generality of the foregoing, a decision of a creator to develop intellectual property under circumstances in which the creator knows, or should know, that such intellectual property is subject to an agreement will be considered consent to that agreement. However, continued employment or affiliation with the university is not, by itself, sufficient to establish consent as required by this section.
- B. Nothing in the policy will be construed to limit the university from entering into agreements with respect to the commercialization of **university IP**. Subject to subsection VI.A, those agreements would not undermine the university's obligations under this policy, and in particular, the arrangements set forth in section V.



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#### **PROCEDURE**

Issued: 05/03/1985

Revised: 04/15/2018 (target date)

#### VII. Intellectual property Evaluation, Protection, and Dissemination

- A. The senior vice president for business and finance and the provost will implement this policy on behalf of the university. All or a portion of the administration of activities with respect to this policy, except with respect to the responsibilities to administer disputes as set forth in section VIII, may be delegated to other university officials. In consultation with the provost, the senior vice president for business and finance, the senior vice president for research, and IPPC, the vice president responsible for TCO operations will establish operational guidelines and procedures, subject to the terms of this policy, for the administration of university IP. This will include, but is not limited to, determination of ownership, assignment, protection, licensing, marketing, maintenance of records, and oversight of revenue collection.
- B. In all its decisions pursuant to this policy, TCO will strive to reasonably: (i) advance the well-being of the people of Ohio and the global community by supporting the creation and dissemination of knowledge, and (ii) maximize the commercial value of **university IP**. Without limiting the foregoing, TCO will:
  - facilitate evaluation of university IP, including consideration of the market for such university IP and the competitive market landscape;
     identify potential commercial partners for university IP, which may include using multiple networks of
  - contacts, including those made available from the creator(s), alumni, and other sources;
  - 3. negotiate agreements, licensing or otherwise, in connection to the commercialization of **university IP**;
  - 4. take any other actions reasonably necessary to facilitate the commercialization of **university IP**; and 5. consult, as reasonably needed, with other constituencies, including university units.
- C. The university trusts faculty, staff, and students to participate throughout the intellectual property creation and preservation process. Creators must promptly disclose in writing all university IP they created with commercial value and other university IP required to be disclosed pursuant to an obligation to a third party
  - (such as obligations in connection with **sponsored research** arrangements), using a disclosure form.

    1. The disclosure must:
    - a. provide a full and complete description of the university IP;
    - b. describe the funding sources used in development of such university IP; and
    - c. identify all persons participating in the creation and development of the university IP.
  - 2. Upon request from TCO, the **creator(s)** will furnish any additional reasonable information, including the know-how related to the invention or discovery, and will execute documents in connection with the **university IP**, such as assignments and declarations.
  - 3. **Faculty**, staff, and students may ask the TCO to verify that pursuant to this policy a specific **intellectual property** is not **university IP** or that it is available for a certain specific use.
- D. Upon receipt by TCO of a disclosure form as described in subsection VII.C, the case will be assigned to a TCO representative. The assigned representative will facilitate evaluation of the **intellectual property** with respect to patentability, commercial potential, and obligations to sponsors or other third parties. This process will include:
  - 1. a discussion with the **creator(s)** led by the TCO representative;
  - a search of prior art, if necessary. The TCO representative may reasonably request that the creator(s) participate in such search; and
  - 3. determination of whether intellectual property protection, and in particular patent protection, should be pursued, taking into consideration, among other things, commercial potential. Although patent protection is sometimes sought for various noncommercial reasons, such as professional status, TCO will not seek protection for university IP, including patent protection, that is not deemed to have commercial potential (even if the university IP is intellectually meritorious), unless such protection (i) is requested by the sponsor of sponsored research and such sponsor pays for such protection or (ii) is authorized by the senior vice president for business and finance or the provost, at their sole discretion. The evaluation of the



# **University Policy**

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commercial potential will be based upon, among other things, patentability, scope of potential patent coverage, size of market, competition, and potential market share. The provost and/or the senior vice president for business and finance may establish guidelines regarding the role of the university's units in the process of commercializing and/or protecting the **university IP**.

- E. TCO will regularly update the **creator(s)** on the status of the **university IP** disclosed by such **creator(s)**.
  - TCO will provide the first status update within three months of receiving the disclosure form and a
    second status update within six months of the date of receipt of a disclosure form. Such status updates
    will include, but not be limited to, any filing decisions regarding intellectual property protection or
    transfer of the university IP.
  - TCO will provide a detailed summary of substantive decisions regarding protection, commercialization, and/or transfer of intellectual property promptly after those decisions are made.
- F. In some cases **university IP** will be assigned to its **creator(s)**.
  - Under the following circumstances, creator(s) will be allowed to require (subject to any required third party approvals, e.g., approval of a federal funding agency) assignment, free of charge, of university IP to them, and TCO will promptly effect such assignment:
    - a. The **creator(s)** provide TCO with evidence of a concrete potential commercialization partner for the **university IP**, such as a potential licensee thereof, and TCO does not complete, in good faith, its review and determination of the university's interest in such opportunity within six months.
    - b. The university IP may reasonably be protected by a patent, and TCO does not complete, in good faith, its review and determination of the university's interest in such university IP within six months of TCO becoming aware of a public disclosure of such university IP. Public disclosure under this section includes any disclosure that will make the university IP ineligible for patent protection in the United States, unless patent application is filed within one year of such disclosure.
    - c. TCO does not complete, in good faith, its review and determination of the university's interest in such university IP within twelve months of receipt of a disclosure form.
  - 2. The assignment of **university IP** under subsection VII.F.1 will be subject to the following:
    - a. The TCO may reasonably delay, and in extreme cases deny, a request pursuant to subsection VII.F.1
      if the creator's disclosure pursuant to subsection VII.C lacks material details in bad faith or if the
      creator failed to cooperate in good faith with TCO's reasonable requests;
    - All creators who are assigned the university IP pursuant to subsection VII.F.1 will grant the
      university a perpetual, worldwide, nonexclusive, royalty-free license limited to non-commercial use
      of such intellectual property; and
    - c. The assignment of university IP to the creator pursuant to subsection VII.F.1 will not affect any other obligations of the creator, including the obligation of disclosure and cooperation, set forth in subsection VII.C, with respect to any other university IP.
  - 3. TCO is encouraged to cause assignment to **creators** any **university IP** which, in TCO's discretion, is not currently commercialized by the university or on its behalf and is not expected to be commercialized by the university or on its behalf in the foreseeable future, unless such assignment would have an adverse impact on the ability to commercialize other **university IP** or such assignment cannot be legally made for any reason (e.g., a required third party approval was not secured). The university and **OSIF** may place terms on such assignment including requiring, at TCO's discretion, payment in consideration for such assignment.
  - 4. In the case of multiple creators, the university or OSIF will assign the intellectual property to all creators according to this subsection VII.F as joint owners, unless all creators agree in writing to a different arrangement. Except for assignment to the creator(s) according to this subsection VII.F (or an assignment from the university to OSIF), the university and OSIF will not assign university IP for no consideration.
  - TCO will update the creator's unit of any assignment of university IP to the creator pursuant to this section VII.F.
- G. University employees engaged in external consulting work or business, and those charged with approving such activities, are responsible for ensuring that agreements with external entities do not violate or conflict



### **University Policy**

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with this policy or any other university policy, including the Faculty Paid External Consulting policy and the Conflict of Interest and Work Outside the University policy.

#### VIII. Policy Interpretation and Dispute Resolution

- A. University constituents (such as **creators**, **creators**' units, employees, and TCO) should make every attempt to resolve disputes informally among themselves and, if needed, with the assistance of the Office of Academic Affairs, the university Ombudsman, and/or the Office of Legal Affairs.
- B. If informal processes and consultation do not provide resolution of a dispute regarding this policy, the following actions may be taken:
  - Any person or entity directly affected by decisions or actions of any other person or entity in connection
    with this policy, may appeal such decisions or actions to the IPPC if such person or entity (the claimant)
    believes such decisions or actions are inconsistent with this policy.
  - The claimant will submit the complaint in writing to the chair of the IPPC, who will determine whether the claimant has made a reasonable effort to resolve the dispute informally and whether the substance of the dispute appears to be within the scope of the IPPC's review authority under this policy.
  - Proceedings will be informal, but all parties will have adequate notice and an opportunity to be heard. The IPPC may establish additional procedures for resolving such disputes and may designate a sub-committee of its members for such procedures.
  - 4. After considering all relevant information and within 30 days of receipt of the complaint, the IPPC will prepare and send to the senior vice president for business and finance and the provost a report of its findings on the issues raised by the complaint and any corrective actions it recommends, within the scope of this policy.
  - 5. Within 30 days of receipt of the IPPC report, the senior vice president for business and finance and/or the provost will review the IPPC report and make a final decision on behalf of the university and provide this decision to all the parties involved and IPPC.
  - 6. IPPC will publish its reports (after removing certain information, as needed, to address reasonable privacy or secrecy concerns) and the decisions of the senior vice president for business and finance and/or the provost. The publication will be reasonably accessible to the university community. Those reports and decisions will guide future actions and decisions by the TCO and IPPC.

#### IX. Policy Review and Revisions

A. IPPC shall maintain this policy and shall review it and its effect, from time to time, as needed. IPPC shall review all proposed changes to this policy, and shall have the power to initiate its own proposed changes to this policy. The chair of IPPC shall be a member of the policy writing group for any revisions to this policy. Revisions to this policy shall be promulgated through the university policy process and then recommended to faculty council and the university senate. All revisions to this policy must be approved by the faculty council and the university senate, in addition to the other approvals required by the university policy process.

#### Responsibilities

Position or Office	Responsibilities	
Creator(s)	Disclose in writing to TCO all university IP with commercial value and other university IP required to be disclosed pursuant to an obligation to a third party (such as sponsored research arrangements) as set forth in the policy     Assist TCO in the commercialization process as set forth in the policy     Assign university IP to the university     Grant the university licenses as set forth in the policy	
Employees engaged in external consulting and those charged with approving such activities	Ensure that agreements with external entities do not conflict with this policy, or other university policies, including the Faculty Paid External Consulting policy and Conflict of Interest and Work Outside the University policy	
IPPC	Administer the dispute resolution process as set forth in the policy     Approve and/or consult the vice president responsible for TCO operations, TCO, and the Office of Research in connection with certain guidelines and procedures as set forth in the policy	



### **University Policy**

Applies to: Faculty, staff, and students

Position or Office	Responsibilities	
	Review the policy and its effects from time to time and proposed and review changes thereto as set forth in the policy	
IPPC Chair	Administer the dispute resolution process as set forth in the policy     Participate in the policy writing group activities for any revisions to the policy	
Office of Research	Review TAF proceeds distribution plans submitted by principal investigators as set forth in this policy     Establish guidelines, in consultation with IPPC and TCO, for the distribution of Ohio State proceeds when there are no identifiable creators of tangible research property	
OSIF	Distribute proceeds received for university IP as set forth in the policy	
Principal Investigators	Propose to Office of Research a distribution plan for TAF proceeds as set forth in the policy	
Provost	<ol> <li>Establish instructions and guidelines with respect to the distribution of certain Ohio State proceeds</li> <li>Together with SVP for B&amp;F, implement the policy as set forth therein</li> <li>Together with SVP for B&amp;F, review IPPC reports regarding disputes pertaining to the policy and make a final decision on behalf of the university as set forth in the policy</li> </ol>	
Senior vice president for business and finance (SVP for B&F)	Together with the provost, implement the policy as set forth herein     Together with the provost, review IPPC reports regarding disputes pertaining to the policy and make a final decision on behalf of the university as set forth in the policy	
тсо	Consider requests from unit heads or deans to assign copyrights to staff-creators and report to IPPC the type of such requests approved and denied Distribute proceeds received for university IP as set forth in the policy Facilitate the commercialization of university IP as set forth in the policy Facilitate the evaluation of the patentability, commercial potential, and obligations to sponsors or third parties of all intellectual property disclosed to TCO as set forth in the policy Update creators on the status of disclosed university IP as set forth in the policy Cause university IP to be assigned to its creators under certain limited circumstances as set forth in the policy and update the creators' units of any such assignments At the request of faculty, staff, or students, verify that a specific intellectual property is not university IP or that it is available for a certain specific use pursuant to the policy	
Unit heads and deans	May submit applications to TCO requesting that the university assign certain copyrights to staff-creator(s)	
Vice president responsible for TCO	In consultation with the provost, SVP for B&F, SVP for research, and IPPC, establish operational guidelines and procedures for the administration of <b>university IP</b> subject to the terms of the policy	
University	<ol> <li>Assigns certain intellectual property to their creators as set forth in the policy</li> <li>Grants licenses to use software not eligible for patent protection to its creator(s) and others for certain purposes as set forth in the policy</li> <li>Distribute proceeds received for university IP as set forth in the policy</li> </ol>	

#### Resources

#### Forms

Disclosure forms, tco.osu.edu

#### University Policies and Rules

Conflict of Interest and Work Outside the University policy, <a href="https://hr.osu.edu/public/documents/policy/policy130.pdf">hr.osu.edu/public/documents/policy/policy130.pdf</a>
Faculty Paid External Consulting policy, <a href="https://oaa.osu.edu/assets/files/documents/paidexternalconsulting.pdf">oaa.osu.edu/assets/files/documents/paidexternalconsulting.pdf</a>

Research Misconduct policy, orc.osu.edu/files/Misconduct\_Policy.pdf

Faculty Rule 3335-5-19, <a href="mailto:trustees.osu.edu/index.php?q=rules/university-rules/chapter-3335-5-faculty-governance-and-committees.html">trustees.osu.edu/index.php?q=rules/university-rules/chapter-3335-5-faculty-governance-and-committees.html</a>

#### Additional Guidance

Ohio Revised Code §3345.14, codes.ohio.gov/orc/3345.14

Frequently Asked Questions (FAQs) [to be developed]

Academic misconduct information for students, <u>oaa.osu.edu/academic-integrity-and-misconduct/student-misconduct</u>
Academic misconduct information for faculty, <u>oaa.osu.edu/academic-integrity-and-misconduct/faculty-obligations</u>



### **University Policy**

Applies to: Faculty, staff, and students

OSU-OARDC Plant Germplasm Release Guidelines and Practices Special Circular 178-01, Royalty Distribution Associated with Licensed Plant Varieties,

kb.osu.edu/dspace/bitstream/handle/1811/71922/OARDC\_special\_circular\_n178.pdf?sequence=1

#### Contacts

Subject	Office	Telephone	E-mail/URL
Dispute resolution; policy changes	The committee on Intellectual Property, Patents, and Copyrights (IPPC)	614-292-2423	lppc@osu.edu senate.osu.edu
Policy administration; general inquiries	Technology Commercialization Office	614-292-1315	innovation@osu.edu tco.osu.edu

#### History

Issued:	05/13/1985	Approved by BOT, 05/03/1985, Resolution #85-117; Issued as Patents and Copyrights
Revised:	05/04/1989	Approved by BOT, 05/04/1989, Resolution #89-97
Revised:	04/15/2018	Approved by University Senate, 03/08/2018; Approved by BOT, xx/xx/xxxx, Resolution
		#xx-xx; Renamed Intellectual Property

#### (APPENDIX LIV)

To: University Senate

From: Bill Brantley, Chair

**Rules Committee** 

Date: October 23, 2014

#### A PROPOSAL FROM THE RULES COMMITTEE TO AMEND FACULTY RULE 3335-19-03

WHEREAS Seven days are now required as advance notice of the senate agenda for all

members and alternate members of the senate; and

WHEREAS Seven days advance notice is not possible because the steering committee that

sets the senate agenda schedules its regular meetings fewer than seven days

before every senate meeting; and

WHEREAS Five days advance notice of senate agendas is sufficient for electronic

distribution;

NOW THEREFORE BE IT RESOLVED that the University Senate approve the proposed changes to the Rules of the University Faculty and respectfully request the concurrence of the Board of Trustees, said proposal to be effective upon approval by the Board of Trustees.

3335-19-03 Agenda.

(C) The secretary of the university senate shall send and make available electronically copies of the agenda for all senate meetings to all members and alternate members at least sevenfive days prior to the meeting.

#### 3335-13-04 Duplication of keys or other access devices.

Except as specifically authorized by the president, his or her designee, or a university official authorized to make decisions regarding the issuance of university keys or other access devices, no person shall knowingly make or cause to be made any key or other access device for any building, laboratory, facility, or room of the university.

(Board approval date: 4/12/63)

#### 3335-13-05 Control of dogs and other animals.

- (A) No person\_, being the owner or keeper, or harboring or having charge of any dog or other animal, shall permit a dog or other animal under his or her ownership or control the same upon the grounds of the Ohio state university unless it be underis on the personal control of its owner or keeper by a leash or harness not more than six feet in length\_and under the owner or keeper's handler's personal control, unless otherwise permitted to do so by the university. A dog or other animal that is, leashed or harnessed but unattended, is not under the personal control of its owner or keeper.
- (B) Nor\_shall such a person, being the owner or keeper or harboring or having charge of any dog or other animal, shall permit a dog or other animal under his or her ownership or control to permit the same inenter any university building or housing, except for seeing eye dogsservice animals, therapy animals, support animals, and/or any other type of animal approved by the University to accompany individuals in such areas provided that the person complies with any restrictions or limitations set by the University provided that and such animal remains under the personal control of its owner or keeper handler in accordance with paragraph (A) of this rule. This rule shall not, however, prevent, persons from bringing animals into university buildings when accompanying their masters and except for animals brought by their owner or keeper for use for approved research purposes or for observation or care by university veterinary clinic personnel.
- (CB) Any dog or other animal found upon the grounds of the Ohio state university or in any university building, except as permitted pursuant to the provisions of paragraphs (A) and (B) of this rule, may be taken into custody by university authorities. University authorities shall, as soon as practicable after assuming custody thereof, may, in their discretion, turn the dog or other animal over to appropriate county or municipal authorities for delivery to the custody of the humane society or other animal shelter. In such an event, the owner or keeper handler must contact the entity to which the animal was delivered to recover the animal in accordance with that entity's rules. Release from custody should be sought pursuant to the society's rules. The university may further require the owner or keeper handler of such a dog or other animal
- (C) The owner or keeper of any dog or other animal taken into custody by university officials pursuant to this rule shall pay a fine to the university, upon presentation of a bill therefor, to reimburse the university for costs incurred in impounding the dog or other animal and turning it over to the control and custody of county or municipal authorities.

(Board approval dates: 7/31/1969, 9/2/1971, 9/10/1976, 8/29/2001)

{00313955-1}

#### (APPENDIX LV)

The Ohio State University Board of Trustees April 6, 2018

#### Appointments/Reappointments of Chairpersons

LISA J. DOWNING, Chair, Department of Philosophy, effective July 1, 2018 through June 30, 2022

SIMONE C. DRAKE, Chair, Department of African-American and African Studies, effective June 1, 2018 through June 30, 2022

SAMIR N. GHADIALI, Chair, Department of Biomedical Engineering, effective September 1, 2018 through May 31, 2022

\*\*ANDREW H. GLASSMAN, Chair, Department of Orthopedics, effective July 1, 2017 through June 30, 2021

\*LANG LI, Chair, Department of Biomedical Informatics, effective July 1, 2017 through June 30, 2021

\*\*MICHAEL J. MILLER, Chair, Department of Plastic Surgery, effective July 1, 2017 through June 30, 2021

PHILLIP G. POPOVICH, Interim Chair, Department of Neuroscience, effective January 5, 2018 through January 4, 2019

JAMES ROCCO, Chair, Department of Otolaryngology-Head and Neck Surgery, effective December 1, 2017 through November 30, 2021

HARALD E. VAESSIN, Chair, Department of Molecular Genetics, effective June 1, 2018 through May 31, 2022

#### Faculty Professional Leaves

BENJAMIN ACOSTA-HUGHES, Professor, Department of Classics, effective Autumn Semester 2018

ROBERT A. AGUNGA, Associate Professor, Department of Agricultural Communication, Education and Leadership, effective Spring Semester 2019

ANNA M. BABEL, Associate Professor, Department of Spanish and Portuguese, effective Autumn Semester 2018 and Spring Semester 2019

ALISON I. BEACH, Associate Professor, Department of History, effective Autumn Semester 2018

SARAH M. BROOKS, Professor, Department of Political Science, effective Autumn Semester 2018

KATRA A. BYRAM, Associate Professor, Department of Germanic Languages and Literature, effective Autumn Semester 2018 and Spring Semester 2019

CINNAMON P. CARLARNE, Professor, College of Law, effective Spring Semester 2019

MARTHA E. CHAMALLAS, Professor, College of Law, effective Autumn Semester 2018 and Spring Semester 2019

JIAN N. CHEN, Assistant Professor, Department of English, effective Autumn Semester 2018

DAVID L. CLAMPITT, Professor, School of Music, effective Spring Semester 2019

<sup>\*\*</sup>Reappointment

<sup>\*</sup>New Hire

The Ohio State University Board of Trustees April 6, 2018

RUTH COLKER, Professor, College of Law, effective Spring Semester 2019

PETER F. CRAIGMILE, Professor, Department of Statistics, effective Autumn Semester 2018 and Spring Semester 2019

MICHAEL W. DAVIS, Professor, Department of Mathematics, effective Spring Semester 2019

ROBERT M. DE JONG, Professor, Department of Economics, effective Spring Semester 2019

ELLEN E. DEASON, Professor, College of Law, effective Autumn Semester 2018 and Spring Semester 2019

XIAOYAN DENG, Associate Professor, Department of Marketing and Logistics, effective Spring Semester 2019

LOUIS F. DIMAURO, Professor, Department of Physics, effective Autumn Semester 2018

MICHAEL T. DURAND, Associate Professor, School of Earth Sciences, effective Autumn Semester 2018

ALLISON B. ELLAWADI, Associate Professor, Department of Speech and Hearing Sciences, effective Autumn Semester 2018 and Spring Semester 2019

WILLIAM P. EVELAND, Professor, School of Communication, effective Spring Semester 2019

JESSE A. FOX, Associate Professor, School of Communication, effective Spring Semester 2019

CHRISTOPHER M. HANS, Associate Professor, Department of Statistics, effective Spring Semester 2019

RADU HERBEI, Associate Professor, Department of Statistics, effective Spring Semester 2019

CHRISTOPHER F. HIGHLEY, Professor, Department of English, effective Spring Semester 2019

DAVID G. HORN, Professor, Department of Comparative Studies, effective Spring Semester 2019

GREGORY JUSDANIS, Professor, Department of Classics, effective Autumn Semester 2018 and Spring Semester 2019

HARRIS P. KAGAN, Professor, Department of Physics, effective Spring Semester 2019

CHRIS W. KNOESTER, Associate Professor, Department of Sociology, effective Autumn Semester 2018

CHRISTOPHER S. KOCHANEK, Professor, Department of Astronomy, effective Autumn Semester 2018 and Spring Semester 2019

DMITRI S. KUDRYASHOV, Associate Professor, Department of Chemistry and Biochemistry, effective Autumn Semester 2018 and Spring Semester 2019

MARCUS J. KURTZ, Professor, Department of Political Science, effective Autumn Semester 2018

LAURA N. LISBON, Professor, Department of Art, effective Autumn Semester 2018

FERNANDO MARTINEZ-GIL, Associate Professor, Department of Spanish and Portuguese, effective Spring Semester 2019

The Ohio State University April 6, 2018 Board of Trustees

REBECCA J. MCCAULEY, Professor, Department of Speech and Hearing Sciences, effective Autumn Semester 2018

SCOTT J. MCCOY, Professor, School of Music, effective Spring Semester 2019

KENDRA MCSWEENEY, Professor, Department of Geography, effective Autumn Semester 2018 and Spring Semester 2019

SUSAN E. MELSOP, Associate Professor, Department of Design, effective Autumn Semester 2018 and Spring Semester 2019

MARIA N. MIRITI, Associate Professor, Department of Evolution, Ecology and Organismal Biology, effective Autumn Semester 2018 and Spring Semester 2019

LUPENGA MPHANDE, Associate Professor, Department of African-American and African Studies, effective Spring Semester 2019

MARGARET E. NEWELL, Professor, Department of History, effective Spring Semester 2019

DALE A. OESTERLE, Professor, College of Law, effective Spring Semester 2019

JOHN E. OPFER, Professor, Department of Psychology, effective Autumn Semester 2018

NIKOLE D. PATSON, Associate Professor, Department of Psychology, effective Spring Semester 2019

ANA E. PUGA, Associate Professor, Department of Theatre, effective Autumn Semester 2018

SHELLEY F. QUINN, Associate Professor, Department of East Asian Languages and Literatures, effective Spring Semester 2019

JENNIFER T. RICHARDSON, Associate Professor, Department of Art Administration, Education and Policy, effective Autumn Semester 2018

EUGENIA R. ROMERO, Associate Professor, Department of Spanish and Portuguese, effective Autumn Semester 2018

MITCHELL ROSE, Associate Professor, Department of Dance, effective Spring Semester 2019

GUY A. RUB, Associate Professor, College of Law, effective Autumn Semester 2017 and Spring Semester 2018

TAMAR RUDAVSKY, Professor, Department of Philosophy, effective Autumn Semester 2018

BARBARA S. RYDEN, Professor, Department of Astronomy, effective Autumn Semester 2018

KRISTINA M. SESSA, Associate Professor, Department of History, effective Autumn Semester 2018

AMY E. SHUMAN, Professor, Department of English, effective Spring Semester 2019

JENNIFER SIEGEL, Professor, Department of History, effective Spring Semester 2019

CLARE A. SIMMONS, Professor, Department of English, effective Autumn Semester 2018

RYAN T. SKINNER, Associate Professor, School of Music, effective Autumn Semester 2018

STEPHANIE J. SMITH, Associate Professor, Department of History, effective Autumn Semester 2018

The Ohio State University Board of Trustees

April 6, 2018

ALEXANDER S. THOMPSON, Associate Professor, Department of Political Science, effective Autumn Semester 2018 and Spring Semester 2019

TODD A. THOMPSON, Professor, Department of Astronomy, effective Autumn Semester 2018 and Spring Semester 2019

JOSEPH H. TIEN, Associate Professor, Department of Mathematics, effective Autumn Semester 2018 and Spring Semester 2019

JAMES T. TODD, Professor, Department of Psychology, effective Spring Semester 2019

SARAH VAN BEURDEN, Associate Professor, Department of History, effective Autumn Semester 2018 and Spring Semester 2019

SARA E. WATSON, Associate Professor, Department of Political Science, effective Autumn Semester 2018 and Spring Semester 2019

BALDWIN M. WAY, Associate Professor, Department of Psychology, effective Autumn Semester 2018 and Spring Semester 2019

DUANE T. WEGENER, Professor, Department of Psychology, effective Autumn Semester 2018

JENNIFER WILLGING, Associate Professor, Department of French and Italian, effective Autumn Semester 2018

ZHIGUO XIE, Associate Professor, Department of East Asian Languages and Literatures, effective Autumn Semester 2018

CHUAN XUE, Associate Professor, Department of Mathematics, effective Autumn Semester 2018

BURAK YILMAZ, Associate Professor, College of Dentistry, effective Autumn Semester 2018 and Spring Semester 2019

AMY M. YOUNGS, Associate Professor, Department of Art, effective Autumn Semester 2018 and Spring Semester 2019

YING ZHANG, Associate Professor, Department of History, effective Spring Semester 2019

HUI ZHENG, Associate Professor, Department of Sociology, effective Autumn Semester 2018 and Spring Semester 2019

#### Faculty Professional Leave Change

JENNIFER CROCKER, Professor, Department of Psychology, effective Autumn Semester 2017 only — change from Autumn Semester 2017 and Spring Semester 2018

The Ohio State University April 6, 2018 Board of Trustees

#### **Emeritus Titles**

CHERYL L. ACHTERBERG, Department of Human Sciences, with the title Professor Emeritus, effective July 1, 2018

SUDHA AGARWAL, College of Dentistry, with the title Professor Emeritus, effective April 1, 2018

SAMUEL AMELL, Department of Spanish and Portuguese, with the title Associate Professor Emeritus, effective April 1, 2018

JAMES K. BELKNAP, Department of Veterinary Clinical Sciences, with the title Professor Emeritus, effective July 1, 2018

ROBERT J. BIRKENHOLZ, Department of Agriculture, Communications, Education and Leadership, with the title Professor Emeritus, effective September 1, 2018

DAVID M. BLAU, Department of Economics, with the title Professor Emeritus, effective July 1, 2018

PAMELA S. BRADIGAN, University Libraries, with the title Professor Emeritus, effective June 1, 2018

JILL M. BYSTYDZIENSKI, Department of Women's, Gender and Sexuality Studies, with the title Professor Emeritus, effective September 1, 2018

MICHELE P. CARR, College of Dentistry, with the title Associate Professor Emeritus, effective February 1, 2018

JOHN P. CHEATHAM, Department of Pediatrics, with the title Professor Emeritus, effective January 1, 2018

ROGER D. CHERRY, Department of English, with the title Associate Professor Emeritus, effective June 1, 2018

SUSAN H. DELAGRANGE, Department of English, with the title Associate Professor Emeritus, effective July 1, 2018

JOSEPH FIKSEL, Department of Integrated Systems Engineering, with the title Research Associate Professor Emeritus, effective April 1, 2018

RALPH GARDNER, Department of Educational Studies, with the title Professor Emeritus, effective August 1, 2018

JAVIER GUTIERREZ REXACH, Department of Spanish and Portuguese, with the title Professor Emeritus, effective April 1, 2018

ROBERT L. HENEMAN, Department of Management and Human Resources, with the title Professor Emeritus, effective June 1, 2018

GAIL E. HERMAN, Department of Pediatrics, with the title Professor Emeritus, effective July 1, 2017

NANCY J. JOHNSON, Department of English, with the title Professor Emeritus, effective August 1, 2018

L. JAMES LEE, Department of Chemical and Biomolecular Engineering, with the title Helen C. Kurtz Chair Emeritus, effective September 1, 2018

EDWARD J. MALECKI, Department of Geography, with the title Professor Emeritus, effective June 1, 2018

The Ohio State University Board of Trustees April 6, 2018

JULIE E. MANGINO, Department of Internal Medicine, with the title Professor-Clinical Emeritus, effective February 1, 2018

THELMA E. PATRICK, College of Nursing, with the title Associate Professor Emeritus, effective January 6, 2018

JOY H. REILLY, Department of Theatre, with the title Associate Professor Emeritus, effective January 1, 2017

MARK W. SHANDA, Department of Theatre, with the title Professor Emeritus, effective September 1, 2017

GAYLYNN J. SPEAS, Department of Anesthesiology, with the title Assistant Professor-Clinical Emeritus, effective January 1, 2018

ERIC E. SPIRES, Department of Accounting and Management Information Systems, with the title Associate Professor Emeritus, effective April 1, 2018

STANLEY R. THOMPSON, Department of Agricultural, Environmental and Development Economics, with the title Professor Emeritus, effective March 1, 2018

DAVID A. WILKIE, Department of Veterinary Clinical Sciences, with the title Professor Emeritus, effective June 30, 2018

JOHN W. WILKINS, Department of Physics, with the title Ohio Eminent Scholar Emeritus, effective January 1, 2018

#### **COLLEGE OF MEDICINE**

#### PROMOTION TO PROFESSOR

Yu, Jianhua, Internal Medicine, effective April 1, 2018

#### (APPENDIX LVI)

Dr. Bennet Givens University Senate 119 Independence Hall 1923 Neil Avenue Columbus, OH 43210 February 19, 2018

Dear Dr. Givens,

The Committee on Honorary Degrees of the University Senate has carefully reviewed the dossier of Dr. Matthieu Ricard, a Buddhist monk, and the French translator of his Holiness the Dalai Lama, for an honorary degree from The Ohio State University. Dr. Benjamin Hoffmann, Assistant Professor of Early Modern French Studies brought the nomination forward.

Matthieu Ricard received a PhD in cell genetics in 1972, after working under the guidance of Nobel Prize Winner, François Jacob. After the completion of his doctoral work, he moved to the Himalayan region where he has been living for the past 45 years. An international best-selling author and a prominent speaker, he has authored and co-authored numerous books translated into over twenty languages, including *The Quantum and the Lotus* (a dialogue with the astrophysicist Trinh Xuan Thuan), and *The Monk and the Philosopher*, a dialogue with his father, the French philosopher Jean Francois Revel.

Dr. Ricard is a world-renowned scholar, has led critical global efforts centering on research and teaching of the contemplative practices. He has worked with scientists at Princeton, the University of Wisconsin at Madison and UC-Berkley to show how meditation retrains the brain and creates new neural pathways that allow the brain to develop and change well into adulthood. He is an active member of the Mind and Life Institute, the premier society bringing together scholars and practitioners of contemplative sciences in order to foster growth and collaboration within this field.

Dr. Ricard is also a global humanitarian. He has been involved in several efforts, throughout the world, but especially in South Asia, benefiting the underprivileged. More recently, he extended his preaching of compassionate care and altruism to include all beings. His latest book, *A Plea for the Animals*, is a scientifically informed, well-written document, calling urgent attention to extend our care and respect to all animals that inhabit this planet with us. Since 2000, Dr. Ricard has used royalties from his many publications to help support the work of this charity, which has funded schools, hospitals and other organizations in India, Nepal and among Tibetan people in China. Dr. Ricard is a recipient of the French National Order of Merit award.

The interdisciplinary support this nomination received is worth highlighting. Faculty members in arts and sciences, library faculty in the humanities (French and Italian as well as East Asian Studies) and in psychology have come together to support this nomination of a scientist who although trained as a cell geneticist, has spent a lifetime demonstrating a commitment to compassion, contemplation, and health and wellness. His life and work represents the strength of merging science and art in order to make a difference in the world. This strength clearly mirrors

the foundational principles of the College of Arts and Sciences and The Ohio State University's public mission.

By a unanimous vote, the Committee on Honorary Degrees recommends that Dr. Matthieu Ricard's dossier be forwarded to the University Senate for their consideration, and recommends the title of Doctorate of Humane Letters *honoris causa* 

Respectfully submitted,

José O. Díaz

Jose O. Diaz, Ph.D.

Associate Professor

Chair, Senate Honorary Degrees Committee

#### (APPENDIX LVII)

#### Memorandum

To: University Senate

From: Maria N. Miriti, Chair, Council on Academic Affairs

Subject: Ph.D. in Engineering Education Degree Program

Date: January 8, 2018

A PRPOSAL FROM THE COUNCIL ON ACADEMIC AFFAIRS TO ESTABLISH A DOCTOR OF PHILOSOPHY IN ENGINEERING EDUCATION DEGREE PRORGAM, COLLEGE OF ENGINEERING

Whereas the program will lead to the terminal degree for the new Department of

Engineering Education – an entry level, interdisciplinary research program that

combines the disciplines of engineering and education;

Whereas among the goals of the program are that the successful graduate will be able to:

identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs; design, conduct, and critique research in engineering education; and create, teach, and assess courses and curricula in

engineering; and

Whereas the curriculum includes core courses, research methods courses, specialization

electives, and traditional engineering course work, along with dissertation research; and employment opportunities for graduates exist in colleges and

universities, foundations, non-profit organizations; and

Whereas no similar programs exist within Ohio and this one aligns clearly with both the

research and land grant missions of this university; and

Whereas the program: will be administered by the Department of Engineering Education

through a Graduate Studies Committee; is a part of the strategic planning of that Department; has the resources, both current and planned, to be established and maintained; and has the support of the leadership of the

College of Engineering; and

Whereas the proposal was thoroughly reviewed by a joint committee of the Council on

Academic Affairs and the Graduate Council, and then was approved by the full

Council on Academic Affairs at its meeting on November 1, 2017;

Therefore be it resolved that the University Senate approve the proposal to establish a Doctor of Philosophy in Engineering Education degree program and respectfully request approval by the Board of Trustees.

From: Smith, Randy

To: Christy, Ann; kajfex.2@osu.edu; Tomasko, David

Cc: Smith, Randy: Reed, Katie; Miriti, Maria; Herness, Scott; Schlueter, Jennifer; Miner, Jack; Williams, David B.; McPheron, Bruce A.; Schmiesing, Ryan; Wolf, Kay: Whitacre, Caroline; Welsenberger, Jan; Givens, Bennet;

Schweikhart, Sharon; Lilly, Blaine; Torma, Hannah; Thompson, Blake; Cox, Monica E.; Kemp, Kathleen; Harris, Brad; Hofherr, Michael B.; Hume, Beth; Manderscheid, David C.; Jaggars, Damon E.; Ako-Adounvo, Gifty; Adams-Gaston, Javaune; Myers, Stephen; Krissek, Lawrence; Montalto, Catherine; Kalish, Alan; Freuler, Rick

Subject: Ph.D. in Engineering Education

Date: Wednesday, November 1, 2017 4:13:36 PM

Attachments: image001.png

#### Ann, Rachel, and David:

Following its detailed review by the joint committee of the Council on Academic Affairs and the Graduate Council, the proposal from the Department of Engineering Education to establish a degree program leading to the Doctor of Philosophy degree, was approved by the full Council on Academic Affairs at its meeting on November 1, 2017. Thank you for attending the meeting to respond to questions/comments.

The proposal will now be sent to the University Senate with a request that it be included on the agenda of the Senate meeting on <u>January 18, 2018</u>. Professor Maria Miriti, Chair of the Council on Academic Affairs, will present the proposal, but it will be important for you to attend that meeting and I will send details as we get closer to it, If approved there, it will be sent to the Office of the Board of Trustees with a request for action at the Board meeting on <u>February 2, 2018</u>. Throughout this process Professor Scott Herness, Interim Dean of the Graduate School, will work with you on approval through the Ohio Department of Higher Education.

Please keep a copy of this message for your file on the proposal and I will do the same for the file in the Office of Academic Affairs.

If you have any questions please contact Professor Miriti (.1) or me.

I am well aware that this is an exciting time for the new Department – its faculty, students and staff – and what a milestone event having this new degree will be.

Congratulations on the successful completion of this very important stage of the review/approval process!

Randy



#### W. Randy Smith, Ph.D.

Vice Provost for Academic Programs
Office of Academic Affairs
203 Bricker Hall, 190 North Oval Mall, Columbus, OH 43210
614-292-5881 Office
smith.70@osu.edu

TO: Randy Smith, Vice Provost for Academic Programs

FROM: Jennifer Schlueter, Faculty Fellow for Curriculum, Graduate School

DATE: 24 October 2017

RE: Proposal for a new PhD in Engineering Education

The College of Engineering is proposing a new PhD in Engineering Education, which will build upon the Department of Engineering Education's work in engineering education research, emphasizing teaching as a way of knowing. Support has been obtained from the College of Education and Human Ecology's Department of Teaching and Learning.

The proposal was received by the Graduate School in June 2017. It was reviewed by the combined GS/CAA Curriculum subcommittee, chaired by Interim Dean Herness, on 1 June 2017, and revisions were requested on 9 June 2017. Revisions were received in September 2017, and the proposal received its second review by the combined GS/CAA Curriculum subcommittee, now chaired by the Faculty Fellow, on 6 October 2017. Small revisions were requested. These revisions were received on 13 October 2017. The Faculty Fellow forwarded it on to the Graduate Council for their review on 13 October 2017. The proposal was reviewed and approved at the Graduate Council on 23 October 2017. The positive results of this review were shared with the proposers on 24 October 2017.

 From:
 Christy, Ann

 To:
 Schlueter, Jennifer

 Cc:
 Herness, Scott; Toft, Jill A.

Subject: Re: GS/CAA curriculum subcommittee review of revised proposal for PhD in Engineering Education

Date: Friday, October 13, 2017 1:48:17 PM

#### Greetings:

Thank you for sharing the good news. After polling our Engineering Education graduate studies committee members, I have constructed our response to the two questions raised by the GS/CAA subcommittee:

1.) "We see on page 3 line 14 that 30 credit hours beyond the BA may be transferred into this program. This would mean that an OSU student currently enrolled in a traditional engineering program might be able to shift career paths by applying for admission and, if accepted, transferring in 30 completed hours. One reviewer wondered if there is planned or current potential for a transfer to the PhD for pre/post candidacy graduate students in traditional engineering departments?"

Yes, assuming that their 30 credits align with the courses in our program. Most likely they will not have taken education courses so they would only be transferring in technical disciplinary engineering courses and maybe research methods courses. However, it is possible for someone to do this.

2.) "We see in Appendix 2c the route through the degree for a student who does not hold the M.S. Is there a planned or current potential for a student in this PhD program who clears the candidacy exam to qualify for the M.S.?"

Not at this time, since we don't have a master's program. However, we'd like to have one eventually, and will include this information in any masters program proposal that we submit in the future. We are currently planning to work on a master curriculum design institute under UCAT guidance next summer (Su 2018).

I hope this message answers your concerns, and I assume the proposal itself does not need to be revised at this time. However, please let me know if you would prefer some additional language added to the proposal.

Best regards,



Assistant Dean for Teaching and Learning, College of Engineering

Professor, Department of Engineering Education

Professor, Department of Food, Agricultural, and Biological Engineering

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From: "Schlueter, Jennifer" < schlueter.10@osu.edu>

**Date:** Friday, October 6, 2017 at 4:02 PM **To:** "Ann D. Christy" < christy.14@osu.edu>

Cc: "Herness, Scott" < herness.1@osu.edu >, "Toft, Jill A." < toft.20@osu.edu >

Subject: GS/CAA curriculum subcommittee review of revised proposal for PhD in Engineering

Education

#### Dear Professor Christy:

At its October 6 meeting, the combined GS/CAA curriculum subcommittee (which I chair as Faculty Fellow) reviewed your revised proposal for a new PhD in Engineering Education. The subcommittee was quite satisfied with your responses to the queries made over the summer and remains extremely enthusiastic about this new program.

Some questions arose about consideration that has been given to alternative routes through this new degree. They include:

- We see on page 3 line 14 that 30 credit hours beyond the BA may be transferred into this program. This would mean that an OSU student currently enrolled in a traditional engineering program might be able to shift career paths by applying for admission and, if accepted, transferring in 30 completed hours. One reviewer wondered if there is planned or current potential for a transfer to the PhD for pre/post candidacy graduate students in traditional engineering departments?
- We see in Appendix 2c the route through the degree for a student who does not hold the M.S. Is there a planned or current potential for a student in this PhD program who clears the candidacy exam to qualify for the M.S.?

Upon receipt of your answers to these questions, we will be delighted to forward this proposal on to the Graduate Council for their review and approval and, subsequently, to CAA for theirs. I'll keep you posted as it moves along.

Best, Jen

#### Jennifer Schlueter, PhD

Associate Chair, Department of Theatre
Associate Professor | Lab Series Coordinator | Editor, Theatre/Practice
Faculty Fellow, Curriculum, Graduate School

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#### **Department of Engineering Education**

College of Engineering 244 Hitchcock Hall 2070 Neil Avenue Columbus, OH 43210

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September 5, 2017

Dr. Scott Herness Interim Vice Provost for Graduate Studies Interim Dean of the Graduate School The Ohio State University 250 University Hall 230 North Oval Mall Columbus, OH 43210

RE: Response to Review of Proposal to Establish a PhD in Engineering Education

#### Greetings Dr. Herness:

Thank you for your detailed review of our proposal to establish a PhD in Engineering Education at the Ohio State University. Attached is our revised proposal which addresses each of the requests for clarifications and other suggestions made by the Graduate School / Council on Academic Affairs curriculum subcommittee as communicated in your letter dated June 9, 2017. Below is an itemized list of those changes and where in the revised document the changes can be found

- 1. Nature of scholarship and types of dissertation topics: The nature of scholarship in the field of engineering education is described in more detail on pages 2 (lines 24-40) and 10 (lines 8-20). The proposed degree is a research doctorate, and this has been more explicitly stated on pages 1 (line 9) and 3 (line 14). Types of dissertation topics are described, citing current research being pursued by OSU faculty in the department (page 7, line 37 to page 8, line 12) and ten years of dissertation titles from benchmark engineering education graduate programs at Purdue University and Virginia Tech (page 8, lines 14 22 and Appendix 2e, pages 1-3), the two oldest and most respected engineering education programs in the U.S.
- 2. Faculty Numbers: The section describing faulty numbers, "P" status, and collaboration with the College of Education and Human Ecology has been expanded (page 18, line 23 to page 19, line 2), as has the section describing the College of Engineering's commitment to hiring tenure track faculty in the near future (page 22, lines 5-10).
- Advising: Students would be advised through the elective portion of the program, leading to an individualized experience. A student advising sheet has been developed which is described on page 7 (lines 1-8) and presented in its entirety in Appendix 2d.
- 4. Research Methods coursework: Nine credits of research methods under three categories (qualitative, quantitative, and advanced/ mixed) are required, but the courses that any given student could use to meet this requirement can and will vary. The revised proposal lists several example existing courses under each of the three categories on page 4 (line

- 26) through page 5 (line 11). It is not anticipated that the numbers of new students taking any one of these courses will be small, and should not exceed course enrollment limits. Faculty from several of the course offering departments have said that they welcome additional student numbers in their classrooms. Any additional courses proposed by the Department of Engineering Education to meet this requirement will, of course, seek concurrences from the appropriate colleges / departments, but none are proposed at this time.
- 5. Qualifying exam: Details about the qualifying exam are presented on page 6 (lines 31-40). The qualifying exam will be completed by students once they complete these three of the required core engineering education courses: ENGREDU 6100, 6200, and 7780. Qualifying exams will be administered twice a year, once in January and once in August. Students will have two weeks to answer and submit an electronic response to three questions, one based on each course. The graduate committee will be responsible for developing and assessing the responses. Students may receive a high pass, pass, or fail for each response. Students will have two attempts to receive at least a pass on each question. Students only have to retake questions they fail in their first attempt. If after their second attempt, a student does not received at least a pass on all three questions, they will be dismissed from the program.
- 6. Traditional Disciplinary Engineering coursework: A more detailed description of the engineering coursework requirement is presented on page 6 (lines 6-25), including more information about the national professional licensing exam that can be used to show equivalence of an accredited undergraduate engineering degree. In the United States, engineers are licensed at the state level by professional licensing boards. Professional Engineering (P.E.) licensure candidates must meet a combination of requirements in education, experience, and exams. The first of the two major national exams, usually taken within six months of graduation from an accredited undergraduate program, is the Fundamentals of Engineering (FE) examination (NCEES, 2017). A few states will allow candidates with undergraduate degrees in non-engineering STEM fields to sit for these exams, if they can demonstrate appropriate on-the-job engineering experience.
- 7. Student Funding: More details about student funding are presented on page 15 (lines 5-8), page 16 (lines 7-22), and page 22 (lines 12-25). Graduate students will be supported by a combination of university and college fellowships, research grants, teaching assistantships, new faculty start-up allocations, and other departmental funding. The department's large teaching commitment, serving more than 3500 undergraduates annually, means that there is an assured pool of more than twenty graduate teaching assistantships (GTAs) available each year, although not all of these GTA positions will always be filled by engineering education doctoral students.
- 8. Specializations: This doctoral program is not proposing to create formal transcriptable specializations. All students are required to complete twelve hours of specialized coursework, but there is no expectation that any specializations will appear on the student transcript unless the student specifically chooses to draw upon existing OSU programs that are already noted on transcripts. This is described on pages 5 (line 13) through 6. (line 2).
- Masters degree: One or more Masters' degrees will be developed over the next few years, but details have yet to be developed and thus cannot be included in this doctoral

- proposal. A full Curriculum Development Institute, led by the University Center for the Advancement of Teaching, is planned for the summer of 2018 to work on engineering education masters programs.
- 10. Administration: More details about how the graduate program will be administered are described on pages 8 (line 28) through page 9 (line 9). The proposed doctoral program will be administered by the department's Graduate Studies Committee whose members include faculty and staff representing different areas within the department. It includes at least three faculty members with level-P status, the graduate program coordinator, and one graduate student representative. The chair of the Graduate Studies Committee is appointed by the department chair for a three-year term and also serves as a member of the College's Graduate Program Chairs Committee. The Graduate Studies Committee's responsibilities include all graduate curriculum matters related to the graduate courses offered by the department. The Committee will recruit and select prospective graduate students, recommend the award of fellowships and graduate teaching and research assistantships to incoming students, ensure that the graduate curriculum and the program graduate study rules are kept current, administer an annual review process for graduate students in the program, review course assessment reports from program directors, administer the graduate examinations required by the program and the Graduate School, and carry out any other charges related to graduate studies that may be requested by the department chair.
- 11. **Formatting**: The proposal has been reformatted to align with the required format for the eventual review by the Ohio Department of Higher Education.

Again, thank you for your thorough review and suggestions for improvement.

Sincerely,

Ann D. Christy, Ph.D., P.E.

Professor and Chair of the Graduate Studies Committee, Dept. of Engineering Education Professor, Department of Food, Agricultural, and Biological Engineering Assistant Dean of Teaching and Learning, College of Engineering

 From:
 Herness, Scott

 To:
 Christy, Ann

 Cc:
 Toft, Jill A.; Herness, Scott

Subject: RE: GS?CAA Curriculum subcommittee PhD Eng Ed

Date: Wednesday, June 14, 2017 10:38:23 AM

Attachments: image002.png

Ann,

Thanks for reaching out.

The proposal should be in the format initially described in the PDP section of the GUIDELINES: the ten section headers that are found on page 6. This will be true for both the PDP and the Full Proposal. Only the PDP has a page limitation. All that we do at the University level and the Full Proposal have no page limitations.

My earlier suggestion to you was to initially develop the proposal using these ten section headers so that you would not have to re-do it when preparing for ODHE submission. I understand that the GUIDELINES aren't crystal clear; that was supposed to be my job! It is easiest to develop the proposal (putting everything in it with no page limitation) in the required format; then you only task is to whittle it down to five pages for the single PDP step. The Full Proposal would then be ready for editing once PDP comments are received.

You can continue in the present format now, should you like. OR, you could do the inevitable reformatting now. It doesn't matter; I just wanted to bring this to your attention since we will have to address it in the near future.

More questions? Just reach out.

Best.

#### Scott



THE OHIO STATE UNIVERSITY

#### **Scott Herness**

Interim Vice Provost for Graduate Studies Interim Dean of the Graduate School

#### **Graduate School**

250 University Hall, 230 North Oval Mall Columbus, OH 43210-1366 614-247-7413 Office / 614-292-3656 Fax

herness.1@osu.edu

From: Christy, Ann

**Sent:** Tuesday, June 13, 2017 2:59 PM **To:** Herness, Scott <herness.1@osu.edu>

Subject: Re: GS?CAA Curriculum subcommittee PhD Eng Ed

From: Herness, Scott To: Christy, Ann Cc:

Toft, Jill A.; Herness, Scott

GS?CAA Curriculum subcommittee PhD Eng Ed Subject: Saturday, June 10, 2017 11:03:04 AM

Attachments: image002.png

June 9, 2017

Ann Christy Professor Dept. Engineering Education College of Engineering

### PhD in Engineering Education

The combined Graduate School/Council on Academic Affairs curriculum subcommittee met on June 1st and, among its agenda items, considered the proposal to create a new PhD degree in The degree, an 80 credit hour dissertation based doctorate, would Engineering Education. be housed in the newly formed Department of Engineering Education in the College of Engineering. The subcommittee found the curriculum and assessment of the core courses to be exceptionally well developed and clearly narrated. However, they request clarification on a number of other points. These comments are provided in effort to strengthen the proposal prior to its subsequent review process including the required statewide review though the Ohio Department of Higher Education.

- A major question that arose concerned the nature of the scholarship students would pursue in completing their dissertation. At present, committee members questioned whether the intent is to produce a professional or a research doctorate, i.e. graduates who practice the profession (such as the Ed.D) or who contribute to the scholarship of the profession through original research (the PhD). The latter is assumed. The proposal details its core curriculum well yet the subsequent thirty research hours are not described. Elective courses may provide a preview into the types of expected dissertation topics, but descriptions are not extant. Examples of varying dissertation topics, the nature of the research projects, and integration into elective themes would be very helpful.
- Another significant concern regards the number of faculty who would be eligible to participate in the graduate program. To serve as a doctoral advisor, faculty will require "P" status from the Graduate School. At present, only five of the listed faculty would be eligible for "P" status. As a newly formed department, five additional faculty are promised. Is this a firm commitment and will these be P-eligible (i.e., tenure-track) hires? Also, will faculty from the College of Education and Human Ecology participate in the doctoral program? A better more explicit description of number of faculty

eligible to serve as advisors (P-status) and the projected enrollment (at one point up as high as 50 students per year) is required.

- A question arose as to how a student would he advised through the elective portion of the curriculum. It is assumed that these electives parallel the dissertation topic (as previously mentioned). Will there be a student advising sheet (look to CEHE for some excellent examples of doctoral student advising sheets)?
- Nine credits in research methods are required; however, no courses are listed. Please
  provide more detail for this portion of the curriculum. If these are pre-existing courses
  in other colleges/departments, then concurrences will be needed.
- Appendix 2C presents a qualifying exam at the end of the first year which is not mentioned in the proposal. Details of the proposal would be appreciated. For example, what material is covered in the exam? Who gives/grades the exam? What are the alternatives/consequences for the student who fails?
- Twelve credit hours in traditional engineering coursework at 5000 level or higher are required. The caveat is presented that some students (e.g., those with non-engineering STEM background) may need to enroll in engineering course work below the 5000 level. It is important to note that not all of this course work can count towards the PhD and this constraint should be transparent to the student. Further, a description of how students may test-out through Fundamentals of Engineering (FE) Exam (with which most committee members are unfamiliar) would be helpful.
- How students will be funded in the program could be more explicitly described. GA
  lines are mentioned in the proposal (21 GTAs on pg. 1; 32 GTAs on pg. 17) though it is
  uncertain if these lines will partially or completely be available to support students in
  this graduate program. Any detail on committed fiscal support for the program from
  the department or college would strengthen the proposal.
- Will the doctoral program create formal transcriptable specializations in the future?
- A Master's degree has been mentioned as a long-term goal. How would an embedded
  Master's degree be integrated into the doctoral program? In the future, would the
  program wish to admit to a Master's degree before progression to the doctorate or
  create an embedded Master's degree for post-candidacy students unable to
  adequately progress to the PhD? Either of these scenarios might best be considered
  within this proposal, rather than at a later date.
- There is no mention of the graduate program will be administered. How will the graduate studies committee be formed? How will the Graduate Studies Chair chosen? Will the students have annual reviews by the committee?

Finally, I note for information purposes that the proposal is not in the required format for the eventual review by the Ohio Department of Higher Education (though an earlier draft was). I have, on previous occasions, shared this format with you. I mention this merely to inform you that, after Senate approval, the proposal will require re-formatting prior to statewide review.

Please consider the subcommittee's comments and submit a revised proposal with detailed responses to their concerns. As always, I am available for any questions or clarifications.

Following the successful review by the subcommittee, I will submit the proposal to the Graduate Council for their review followed by the Committee on Academic Affairs. The proposal will continue through the university approval process to the University Senate and the Board of Trustees. Additionally, following approval by the University Senate, I will submit the proposal to the Ohio Dept. of Higher Education (formerly the Ohio Board of Regents) for the required statewide review process.

Many thanks,



The Ohio State University

#### **Scott Herness**

Interim Vice Provost for Graduate Studies Interim Dean of the Graduate School

**Graduate School** 

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herness.1@osu.edu

#### Greetings Scott:

Thank you for sharing these comments and suggestions for improving our proposal to establish a PhD in engineering education. My team is working on revisions of individual sections right now, but I wanted to ask you about the formatting comment before we send you our revised proposal. We used the 2015 CCGS guidelines for a full proposal (FP) as our formatting outline (pages 10- 12 of attached CCGS pdf file). Is there a newer set of formatting guidelines that we should follow? Or should we follow the guidelines for the PDP (page 8)?, however in that case, our document will be much longer than the 5 pages required for a PDP. Your advice will be much appreciated.

Best regards,

Ann



#### Assistant Dean for Teaching and Learning, College of Engineering

Professor, Department of Engineering Education

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From: "Herness, Scott" < herness.1@osu.edu>
Date: Saturday, June 10, 2017 at 11:03 AM
To: "Ann D. Christy" < christy.14@osu.edu>

Cc: "Toft, Jill A." < toft.20@osu.edu >, "Herness, Scott" < herness.1@osu.edu >

Subject: GS?CAA Curriculum subcommittee PhD Eng Ed

June 9, 2017

Ann Christy
Professor
Dept. Engineering Education
College of Engineering

# **PhD in Engineering Education**

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degree in Engineering Education. The degree, an 80 credit hour dissertation based doctorate, would be housed in the newly formed Department of Engineering Education in the College of Engineering. The subcommittee found the curriculum and assessment of the core courses to be exceptionally well developed and clearly narrated. However, they request clarification on a number of other points. These comments are provided in effort to strengthen the proposal prior to its subsequent review process including the required statewide review though the Ohio Department of Higher Education.

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Many thanks,

Scott Humes



# THE OHIO STATE UNIVERSITY

#### Scott Herness

Interim Vice Provost for Graduate Studies Interim Dean of the Graduate School

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# Department of Engineering Education



Proposal for the establishment of a doctoral graduate program

# Ph.D. in Engineering Education

Sept. 5, 2017

# Contact: Ann D. Christy, Ph.D., P.E.

Graduate Studies Committee Chair Professor of Engineering Education Professor of Food, Agricultural, and Biological Engineering

christy.14@osu.edu

# Proposal writing team:

Ann D. Christy, Monica F. Cox, David A. Delaine, Richard J. Freuler, Deborah M. Grzybowski, Kathleen A. Harper, Jennifer L. Herman, Teresa A. Johnson, Rachel L. Kajfez, Alan L. Kalish, Krista M. Kecskemety, Sheryl A. Sorby, and Peter F. Rogers



eed.osu.edu

# Proposal for Ph.D. Engineering Education, OSU College of Engineering

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1

### Proposal for Ph.D. Engineering Education, College of Engineering

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5 6 1. Designation of the new degree program, rationale for that designation, definition of the focus of the program, and a brief description of its disciplinary purpose and significance

a. Designation. The Department of Engineering Education within the College of Engineering proposes to establish a Ph.D. in Engineering Education as its terminal degree. The proposed degree program is an entry-level, interdisciplinary research program that combines both disciplines of engineering and education.

11 12 13

b. Rationale. The Department of Engineering Education (EED) has emerged from the former Engineering Education Innovation Center after more than 15 years of effort developing and delivering college-wide undergraduate programs originating from a \$13M 1992-2003 NSF Coalition Grant. The EED was formed to expand 14 The Ohio State University's (OSU's) well-regarded work in engineering education 15 research, building upon already strong scholarship of teaching and learning within 16 our classrooms. The formation of the department in 2015 allowed us to hire 17 tenure-track faculty to further build an engineering education research endeavor. It 18 is this research platform that will develop and support graduate students in our

proposed Ph.D. program.

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**c. Definition of focus.** The overall goals for this proposed Ph.D. program are that the successful engineering education doctoral graduate will be able to:

23 24  Identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs,

25

Design, conduct, and critique research in engineering education,

· Demonstrate, value, and apply engineering expertise,

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Create, teach, and assess courses and curricula in engineering, and

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 Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits.

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d. Description of disciplinary purpose. To meet current and future global needs, OSU is committed to achieving eminence in both research and teaching. Within the College of Engineering, reaching this eminence goal relies upon attracting and retaining a diverse, highly talented pool of engineering educators and researchers; on developing and delivering evidence-based, significant learning experiences to undergraduate and graduate engineering students; recruiting and graduating high quality graduate students, disseminating our work to others in the engineering and engineering education communities; and on launching new professionals in

9/5/2017 - page 1

#### Proposal for PhD in Engineering Education

- possession of strong disciplinary knowledge in engineering and similarly strong
   multidisciplinary general education.
  - e. <u>Description of significance</u>. The following section is organized to specifically address four of the evaluation criteria listed in the Ohio Department of Higher Education's Chancellor's Council on Graduate Studies (CCGS) Guidelines and Procedures for Review and Approval of Graduate Degree Programs (2015, p.8). The bolded subheadings below are derived directly from that document. Other CCGS criteria are specifically addressed in Sections 2, 3, and 8 of this proposal.
    - i. Description of program differences (conceptual and qualitative) from undergraduate engineering education (or related) programs. The program is distinctly different, both conceptually and qualitatively, from the one undergraduate degree program at Ohio Northern University (ONU) in the same discipline due to its focus on research and the application of engineering education theories to a wider breadth of learning settings including higher education, K-12, industry, nonprofits, and government. The program at ONU is unique being the only undergraduate degree in engineering education in the country. Our proposed program is similar to other engineering education graduate programs in that many of the formal programs house first-year engineering curricula and confer graduate degrees in engineering education-related areas. The proposed program is different from those graduate programs in its emphasis on specializations and career goals beyond higher education.
  - ii. Program emphasizes the theoretical basis of Engineering Education expressed in methods of inquiry and ways of knowing. As a disciplinary education field, the theoretical basis for engineering education has much in common with other disciplinary based educational research. Foundations include learning theory, cognitive sciences, and organizational change theory (Froyd and Lohmann, 2014). Other researchers suggest that the three conceptual frameworks of behaviorism, cognitivism, and situativity are commonly used for designing rigorous engineering education research investigations (Newstetter and Svinicki, 2014). Methods of inquiry range from the quantitative methods in which most engineering faculty are well trained, to the qualitative and mixed methods more common in social science and educational research literature. Engineering education, as a discipline, bridges all three of these research approaches (Johri and Olds, 2014). The proposed curriculum allows students to explore these theories and methods in core courses (ENGREDU 6100, 6200, and 7780) with an additional nine hours of research methods (quantitative, qualitative, and advanced / mixed methods) which will be taken in departments across the university.
  - iii. Program emphasizes professional decision making and teaches use of critical analysis in problem solving. The nature of graduate education aligns with such decision making and critical analysis. The proposed engineering education courses will include higher-order thinking and reflective elements including an annual review administered by the graduate studies committee

which will allow students to synthesize content across courses and apply engineering learning mechanisms and approaches to engineering practice.

iv. Program educates students broadly. The program is designed to educate students broadly so that they have an understanding of the major issues and concerns in the engineering education discipline or professional area. Several of the program learning outcomes address this specifically. The curricular map in Appendix 2b identifies where and at what level of proficiency (beginning, intermediate, and advanced) in the curriculum students will engage with major issues in the discipline. The twelve credit hours of coursework within an individual specialization also adds to the breadth of the students' education.

#### 2. Description of proposed curriculum.

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 The proposed degree is a research doctorate which will require a minimum of 80 credits beyond the Bachelor's degree (which may include up to 30 hours of transfer credit beyond the Bachelor's degree) with a program of study approved by the student's advisory committee. The total number of credit hours required is aligned with other Ph.D. programs in OSU's College of Engineering.

This proposed Ph.D. in engineering education requires more coursework (50 credit hours) than dissertation research (30 credit hours). In traditional Ph.D. programs in disciplinary engineering fields (e.g., civil engineering, mechanical engineering), the opposite is usually true. However, our credit hour balance is aligned with other engineering education Ph.D. programs in the U.S. For example, benchmark programs at Purdue University (42 coursework credits and 32 dissertation research credits) and Virginia Tech (48 coursework credits and 30 dissertation research credits) have a similar balance. This difference relative to disciplinary engineering is mainly due to the number of education research focused courses students are required to take in engineering education programs that are not required in traditional Ph.D. programs in engineering. In our program, students will be required to take 12 credits of coursework specifically focused on research methods (three within the department and nine outside of the department).

In conjunction with this proposal to establish a new degree program, the department requests approval of a new Course Catalogue Designation of ENGREDU for all graduate courses offered by the department. As a new degree program in a new department, a new course catalog designation will help distinguish our courses from those of other departments on student transcripts and within the course catalog. This particular name, ENGREDU, is proposed as a good way to avoid confusion with English (abbreviated as ENG in some places), and our own undergraduate general engineering courses (designated ENGR) which serve the entire College of Engineering while still showing the close tie between our unit's undergraduate and graduate course offerings.

Appendix 2 contains curricular details including the program learning outcomes which support the five program goals and descriptions of three specific levels of proficiency (e.g., beginning, intermediate, and advanced, see Appendix 2a) for each learning outcome. This describes what students will be expected to do to demonstrate beginning, intermediate, and advanced levels of proficiency for each outcome. Appendix 2b presents how the levels of

1 2 3 4 5 6	proficiency for each of the program learning outcomes are mapped onto the required courses and other program elements. The department gratefully acknowledges the wisdom, guidance, and facilitation provided by the University Center for the Advancement of Teaching in developing this curriculum, and thanks Drs. Alan L. Kalish and Teresa A. Johnson for working with the proposal writing team as a learning community through all aspects of curriculum design and assessment planning.
7	A summary of a typical program includes:
8 9	• Seventeen credits of required core engineering education coursework (Note: syllabi for these core courses are included in Appendix 3):
10 11	<ul> <li>ENGREDU 6100: Foundations and the Field of Engineering Education (three credits)</li> </ul>
12	o ENGREDU 6200: Learning Theory, Pedagogy, and Assessment (three credits)
13 14 15	<ul> <li>ENGREDU 7189.01: Engineering Education Practicum I (two credits, must be taken in the same term as the start of a significant two-semester teaching experience)</li> </ul>
16 17 18	<ul> <li>ENGREDU 7189.02: Engineering Education Practicum II (one credit, must be taken in the same term as the second semester of a significant two-semester teaching experience)</li> </ul>
19	<ul> <li>ENGREDU 7780: Engineering Education Research Methods (three credits)</li> </ul>
20 21 22 23	<ul> <li>ENGREDU 7881: Seminar in Engineering Education (one credit each semester with a requirement of two total to count toward the degree with expectation that students will participate each semester of enrollment unless there are schedule conflicts)</li> </ul>
24 25	<ul> <li>ENGREDU 7900: Professional Development in Engineering Education (three credits)</li> </ul>
26	• Nine credits in research methods through courses that support the student's research
27 28	<ul> <li>Three credits of quantitative research methods that includes an emphasis on statistics, including but not limited to the following existing OSU courses:</li> </ul>
29	<ul> <li>STAT 5510: Statistical Foundations of Survey Research</li> </ul>
30	<ul> <li>STAT 6410: Design and Analysis of Experiments</li> </ul>
31	<ul> <li>ESQREM 6641: Introduction to Educational Statistics</li> </ul>
32	<ul> <li>ESQREM 6661: Introduction to Educational Measurement</li> </ul>
33	AEE 8860: Research Design
34 35	<ul> <li>Three credits of qualitative research methods, including but not limited to the following existing OSU courses:</li> </ul>
36	<ul> <li>ESHESA 7256: Qualitative Research in Higher Educational Settings</li> </ul>

1	<ul> <li>EDUTL 8001: Discourse Analysis and Educational Research I</li> </ul>
2	<ul> <li>EDUTL 8002: Discourse Analysis and Educational Research II</li> </ul>
3 4	<ul> <li>ESQRE 8280: Qualitative Research in Education: Paradigms, Theories, and Exemplars</li> </ul>
5 6	<ul> <li>Three credits of advanced / mixed research methods, including but not limited to the following existing OSU courses:</li> </ul>
7	<ul> <li>ESQREM 7635: Advanced Research Methods</li> </ul>
8	<ul> <li>EDUTL 7749 Concept Inventories in STEM Education</li> </ul>
9	• ESQRE 8290: Qualitative Research in Education: Methods and Analysis
10 11	<ul> <li>EDUTL 8751: Survey and Critical Analysis of Research in STEM Education</li> </ul>
12 13	<ul> <li>Twelve credits of specialization elective coursework through approved courses that support the student's research focus and future career goals to include:</li> </ul>
14	o Three credits minimum within the Department of Engineering Education
15	o Three credits minimum outside the Department of Engineering Education
16 17 18 19 20 21 22 23	<ul> <li>A coherent course of study in the student's chosen area of specialization. Each faculty advisor will work with their students to together define the specialization focus for each student's coursework, based on student needs and faculty interests. Further categorization will be developed among the emergent individual specializations. It is not intended that any specializations will appear on the student transcript unless the student specifically chooses to draw upon existing OSU programs that are already noted on transcripts. Some examples (many of which are transcriptable) include:</li> </ul>
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	<ul> <li>Adult education / Business human resource development</li> <li>African American and African studies (transcriptable OSU graduate minor)</li> <li>Applied developmental science in education (transcriptable OSU interdisciplinary specialization)</li> <li>College and university teaching (transcriptable OSU interdisciplinary specialization)</li> <li>Disability studies (transcriptable OSU interdisciplinary specialization)</li> <li>Engineering technical communications</li> <li>Humanitarian engineering</li> <li>Inter-professional studies (transcriptable OSU interdisciplinary specialization)</li> <li>Latino/a studies (transcriptable OSU graduate minor)</li> <li>Nonprofit studies (transcriptable OSU graduate minor)</li> <li>Public policy and management (transcriptable OSU graduate minor)</li> <li>Sexuality studies (transcriptable OSU interdisciplinary specialization)</li> </ul>
40	Statistics and statistical data analysis (transcriptable OSU graduate minor)

#### Proposal for PhD in Engineering Education

- Survey research (transcriptable OSU interdisciplinary specialization)
- Women's, gender, and sexuality studies (transcriptable OSU graduate minor)
- Twelve credits in traditional engineering coursework at the 5000 level or higher\*
- Thirty credits of dissertation research (ENGREDU 8999 or other approved 8999 course)
  - \* Ph.D. candidates with an undergraduate degree in non-engineering STEM fields (e.g., math, physics or chemistry) are generally required to take two to five undergraduate courses in a selected traditional engineering discipline, including a significant engineering design experience, to adequately prepare them for graduate level courses at the 5000 or higher level. Students must receive approval for these courses from a potential faculty advisor. Not all of this course work can count towards the PhD degree, and this constraint will be made transparent to students who are in this situation.

Alternatively, students may demonstrate their engineering proficiency, and thus their eligibility to enroll in graduate-level engineering coursework, through successful completion of the Fundamentals of Engineering (FE) examination (NCEES, 2017) and demonstrated completion of a significant engineering design experience. In the United States, engineers are licensed at the state level by professional licensing boards. Professional Engineering (P.E.) licensure candidates must meet a combination of requirements in education, experience, and exams. The first of the two major national exams, usually taken within six months of graduation from an accredited undergraduate program, is the Fundamentals of Engineering (FE) examination (NCEES, 2017). A few states will allow candidates with undergraduate degrees in non-engineering STEM fields to sit for these exams, if they can demonstrate appropriate on-the-job engineering experience.

All students in the Ph.D. in engineering education program will complete three exams: qualifying exam, candidacy exam, and final defense. The qualifying exam will be administered by the graduate committee and is detailed below. The candidacy exam and the final defense will be administered by the advisor and the student's dissertation committee in accordance with graduate school policies.

The qualifying exam will be completed by students once they complete these three of the required core engineering education courses: ENGREDU 6100, 6200, and 7780. Qualifying exams will be administered twice a year, once in January and once in August. Students will have two weeks to answer and submit an electronic response to three questions, one based on each course. The graduate committee will be responsible for developing and assessing the responses. Students may receive a high pass, pass, or fail for each response. Students will have two attempts to receive at least a pass on each question. Students only have to retake questions they fail in their first attempt. If after their second attempt, a student does not received at least a pass on all three questions, they will be dismissed from the program.

Appendix 2c presents a typical course of study on a semester-by-semester basis for an admitted student who already has earned a Bachelor's degree in an engineering discipline

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- and for one who enters having already earned a Master's degree in an engineering
- discipline. A student advising sheet (Appendix 2d) will be completed during conversations
- 3 between the student and faculty advisor to map out an individualized curriculum that serves
- 4 the student's aspirations and equips them to perform their chosen engineering education
- 5 dissertation research while meeting all program requirements. The advising sheet serves as
- an agenda for a student's plan of study while enrolled in the Ph.D. program, listing core
- 7 requirements, elective courses, research methods and practicum courses, and details about
- 8 the candidacy exam and dissertation research.
- 9 Students with non-STEM undergraduate degrees are advised to take courses equivalent to
- Ohio State's core undergraduate engineering program before applying for admission to the
  - graduate program. For additional information, students will be directed to consult with the
- 12 Graduate Studies Chair.

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- 13 How curriculum develops competence in Engineering Education. The program goals
- and learning outcomes (Appendix 2a) describe what this department's faculty considers
- competence in engineering education. The curricular map (Appendix 2b) indicates the
- 16 levels of proficiency in each of the learning outcomes that students are expected to achieve
- and where evaluations of proficiency will occur. Assessment of these learning outcomes
- within course assignments and during students' annual reviews will provide ongoing
- feedback on students' developing competence in engineering education. Appendix 4
- 20 presents the proposed assessment plan as entered in OSU's online institution-wide
- 21 assessment tracking tool, TracDat.
- 22 Plans for professional accreditation including core courses. Professional engineering
- accreditation (ABET, 2017) is typically tied to the undergraduate degree, not any
- subsequent graduate degree. However, an external review of courses will be conducted by
- 25 professionals in the engineering education community via a departmental advisory board.
- 26 3. Description of required culminating degree, or integrated learning, experience.
- The required culminating experience of this Ph.D. program is a doctoral dissertation in an
- 28 individual area of engineering education designed by the student and his/her advisor and
- 29 graduate advisory committee. Students, in collaboration with their advisor and
- 30 committee, design and complete a research project or series of projects that leads to the
- writing and successful defense of the dissertation.
- 32 Expected topics for dissertation research range from diversity and inclusion in the
- and engineering classroom and professional engineering workforce to pedagogies and
- 34 assessment methods to improve engineering education in the university environment.
- 35 Departmental faculty currently are conducting and collaborating on research in the
- following areas as listed on the webpage <eed.osu.edu>:
  - Boundary Spanning with Engineering Education and Community Engagement Delaine
  - Development and Validation of Assessments for Industry-Valued Professional and Technical Learning Outcomes in Engineering Education - Rogers
  - Development of Empathy within student participants of Community Engagement Delaine
- Engineering Education for Students with Visual Impairments (EEVI) Project Grzybowski
  - Engineering is Elementary Ohio Kajfez
    - Grading Training of Technical Writing Assignments in 1st-Year Engineering Kecskemety

- Implementing an Open-Ended Game Software Design Project in First-Year Engineering -Kecskemety
- International design projects linking study abroad and capstone courses Christy
- More than recruitment and outreach: Diversity and inclusion in engineering education curricula and classrooms - Kuzawa
- Professional development for undergraduate engineering students Christy
- Service learning and real-world client-centered student design projects Christy
- smART: ART Integrated Formal and Informal STEAM Education Grzybowski
- Student Perspectives on Researcher Identity and Transformed Epistemologies (SPRITE) -Kajfez
- Writing as knowing: Creative knowing through multiple messaging modes in an engineering technical communications course – Kuzawa

Many of these topics lend themselves well to integration with themes in specialization elective coursework. It is anticipated that this list of research topics will expand as more faculty join the department and current faculty grow their expertise. Another indicator of potential research topics in the field of engineering education is presented in Appendix 2e which lists ten years of dissertation titles from the two largest and oldest engineering education programs in the US: Purdue University's School of Engineering Education and Virginia Tech's Department of Engineering Education. While most of this research has occurred within higher education settings, we anticipate that our graduates will be able to conduct research in nonacademic settings as well.

Procedures for dissertation examination follow the guidelines of the Graduate School where final approval of the dissertation entails formal committee review and approval of a written document and successful completion of a final oral examination. Final approval of the written dissertation is required for graduation.

# 4. Administrative arrangements for the proposed program: department and school or college involved.

The engineering education Ph.D. program resides within the Department of Engineering Education which is within the College of Engineering at OSU. The proposed doctoral program will be administered by the department's Graduate Studies Committee whose members include faculty and staff representing different areas within the department. The composition of the committee is designed so that areas of the department graduate curriculum offerings are fairly represented. It also includes at least three faculty members with level-P status, the graduate program coordinator, and one graduate student representative. The chair of the Graduate Studies Committee is appointed by the department chair for a three-year term and also serves as a member of the College's Graduate Program Chairs Committee. The appointments of the faculty and staff members on the Graduate Studies Committee are for three years, and individual appointments are staggered. The student representative will be selected from among the engineering education graduate students for a rotating one-year term.

The Graduate Studies Committee's responsibilities include all graduate curriculum matters related to the graduate courses offered by the department. The Committee will recruit and select prospective graduate students, recommend the award of fellowships and graduate teaching and research assistantships to incoming students, ensure that the graduate Δ curriculum and the program graduate study rules are kept current, administer an annual review process for graduate students in the program, review course assessment reports from program directors, administer the graduate examinations required by the program and the Graduate School, and carry out any other charges related to graduate studies that may be requested by the department chair. 

- 5. Evidence of the need for the new degree program, including opportunities for employment of graduates. Address other similar programs in the state.
- Institutional support for this new degree program. OSU currently offers over 90
   doctoral programs, most recently adding new Ph.D. programs in Italian and Portuguese in
   2012. According to the Graduate School Strategic Plan (Osmer, 2010, p.2-3), their main
   strategies include the following:
  - Increase the national and international visibility of the graduate programs at Ohio State
  - Enhance Ohio State's visibility and reputation in interdisciplinary research
  - Develop a strategic communication plan to convey the importance of graduate education to on-campus, state, and broader audiences
  - The same strategic plan states "Traditionally, knowledge advanced within disciplines, and the curriculum was organized within discipline-based departments. However, we now see knowledge advancing not only within the core of the various disciplines but increasingly on the interface of disciplines and through new combinations of disciplines. Ohio State not only has an opportunity but also has the responsibility to fully engage in a next phase of knowledge generation, one that is more interdisciplinary and more cross-disciplinary than has previously been undertaken." (Osmer, 2010, p. 7-9). This proposed Ph.D. program in engineering education is an excellent example of an emergent cross-discipline area of study, combining the fields of engineering and education.
  - Acknowledging the decentralized nature of graduate education, the strategic plan notes that the Graduate School "does not develop new programs of its own accord. The role of the Graduate School is in working with academic departments in providing data, information and support that will be assistive to the departments as they determine how to expand program opportunities." (Osmer, 2010, p.14). Thus there is no university-level plan for overall development of graduate programs, but rather a plan for facilitating and empowering faculty to develop programs in alignment with their own college and departmental goals.
- Ohio State College of Engineering's strategic objectives (October 2014) include several that are directly related to this proposal:
  - "Build on our strength in experiential learning to establish national leadership in this area

for Ohio State.

- Transform the Engineering Education Innovation Center (EEIC) to a formal administrative unit within the college.
- Partner across the university to bring forward new academic programs, such as...
  integrated business and engineering that prepare graduates for modern professional
  practice."

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Societal demand including intellectual development, advancement of the discipline, and employment opportunities. The field of engineering education has roots in formal research dating back over 100 years (Borrega and Bernhard, 2011; Froyd et al., 2012). Over the past twenty years, the field has seen accelerated growth (Froyd and Lohmann, 2014). Engineering education, like other discipline-specific education fields (Fensham, 2004; Coppola, 2011), grew out of the subject matter discipline, in this case engineering, not education. Various professional structures have been developed to support the new domain including discipline-specific conceptual and theoretical development, research methodologies, academic recognition, high-status research journals (e.g., the *Journal of Engineering Education, Advances in Engineering Education, International Journal of Engineering Education*, and the *European Journal of Engineering Education*), professional associations and conferences, prestigious grant programs, seminal publications, and scholarly outcomes applicable to the practice of engineering education.

Five years before the Department of Engineering Education was formed, its predecessor, the Engineering Education Innovation Center, collaborated with the College of Education and Human Ecology to offer a Ph.D. degree in STEM Education with a specialization in Engineering Education. Now a department, the unit continues to develop additional courses to expand the engineering-specific course offerings for the STEM Ph.D. program. The current STEM doctoral program has graduated 15 students including three engineers. One is currently a post-doctoral researcher, one is a tenure-track Assistant Professor at Embry-Riddle Aeronautical University, and the third just accepted a lecturer position at Penn State Behrend. This new proposed Ph.D. program is solely focused on engineering education, providing a distinct but complementary alternative to the existing STEM education program. 

Employment opportunities for engineering education graduates are growing. Over the past few years, several academic positions within engineering education have been posted and filled. This trend is increasing as more universities consider engineering education-trained hires within traditional technical engineering departments, joint hires between education and engineering departments, and the development of engineering education institutes, centers, schools, and departments. Within the tech industry, several companies have hired Chief Learning Officers. A Chief Learning Officer is the highest-ranking corporate officer in charge of learning management for employees and clients. Successful candidates for these positions are experts in corporate training and instructional design, with degrees in education, engineering, and/or business. Foundations, non-profits, and informal educational institutions are also hiring professionals with an engineering education background.

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1	Some job	postings	listed or	ver the	2016-2017	academic v	vear hiring	cycle includ

- Arizona State University The Polytechnic School of the Ira A. Fulton Schools of Engineering – Engineering Education
- <u>University of Cincinnati</u> –Department of Engineering Education
  - <u>University of Michigan</u> College of Engineering Engineering Education
- North Carolina State University Leadership in Public Science (Natural or Social
   Sciences) position
- Florida International University STEM Transformation Institute
- University of Texas at Austin STEM Education Program Engineering Education
  - University of Georgia College of Engineering Engineering Education
- The College of New Jersey The Department of Technological Studies in the School of
   Engineering Engineering Education
- University of Colorado Boulder ATLAS Institute Creative Technologies and
   Design
  - <u>University of San Diego</u> Shiley-Marcos School of Engineering Engineering Education
  - Rowan University Henry M. Rowan College of Engineering Electrical Engineering
- Many sites function as portals pertinent to job opportunities within the field of engineering education:
- PBWorks Engineering Education Job Postings:
   <a href="http://engineeringeducationlist.pbworks.com/w/page/48108151/Engineering%20Education%20Job%20Postings">http://engineeringeducationlist.pbworks.com/w/page/48108151/Engineering%20Education%20Job%20Postings</a>
- The Chronicle of higher Education: <a href="https://chroniclevitae.com/job\_search/new">https://chroniclevitae.com/job\_search/new</a>
- Higher Ed Jobs: https://www.higheredjobs.com/
  - EDSurge: https://www.edsurge.com/jobs/

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- 28 Scope including local, regional, national, and international need. OSU's Department of
- 29 Engineering Education will contribute to local, regional, national, and international needs
- through research and practice within the field of engineering education. The grand
- 31 challenges of the 21<sup>st</sup> century (NAE, 2008) alongside the emergent needs of the global,
- knowledge economy (Burton-Jones, 2011) require that engineering education be more
- 33 closely aligned with societal needs and more agile in its ability to respond to emerging
- 34 challenges. A "knowledge economy" employs knowledge as the key engine of competitive
- growth, where knowledge is acquired, created, disseminated, and used effectively to
- 36 enhance economic development. Knowledge-enabled economies must be able to constantly

modernize their education systems in line with changes in economic realities. These changes must be both systemic and deep, affecting the nature of teaching and learning. As more economies shift towards knowledge-intensive directions, the demand for professional skills and competencies increases significantly.

The nature of these challenges and the continued pace of technological advancement make it imperative that technical knowledge be supplemented with professional skills to develop an "adaptive engineering leader" who is capable of addressing the multiple challenges of an ever-changing world (GEDC, 2010). The field of engineering education and the Department of Engineering Education will respond to these challenges to develop the engineering education professional required by globalized economies.

Engineering education has established a strong position with academic structures within the United States and beyond. Worldwide, there are thirty-three institutions that specifically offer engineering/STEM education graduate programs (ASEE-SD & CELT, 2017), of which eight are international including locations in Canada, Denmark, Malaysia, Mexico, and Sweden. As the field continues to develop, more opportunities to partner and collaborate both with domestic and international institutions will emerge, providing further ability for national and global impact.

A survey (Appendix 4) was developed to gather input from potential and future students to help establish this as a student-centered engineering education doctoral program and curriculum. Results can help inform program formation and continuous quality improvement, as well as focus recruiting efforts.

Programs available in other institutions. Currently in the State of Ohio, there are no other institutions that offer a Ph.D. in Engineering Education. Worldwide, there exists thirty-three institutions that specifically offer engineering/STEM education graduate programs (ASEE-SD & CELT, 2017). Two Ohio institutions appear on this list -- The Ohio State University and University of Cincinnati -- but neither currently has an engineering education doctoral program. We recently learned that the University of Cincinnati is considering proposing a graduate degree in engineering education in the near future. Although not a graduate program, Ohio Northern University has a new B.S. in Engineering Education program which was described earlier in this document that could provide another potential pathway into OSU's proposed Ph.D. program. As of this writing, OSU's Ph.D. in Engineering Education would be the first in the state.

While Ohio does not have a Ph.D. in Engineering Education, both Purdue University and Virginia Tech offer these degrees and are geographically close to OSU. Their programs are growing and are currently attracting Ohio students since we do not offer such a degree in Ohio. Additionally, the University of Michigan has recently received approval to offer a Ph.D. in the field and is accepting applications.

Nationally, the first department of engineering education was established at Purdue University in 2004, and Virginia Tech followed soon thereafter. A recent unpublished study (Cox, 2016) of these two doctoral programs reports that the majority of graduates from

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both institutions are employed in higher education. From data collected in late 2015, 85%

- 1 of all Purdue and 75% of all Virginia Tech engineering education graduates work in higher education environments. Other employment includes industry (four graduates), nonprofit 2 organizations (three graduates), government (three graduates), and K-12 education (one 3 Δ graduate).
- 5 Outside of engineering education specifically, there are STEM Ph.D. programs in the state including one in the College of Education and Human Ecology at OSU. However, these 6 7 degree programs tend to focus on K-12 education in the science and math fields. The 8 program at OSU has that focus. While some engineering education graduates may work 9 and research in the K-12 space, most have interests that extend well beyond that landscape. 10 While many OSU Department of Engineering Education faculty partner with colleagues in the College of Education and Human Ecology (several of whom have been offered 11 courtesy appointments in the new engineering education department), there exists a need to 12
- 12 create an independent graduate program focused on much broader areas of engineering education. 14
- **Appropriateness of specific locale for the program.** As the land grant institution for the State of Ohio, the Ohio State University is well positioned to support this program so that it can impact Columbus and the entire state. Being situated in central Ohio allows us to more 18 easily reach out to the entire state and also allows us to capitalize on the resources offered in the state capital including the presence of the Ohio Department of Higher Education, the Ohio Department of Education, and the State Board of Registration for Professional Engineers and Surveyors.
- Additionally, as a large research university with an established College of Engineering, 22 OSU is well situated to support this discipline-specific education program. At OSU, there 23 are 14 undergraduate engineering degree programs and 9 graduate engineering programs. 24 In the 2014-2015 academic year, OSU's College of Engineering graduated 1486 25 undergraduate students and 641 graduate students (COE, 2016). This proposed 26 engineering education doctoral program would create a strategic complement to the 27 traditional technical engineering work already being completed in the College. 28
  - **Opportunities for inter-institutional collaboration.** Due to the small nature of engineering education as a discipline, there are many opportunities for inter-institutional collaboration across the nation between the various engineering education departments. Currently many of our faculty are collaborating with other institutions and industry partners on research (See CVs in Appendix 1). There are also many opportunities for collaborations with traditional departments in colleges of engineering in Ohio and beyond.
  - As an example of an inter-intuitional collaboration across the state, OSU established a group called Ohio Research for Engineering Education (OREE). This group met monthly via teleconference to discuss items related to engineering education research. During its last iteration, OSU, Ohio Northern, University of Cincinnati, Youngstown State, and Cleveland State were represented in the group. We believe that OREE will be a place for researchers across the state to come together to develop inter-institutional collaborations on a variety of topics related to engineering education that will help the field and our proposed Ph.D. program.

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### 6. Prospective enrollment.

It is expected that the majority of students entering into the proposed Ph.D. program will have a Bachelor's degree in an engineering discipline. Some may enter with a Master's degree in engineering. Having entered the Ph.D. in engineering education program with an engineering skillset already in place, these students will be able to succeed in the program while gaining an in-depth understanding of the educational aspects of engineering education. Additionally, Ph.D. candidates with an undergraduate degree in a science, technology, engineering, and mathematics (STEM) or other non-engineering field are expected to apply to the program. Additional engineering coursework will be required for students entering with non-engineering undergraduate degrees.

An interesting subset of students will be those with an undergraduate degree in engineering education, currently available at only a few institutions, including one located in Ohio (Ohio Northern University). These students will have already experienced engineering education as a field but with a K-12 focus. Ohio Northern's B.S. in engineering education program is accredited under Accreditation Board for Engineering and Technology's (ABET) general engineering criteria (ABET, 2017) and students are licensed to teach high school math.

We plan to attract Ph.D. students to support our growing research programs with the short-term goal of at least three Ph.D. student advisees per tenure-track faculty. These students will be supported fiscally on sponsored research grants and by shifting some of our department's 22 existing graduate teaching assistant (GTA) lines from students pursuing other engineering graduate degrees to engineering education students. There exists growing demand for graduates of doctoral engineering education programs. The job market for engineering education graduates includes universities, colleges, community colleges, and technical colleges (both in tenure-track and clinical faculty appointments), corporate training organizations, and high schools challenged with incorporating STEM initiatives and engineering design into core science standards. Approximately 75 students have obtained formal degrees in engineering education across the United States through 2015. Numerous others have obtained engineering education-related degrees in Colleges such as Engineering, Education, and Public Policy.

a. Potential enrollment. The proposed Ph.D. program plans to attract 10-20 highly talented prospective students each academic year, plus another 20-30 graduate interdisciplinary specialization (i.e., cross-college graduate minor) students. Through identification of undergraduate pipelines in areas such as engineering, sciences, and STEM education as well as working professionals who want to shift their career focus (e.g., industry engineers, high school science teachers), we will create opportunities to engage these students while simultaneously being responsive and timely to all incoming inquiries. Travel and prospective student engagement is also planned at additional events like the Big Ten+ Graduate Engineering Expoheld annually at Purdue University.

To meet prospective students where they are and to increase the exposure of the Department of Engineering Education's graduate program and its faculty to a broader audience, messaging will be tailored via increased social media presence (Barnes and Jacobson, 2013). Being proactive through outreach and interaction in

real time can be facilitated by technology (e.g., webinars and teleconferences) which has been proven integral to reaching audiences who might not live in the vicinity of the university (Breihan, 2007). Additionally, online information sessions where frequently asked questions can be asked and answered will be implemented with resulting FAQs posted on the departmental website. Funding is integral to recruitment, and the department is committed to identifying funding early, while continuing communication to the applicants about the status of their applications, the program, and new opportunities for engagement.

b. Ability to maintain the critical mass of students. The Department of Engineering Education is responsible for courses enrolling over 3500 undergraduate engineering students at Ohio State. For 2016-2017, the department hired 22 graduate and 168 undergraduate teaching assistants to support this large teaching program. This provides a rich setting for engaging in engineering education research and the means to fund graduate students who are interested in advancing the field by transforming research into classroom practice. The department is adding tenure-track faculty with an aggressive research agenda that attracts graduate and undergraduate students to assist in funded engineering education research activities. Finally, departmental faculty teach a course on the professional practice of teaching to approximately 20-30 students each year from across the college. All of these current efforts are producing a source of students, many of whom are interested in teaching and engineering education. As a result, we have created a fertile recruiting ground for Ph.D. candidates from our own student numbers, while developing a program that attracts emerging engineering education researchers and practitioners nationally and internationally.

# 7. Special efforts to enroll and retain underrepresented groups in the given discipline. The department plans to diversify our source of Ph.D. candidates and, while our research

The department plans to diversity our source of Ph.D. candidates and, while our research projects may well attract students from diverse backgrounds outside of Ohio State, promotional activities are planned to recruit beyond OSU and internationally. Recruiting is performed by participation at major engineering education events where faculty and staff serve as speakers, moderators, and program directors (e.g., the annual meeting of the American Society for Engineering Education (ASEE)). Direct promotion includes advertisements in major journals and directories, direct mailings, and booths at major conferences. Members of the faculty will draw upon their professional networks to recruit students directly and indirectly online and face-to-face. Faculty members in the related areas of study from other colleges (such as EHE T&L) will also contribute to student recruitment for engineering education as a subset within STEM education. This includes both the national and international level. Finally, the department will host prospective students at an annual reception day at our institution. This recruiting event will include personal contact with faculty and presentations on current research activities and available resources.

Responding to college strategies, the Department of Engineering Education will place significant priority and resources to recruit women and underrepresented minority students to the proposed Ph.D. program. Centralized and coordinated outreach will intentionally

target messaging to welcome these underserved groups (Tsui, 2009). The College of Engineering recruits on behalf of all engineering disciplines by attending graduate school and exhibitor fairs at diversity conferences such as NSBE (National Society for Black Engineers), SHPE (Society for Hispanic Professional Engineers), SWE (Society of Women in Engineering), and AISES (American Indian Science and Engineering Society).

A lack of financial funding to support underrepresented minority students is known to be a major barrier to the recruitment of this population (Quarterman, 2008). To aid in this effort, OSU's College of Engineering currently has several different fellowship opportunities available to underrepresented students across all engineering departments (e.g., College of Engineering Graduate Fellowships, Discovery Scholars Fellowship), plus multiple University-wide fellowships for which our students are also eligible. These are great tools to help recruit talented individuals and are offered in addition to Graduate Teaching Associateships, Graduate Research Associateships and Graduate Administrative Associateships. In addition, the Department of Engineering Education will connect students to national fellowship opportunities such as the Graduate Education for Minority Fellowships.

The Department of Engineering Education is establishing its own strategic approach to enrolling and retaining Ph.D. students and, given the competitive climate for enrolling underrepresented students, will make full-funding offers (stipend, tuition, and fees and 85% health insurance subsidy) to students admitted early in the admission cycle. We will also maintain consistent contact with our admitted students and bring them to campus to meet with us on one or more occasions. As part of our retention efforts, our enrolled students will participate in the College of Engineering's "graduate student survival skills workshop" designed to help students transition to and be successful in graduate school. The workshop is offered a few days prior to the start of their first semester and includes content on what to expect in graduate school and how to be successful, how to communicate with advisors, and how to find resources within the college and on campus. Studies have shown mentoring programs to be particularly successful in supporting the retention and persistence of underrepresented minorities and females (Olson, 1988; Chesler and Chesler, 2002) although all students benefit from this support. Thus, we will provide mentors for our students during the first semester of study and encourage interaction throughout the program.

One of the program's required core courses focuses on career exploration and professional development (ENGREDU 7900). Students have the opportunity to participate in additional professional development workshops and attend professionally-led seminars to expose students to a broad range of potential careers. We will provide students with a mentoring plan and encourage them to complete an Individual Development Plan (IDP). All our students will have the opportunity to travel to conferences to present their research and will be required to teach at least two semesters. The goal is to keep students connected to our program throughout the admission/yield process by building communities to create a sense of belonging and by providing support for their personal and professional career development. Throughout their doctoral studies, each student will participate in an annual

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#### Proposal for PhD in Engineering Education

review that will provide them with the opportunity to give and receive feedback that will aid their career planning. It is anticipated that this will benefit all of our graduate students, but it will especially assist in the retention and success of our students from underrepresented populations. At the time of graduation, we will provide students with exit surveys to gauge feedback about their experiences and gather employment data. Beyond graduation, we will continue to engage our graduates and invite them to participate in recruiting and mentoring of future students.

# a. Institution and departmental profiles of total enrollment and graduate student enrollment of underrepresented groups within the discipline

Ohio State's College of Engineering publishes annual enrollment data. Figure 1 summarizes those data for engineering graduates for the period of 2011-2015 including demographic information. These data are for all engineering graduate students at OSU, not engineering education students. More closely aligned to the proposed program is the Ph.D. degree in STEM Education with a specialization in Engineering Education offered by the OSU College of Education and Human Ecology in collaboration with the Department of Engineering Education. The engineering education specialization was established in 2010 and has produced three graduates so far. Two of the three are from underrepresented populations.

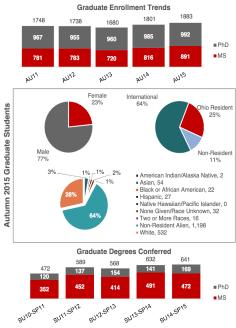


Figure 1. Engineering graduate enrollment trends (OSU College of Engineering, 2016)

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### Comparison of underrepresented groups degree recipients from the department and university at all levels compared to national norms

Based on annual data collected by the American Society for Engineering Education, 24% of master's students and 22% of doctoral candidates in U.S. colleges of engineering are women. OSU's College of Engineering is very close to national norms with women comprising 23% of the engineering graduate student numbers. Increasing the numbers of faculty role models is also important. Recently, US News and World Report stated that nationally only 15.2% of tenuretrack engineering faculty are women, and only 2.5% and 3.9% of tenure-track engineering faculty are African-American or Hispanic, respectively (Morella, 2016). In comparison, at Ohio State, women hold 20% of the tenure-track engineering faculty positions, and underrepresented minorities hold 5% of tenuretrack positions (OSU College of Engineering, 2016). Across OSU, women make up 39 % of all faculty which includes tenure track, clinical and research but does not include instructors and lecturers (OSU The Women's Place, 2017). Faculty in the Department of Engineering Education are more diverse than elsewhere in the college and university, with 57% of the tenure-track faculty being women and 29% being underrepresented minorities. Among the unit's clinical faculty, 40% are women.

Availability and adequacy of the faculty and facilities available for the new degree program.

# a. Competency, experience and number of faculty

The Department of Engineering Education (EED) is currently supported by 38 faculty (tenure-track, clinical, and lecturers) and five staff. The faculty have the appropriate background, training, and experience to guide graduate students in doctoral research as evidenced in their CVs (Appendix 1). The research infrastructure at OSU is well positioned to support engineering education faculty in their grant activity. The department recently hired a new staff member for the position of graduate coordinator.

A summary of our current and projected faculty is shown in Table 1 along with their Graduate Faculty "P" status. The EED has achieved OSU's minimum required departmental faculty of ten (we have eleven). We currently have seven faculty who hold "P" status in other departments or are eligible to do so once we have a degree program, and we have approval from the College of Engineering to hire two more tenure-track faculty in the next two years. Additionally, there are three STEM faculty with "P" status from the College of Education and Human Ecology (EHE) who have been offered courtesy appointments and who will be active in advising or co-advising our students. Our Associate Dean, a professor in Chemical and Biomolecular Engineering, also has a courtesy appointment with "P" status. Thus in total, we have eleven faculty with "P" status affiliated with the proposed doctoral program with two more to be added over the next two years.

### Table 1. Current Faculty Status

Faculty Name	Title	P-Status	Comments	
Monica Cox	Professor and Chair	Eligible		
Ann Christy	Professor and Asst. Dean	Yes		
Jeffrey Froyd	Professor	Eligible		
David Delaine	Assist. Professor	Eligible		
Rachel Kajfez	Assist. Professor	Eligible		
Emily Drinkenberg	Assist. Professor	Eligible		
David Tomasko	Professor and Assoc. Dean	Yes	Courtesy Appointment	
Paul Post	Asst. Professor (EHE)	Yes	Courtesy Appointment	
Karen Irving	Assoc. Professor (EHE)	Yes	Courtesy Appointment	
Lin Ding	Assoc. Professor (EHE)	Yes	Courtesy Appointment	
New Tenure Track	Assist. Professor	Eligible	Planned Hire 2018	
New Tenure Track	Professor	Eligible	Planned Hire 2019	
Rick Freuler	Professor of Practice	No	M-status	
Peter Rogers	Professor of Practice	No	M-status	
Deb Grzybowski	Assoc. Professor of Practice	Yes		
Krista Kecskemety	Asst. Professor of Practice	No	M-status eligible	
Denver Tang	Asst. Professor of Practice	No	M-status eligible	

# b. Support and commitment of the proposing institution's central administration

The institution's central administration indicated their support and commitment by the University Senate's vote on October 29, 2015, to approve a proposal recommending establishment of a new Department of Engineering Education at OSU. This recommendation was acted upon by the University Board of Trustees on November 6, 2015 when they voted to establish the new department. That proposal was solely about transitioning the unit from a college center to a department, (i.e., a change in administrative structure), but it did indicate general plans to develop a Ph.D. program to grow the field of engineering education and to support the tenure-track faculty who are now calling the new department their TIU home.

### Adequacy of available resources committed for the initiation of the program.

The Fiscal Year 2016 budget for the Engineering Education Innovation Center (EEIC), which transitioned into the Department of Engineering Education on November 6, 2015, was \$5.8M. In 2015-2016, the department supported 32 graduate teaching assistants (GTAs), one graduate research associate (GRA), 125 undergraduate teaching assistants (UTAs), and two undergraduate researchers. The ratio of GRAs to GTAs is expected to increase with the inauguration of this new Ph.D. program, along with the number of fellowship recipients. For 2016-2017 the Department of Engineering Education employed 44 Faculty and Staff, 22 GTAs, 2 GRAs, and 168 UTAs.

The College of Engineering has committed to the recruitment and hiring of faculty who will ensure the success of our Ph.D. program. By the end of the 2017-18 hiring cycle, nine faculty in the EED will have or be eligible for "P" status. We are forming partnerships that will include joint and courtesy appointments also, thereby increasing the likelihood that co-advising will occur with faculty across different OSU Colleges.

# d. Adequacy of available resources committed for the initiation of the program.

OSU has excellent computational facilities and support. Wireless internet connectivity is available in every building on campus. The College of Engineering has a wide selection of engineering-specific hardware and networked software which is made available to students at more than a dozen locations across the college. Included in Hitchcock Hall, our departmental home, is a student computer laboratory which is part of the College of Engineering's computer network and is available 24 hours per day to undergraduate and graduate engineering students. The laboratory has color and black-and-white printers, scanning capability, and large format printers, plotters, and scanners. A student lab-room monitor and/or a service desk area are available for troubleshooting and consultation during posted hours.

University Libraries at Ohio State have a combined collection of nearly 5.8 million volumes and annually receive approximately 35,000 serial titles. University Libraries consists of the Thompson (Main) Library and fourteen other specialized libraries. There are collections in agriculture, art, life and physical sciences, economics, education, engineering, human ecology, journalism, music, psychology, pharmacy, social work, and more. Each library provides access to the Libraries' online catalog/circulation system, as well as to indexes, abstracts, and bibliographies pertinent to its subject area(s). Librarians familiar with the subject areas and expert in associated research techniques are available for consultation research. University Libraries is also a member of OhioLINK, a statewide library and information network linking the major academic and community college libraries in Ohio with the State Library.

#### Proposal for PhD in Engineering Education

Serving the education research community, the William Oxley Thompson (Main) Library houses the university's collections in humanities and social sciences including education. Built in 1913 and most recently renovated in 2009, it is an 11-story building with 306,000 square feet of space. Serving the engineering research community, the 18th Avenue Library houses the university's collections in Engineering, Architecture, Astronomy, Chemistry, Physics, Mathematics, Music, and Dance. Built in 1993, it is a five-story building with just under 70,000 square feet and 24-hour access (with a valid OSU ID). The University Library developed and hosts an online research guide specifically related to engineering education <a href="http://guides.osu.edu/engineering education">http://guides.osu.edu/engineering education</a>>. This resource for faculty, staff, and students includes links to databases, journals, eBooks, and dissertations in the field of engineering education.

Classrooms and instructional spaces serve as laboratories for some research specializations within engineering education. Departmental faculty currently teach more than 8,000 credit hours per semester including providing instruction to all firstyear engineering students and a wide range of other undergraduate students in courses not offered by other units in the College of Engineering. Engineering Education faculty also teach graduate courses in areas such as research methodology, engineering education foundations, and effective college teaching. All of the department's undergraduate courses are taught in dedicated and specially-constructed instructional spaces. Most instructional spaces have a computer workstation for each student. All instructional spaces have video display systems and audio enhancement. Most assigned instructional rooms are in Hitchcock Hall and have a furniture layout conducive to student team collaboration, with teams of four students being typical. Student tables are, in general, of working height (39 inches) with some furniture having accommodation for students with disabilities. There are two larger multipurpose rooms having in-room shelving which allows for readily available curriculum-related items. Two other classrooms in Caldwell Lab and one classroom in Dreese Lab are dedicated to offering the department's engineering technical communication courses.

Technical engineering laboratories include space in Hitchcock Hall and Smith Laboratory that support our experiential programs and courses including the First-Year Engineering Program, Engineering Technical Communications, Integrated Business and Engineering, and Multidisciplinary Capstone. This space includes student work space, storage space, creative instructional space, and prototyping equipment. Prototyping areas feature hand tools and clear areas for construction and assembly, floor and bench mounted machines (e.g., drill presses, milling machines, grinders and sanders), and rapid prototyping 3-D printers. Recently acquired space and reallocated space has created a designated research space that is used exclusively to house research faculty, staff, and students.

The majority of faculty offices are in Hitchcock Hall. The Department of Engineering Education has a dedicated conference room and several other rooms available in Hitchcock Hall and Smith Lab to schedule general meetings, research interviews, and professional presentations. It also has dedicated space to support researchers including graduate teaching and research associates (GTAs and GRAs), postdoctoral

professionals, visiting scholars, and other research support staff. More space is needed given the faculty hiring plan and the increased numbers of undergraduate and graduate students served by the department.

# 9. Need for additional facilities and staff and the plans to meet.

Two additional tenure-track faculty are needed, and OSU's College of Engineering has agreed to authorize these faculty hires over the next two years. In August 2017, the department hired a graduate program coordinator, under an A&P staff position. Facilities are adequate, but further expansion of the program will require additional space and/or creative changes in usage of existing departmental space.

# 10. Projected additional costs associated with the program and evidence of institutional commitment and capacity to meet these costs.

Projected additional costs specifically associated with the proposed graduate program include faculty salaries and start-up packages, recruiting faculty and Ph.D. students, graduate student funding (stipends, tuition, and fees including student health insurance), and professional development/conference attendance funds for graduate students on a competitive basis. These additional costs are supported by a combination of university and college fellowships, research grants, teaching assistantships, new faculty start-up allocations, development funds, and other departmental funding. The department's large teaching commitment, serving more than 3500 undergraduates annually, means that there is an assured pool of more than twenty graduate teaching assistantships (GTAs) available each year, although not all of these GTA positions will always be filled by engineering education doctoral students. This provides a solid basis for supporting the proposed doctoral program in engineering education at the Ohio State University.

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Literature	( iter

- ABET. (2017). Criteria for Accrediting Engineering Programs, Baltimore, MD, 2017-2018, available at: http://www.abet.org/accreditation/accreditation-criteria/criteria-for-accrediting-engineering-programs-2017-2018/
- Agostinho, F., & Ortega, E. (2012). Integrated food, energy and environmental services
   production as an alternative for small rural properties in Brazil. *Energy*, *37*(1), 103-114.
- 8 American Society for Engineering Education Student Division (ASEE-SD) and the Center for 9 Engineering Learning and Teaching (CELT). (2017). Engineering Education Community 10 Resource Wiki. Available at: http://engineeringeducationlist.pbworks.com/
- Barnes, N. G., & Jacobsen, S. (2013). Adoption of social media by fast-growing companies:
   Innovation among the Inc. 500. *Journal of Marketing Development and Competitiveness*,
   7(1), 11.
- Borrego, M., & Bernhard, J. (2011). The emergence of engineering education research as an
   internationally connected field of inquiry. *Journal of Engineering Education*, 100(1), 14 47.
- Breihan, A. W. (2007). Attracting and retaining a diverse student body: Proven, practical strategies. *Journal of Public Affairs Education*, 87-101.
- Burton-Jones, A., & Spender, J. C. (Eds.). (2011). The Oxford handbook of human capital.
   Oxford University Press.
- Celsi, R. L., & Olson, J. C. (1988). The role of involvement in attention and comprehension
   processes. *Journal of consumer research*, 15(2), 210-224.
- Chesler, N. C., & Chesler, M. A. (2002). Gender-informed mentoring strategies for women
   engineering scholars: On establishing a caring community. *Journal of Engineering Education*, *91*(1), 49-55.
- Coppola, B. P. (2011). Making your case: Ten questions for departments and individuals
   building an argument for work in discipline-centered education. *International Journal for the Scholarship of Teaching and Learning*, 5(1), 5.
- Cox, M.F. (2016). Ohio State University Department of Engineering Education (EED) Report.
   Internal report dated February 3, 2016.
- Fensham, P. J. (2004). *Defining an identity: The evolution of science education as a field of research* (Vol. 20). Springer Science & Business Media.
- Froyd, J. E., & Lohmann, J.R. (2014). Chronological and Ontological Development of
   Engineering Education as a Field of Scientific Inquiry. Appears in A. Johri & B.M. Olds
   (Eds.), Cambridge Handbook of Engineering Education Research. (pp. 3-15) New York,
   NY: Cambridge University Press.
- Froyd, J. E., Wankat, P. C., & Smith, K. A. (2012). Five major shifts in 100 years of
   engineering education. *Proceedings of the IEEE*, 100 (Special Centennial Issue), 1344 1360.

1

37

38 39

40

#### Proposal for PhD in Engineering Education

Global Engineering Deans Council (GEDC). (2010). Event Summary from 2010 Global

2 3	Engineering Deans Council Conference, available at: http://www.gedcouncil.org/events/2010-global-engineering-deans-council-conference-1
4 5	Johri, A. & Olds, B.M., eds. (2014). <i>Cambridge Handbook of Engineering Education Research</i> . New York, NY: Cambridge University Press. 786 p.
6 7 8 9 10	Morella, M. (2016). Graduate Engineering Programs Beef Up Efforts for Women, Minorities. excerpted from <i>US News and World Report Best Graduate Schools 2017</i> , available at: https://www.usnews.com/education/best-graduate-schools/top-engineering-schools/articles/2016-04-01/graduate-engineering-programs-beef-up-efforts-for-womenminorities
11 12 13	National Academy of Engineering (NAE). (2008). <i>Grand Challenges for Engineering</i> . National Academies Press. Available at: http://www.engineeringchallenges.org/File.aspx?id=11574&v=ba24e2ed
14 15	National Council of Examiners for Engineering and Surveying. (2017). <i>NCEES engineering exam registration</i> . available at: https://ncees.org/engineering/
16 17 18 19	Newstetter, Wendy C., and Marilla D. Svinicki. (2014) Learning theories for engineering education practice. Appears in A. Johri & B.M. Olds (Eds.), <i>Cambridge Handbook of Engineering Education Research</i> . (pp. 29-46) New York, NY: Cambridge University Press.
20 21 22 23 24	Ohio Department of Higher Education's Chancellor's Council on Graduate Studies (CCGS). (2015). <i>Guidelines and Procedures for Review and Approval of Graduate Degree Programs</i> available at: https://www.ohiohighered.org/files/uploads/racgs/documents/CCGS_Guidelines_Final_Rev10212015_mm.pdf
25 26	Olson, C. (1988) Recruiting and Retaining Minority Graduate Students: A Systems Perspective. <i>Journal of Negro Education</i> , 57(1), 31-42.
27 28	Osmer, P. S. (2010). The Graduate School Strategic Plan. Available at: https://oaa.osu.edu/assets/files/strategicPlanning/The Graduate School.pdf
29 30	OSU College of Engineering. (2016). <i>Annual Statistical Report</i> , available at: https://engineering.osu.edu/about/report
31 32 33	OSU College of Engineering. (2016). Engineering: Enrollment & Degrees At A Glance, available at: https://engineering.osu.edu/sites/engineering.osu.edu/files/uploads/2016_ed_glance.pdf
34 35	OSU The Women's Place. (2017). <i>Status Report on Women at Ohio State</i> , available at: http://womensplace.osu.edu/assets/files/Status_Report_2017.pdf
36	Quarterman, J. (2008). An assessment of barriers and strategies for recruitment and retention of

a diverse graduate student population. *College Student Journal*, 42(4), 947-968. Tsui, L. (2009). Recruiting females into male dominated programs: Effective strategies and

approaches. Journal of College Admission, 8, 13.

## **Appendices**

- 1. Faculty Curriculum Vitae
- 2. Curriculum
  - a. Program goals, learning outcomes, and levels of proficiency
  - b. Curricular map
  - c. Example semester-by-semester plans
  - d. Student advising sheet
  - e. Examples of Engineering Education Doctoral Dissertation Titles from Purdue University and Virginia Tech (2006-2015)
- 3. Course Syllabi
- 4. Assessment Plan (TracDat)
- 5. Needs Survey
- 6. Letter of Support
- 7. Fiscal Impact Statement (template, data to be added later)

### Monica F. Cox, Ph.D.

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#### Education

Ph.D. Leadership and Policy Studies, 2005. Vanderbilt University, Nashville, TN M.S. Industrial Engineering, 2000. University of Alabama, Tuscaloosa, AL B.S. Mathematics, 1998. Spelman College, Atlanta, GA

#### **Employment History**

Professor & Inaugural Department Chair, Department of Engineering Education, The Ohio State University, Columbus, OH (2015-present)

Associate Professor of Engineering Education, Purdue University, West Lafayette, IN (2005-2015)

Chief Executive Officer, STEMinent LLC (2013-present)

Inaugural Director, Engineering Leadership Minor, Purdue University, West Lafayette, IN (2012-present)

Interim Statewide Director, Louis Stokes Alliance for Minority Participation, Purdue University, West Lafayette, IN (2011-2014).

#### **Publications (Summary)**

- · Peer-reviewed journal articles: 31
- Proceedings and abstracts: 68
- Chapters in edited books: 6
- Bulletins, tech reports, and fact sheets: 3

# Courses Taught in Engineering Education (Taught at Purdue University, arrived at OSU in January 2016)

- 1. Seminar in Engineering Education (ENE 695A)
- 2. Introduction to Engineering and Purdue (ENGR 103)
- 3. Instruction, Mentorship, and Leadership (ENGR 404)
- 4. Problem Solving & Design for Diverse Learners (ENE 695C)
- 5. Engineering Problem Solving and Computer Tools (ENGR 126)
- 6. Leadership, Policy, & Change in STEM Education (ENE 695I)
- 7. Effective Teaching of Engineering: Linking Theory and Practice (ENE 595G)
- 8. Transforming Ideas to Innovation I (ENGR 19500)
- 9. Harnessing Engineering Expertise (ENE 695)
- 10. Planning for Engineering Leadership Development (ENE 195)
- 11. E-Portfolio: Experience Engineering Leadership (ENE 195)

#### **Graduate Student Advising**

• PhD students advised: 10 graduated (Engineering Education Ph.D.s, Purdue University)

#### Selected Recent Publications (Engineering Education Journal Articles)

- Bairaktorova, D., Cox, M.F., & Evangelou, D. (2012). Leadership Training in Science, Technology, Engineering, and Mathematics (STEM) Education in Bulgaria. *European Journal of Engineering Education*, 36, 6, 585-594.
- Bernstein, W.Z., Ramanujam, D., Zhao, F., Ramani, K., & Cox, M.F. (2012). Teaching Design for Environment through Critique within a Project Based Product Design Course. *International Journal of Engineering Education*, 28, 4, 1-12.
- 3. Cox, M.F., Ahn, B., Cekic, O., & Zhu, J. (2012). Engineering Professionals' Expectations of Undergraduate Engineering Students. *Leadership and Management*, 12, 2, 60-70.
- 4. Mendoza-Diaz, N. & Cox, M.F. (2012). An Overview of the Literature: Research in P-12 Engineering Education. *Advances in Engineering Education*, 3, 2, 37 pages.
- Cox, M.F., Mendoza-Diaz, N., & Adams, S.G. (2013). Elementary Educators' Perceptions of Design, Engineering, and Technology: An Analysis by Ethnicity. *Journal of STEM Education*, 14, 3, 13.
- Zhu, J., Li, Y., Cox, M.F., London, J., Hahn, J., and Ahn, B. (2013). Validation of a Survey for Graduate Teaching Assistants: Translating Theory to Practice. *Journal of Engineering Education*, 102, 3, 426-443.
- Cox, M.F., Zhu, J., Zephirin, T., Sambamurthy, N., Ahn, B., London, J., Cekic, O., & Torres, A. (2013). Curriculum Vitae Analyses of Engineering Ph.D.s Working in Academy and Industry. *International Journal of Engineering Education*, 29, 5, 1205-1221
- 8. Ahn, B., Cox, M.F., London, J., Zhu, J. & Cekic, O. (2014). Creation of an Instrument to Measure Leadership, Change, and Synthesis Attributes of Engineering Undergraduates. *Journal of Engineering Education*, 103, 1, 115-136.
- 9. Besterfield, M.B., Cox, M.F., Borrego, M.J., Beddoes, K., & Zhu, J. (2014). Changing Engineering Education: Views of U.S. Faculty, Chairs, and Deans. *Journal of Engineering Education*, 103, 2, 193-219.
- London, J., Cox, M.F., Ahn, B., Branch S., Torres-Ayala, A., Zephirin, T., & Zhu, J. (2014). Motivations for Pursuing an Engineering Ph.D. and Perceptions of its Added Value. *International Journal of Doctoral Studies*, 9, 205-227.
- Ahn, B., Cox, M.F., Zephirin, T., Haller, Y, Groll, E., Taylor, K., Davenport Sypher, B., & Adams, S. (2014). Development of Professional Workshop to Cultivate Professional Skills among Engineering Managers: Lessons Learned from a Professional Development Workshop. *International Journal of Engineering Education*, 30, 1621-1635.
- Berdanier, C. G., & Cox, M. F. (2015). Research and Assessment of Learning Environments through Photoelicitation: Graduate Student Perceptions of Electronics Manufacturing in India. Advances in Engineering Education, 4(4), n4.
- 13. Bairaktarova, D., Cox, M.F., & Srivastava, M. (2015). A Project-Based Approach to Professional Skills Training in an Undergraduate Engineering Curriculum. *International Journal of Engineering Education*, 31, 1, 425-433.
- Berdanier, C. G., & Cox, M. F. (2015). Research and Assessment of Learning Environments through Photoelicitation: Graduate Student Perceptions of Electronics Manufacturing in India. Advances in Engineering Education, 4(4), n4.
- Berdanier, C.G.P, Tally, A., Branch, S.E., Ahn, B., & Cox, M.F. (2016). A strategic blueprint for the alignment of doctoral competencies with disciplinary expectations, *International Journal of Engineering Education*, 32, 4, 759-1773.

#### Honors and Awards

Purdue University College of Engineering Faculty Award of Excellent for Leadership (2014)

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- Purdue University Entrepreneurial Leadership Academy Fellow (2013)
- Purdue Black Graduate Student Association (BGSA) Engagement Award Recipient (2013)
- Presidential Early Career Award for Scientists and Engineers (PECASE) Recipient (2008)
- Diverse Issues in Higher Education Emerging Scholar (2008)
- National Science Foundation Early Faculty CAREER Award Recipient (2007)
- National Academies of Engineering/Center for the Advancement of Scholarship in Engineering Education New Faculty Fellow, Frontiers in Education Conference (2006) Purdue University Teaching for Tomorrow Award Recipient (2006-2007)
- · Vanderbilt University Department of Leadership, Policy, and Organizations Graduate Student
- Representative (2002-03)\*
- VaNTH Engineering Research Center Student Leadership Council Chairperson (2001-2005)
- Vanderbilt University Posse Foundation/Dean's Graduate Fellow (2000-05) University of Alabama Graduate Council Fellow (1999-2000)
- University of Alabama National Alumni Association Fellow (1998-99)
- NASA/Graduate Degrees for Minorities in Engineering and Science (GEM) Scholar (1998-
- Spelman College NASA/Women in Science and Engineering (WISE) Scholar (1994-98)

#### Inter-Institutional Collaborations

- Cornell University (Co-PI)
- Howard University (Advisory Board Member)
- Indiana University (Co-PI)
- Indiana University-Purdue University Indianapolis (Co-PI)
- Ivy Tech Community College (co-PI)
- Norfolk State University (Co-PI)
- Purdue University (Co-Author, PI, Co-PI)
- Rose-Hulman Institute of Technology (Co-Author)
- Shanghai Jiao Tong University (Co-Author)
- Universidad de Las Americas Puebla (Mexico) (Visiting Professor)
- University of Pittsburgh (Co-Author)
- Vanderbilt University (PI)
- Virginia Polytechnic Institute and State University (Engineering Education Advisory Board Member)

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#### Education

Ph.D. Environmental Systems Engineering, 1991. Clemson University, Clemson, SC. M.S. Biomedical Engineering, 1985. The Ohio State University, Columbus, OH. B.S. Agricultural Engineering, 1983. The Ohio State University, Columbus, OH.

#### **Employment History**

Professor, Department of Engineering Education, The Ohio State University, Columbus, OH (2016-present).

Professor, Department of Food, Agricultural, and Biological Engineering (FABENG), The Ohio State University,
Columbus, OH (1996-present).

Senior Associate Engineer / Board of Directors member, Bennett and Williams Environmental Consultants Inc., Westerville, OH (1999-present part-time).

Interim Director, Engineering Education Innovation Center, College of Engineering, The Ohio State University, Columbus, OH (2014-2015)

Provost Faculty Fellow, Office of Academic Affairs, The Ohio State University, Columbus, OH (2009-2012)

Interim Associate Dean for Undergraduate Education and Student Services, College of Engineering, The Ohio State University, Columbus, OH (2008-2009).

Senior Engineer, Killam Associates Consulting Engineers, Millburn, NJ (1992-1995 full time, 1996-1999 part-time).

#### **Professional Registration and Certifications**

- Registered Professional Engineer, State of Ohio (1996 -present)
- ABET Engineering Accreditation Commission (ABET-EAC) program evaluator (2009 present)
- American Council for Construction Education (ACCE) program evaluator (2008-2013)

#### Courses Taught at the Ohio State University (OSU), Columbus, Ohio

- 1. Fundamentals of Engineering II for Honors (ENGR 1282.01H)
- 2. Introduction to Food, Agricultural, and Biological Engineering (FABENG 225)
- 3. Modeling and Design of Biological Systems (FABENG 625)
- 4. Environmental Controls for Agricultural Structures (FABENG 645, 5820)
- 5. Design of Waste Management Systems (FABENG 650)
- 6. Thermodynamics (FABENG 2120, 3120)
- 7. Biomass Conversion to Bioenergy (FABENG 5540)
- Science and Engineering for Life On Earth and in Space (FABENG 694 Group studies for high school science teachers)
- Professional Development (FABENG 695, 3140)
- Sustainable Housing for Informal Settlements in South Africa (an OSU Study Abroad program, FABENG 697.01)
- 11. Capstone Design (FABENG 723, 724, 725)
- 12. Departmental / Graduate Seminar (FABENG 850)
- 13. College Teaching in Engineering (FABENG 7220)

#### Graduate student advising:

- PhD students advised: 5 graduated (4 FABENG, 1 Env. Sci.)
- Masters students advised: 11 graduated (9 FABENG, 1 Env. Sci., 1 Historic Preservation), 2 current (FABENG)

#### **Publications (Summary):**

- Peer-reviewed journal articles: 33
- Proceedings and abstracts: 87 (34 peer-reviewed)
- Chapters in edited books: 2
- Bulletins, tech reports, and fact sheets: 9
- Editor-reviewed journal articles: 8

#### **Selected recent publications (Engineering education related):**

- Lima, M., and Christy, A.D. 2017. Service learning in biological and agricultural engineering: Journeys in community engagement. ASEE Annual Conference, American Society for Engineering Education. Paper No. AC 2017-20133. 7 p. (Peer reviewed)
- Christy, A.D., and Fasina, O. 2017. Student ePortfolios for undergraduate professional development: A comparison of two programs. ASEE Annual Conference, American Society for Engineering Education. Paper No. AC 2017-20035. 7 p.
- Christy, A. D. 2014. Students' selection of topics for a professional development course. 2014 ASEE Annual Conference, American Society for Engineering Education. ASEE Paper # AC 2014-10643. 5 p.
- Christy, Ann D. 2013. "Student portfolios for assessing ABET a-k outcomes." Proceedings of the 2013 ASEE North Central Section Conference. 12 p.
- Chen, Q., A.D. Christy, M.E. Owens, D. Bortz, W. Greene, and B. King. 2012. Two-plus-two construction management programs and articulation agreements. *International Journal of Construction Education and Research*. 8(1): 4-25.
- Christy, A.D. 2011. Engaging Students to Prepare them for the Engineering Profession and Reflect upon their Undergraduate Career. ASABE Paper No.11-11605. St. Joseph, Mich: ASABE. 8p.
- Owens, Margaret, Qian Chen, Ann Christy, Wesley Greene, and Ben King. 2010. Articulation between 2-Year and 4-Year Construction Management Programs. ASC International Proceedings of the 46th Annual Conference, Associated Schools of Construction. Boston, MA. April 7-10, 2010. 8 p.
- Ward, Andy, Ann Christy, Robert Gustafson, Jessica D'Ambrosio, and Kurt Paterson. 2009. Globalizing Engineering Education: Lessons Learned from Africa and USA Partnerships. 2009 ASEE Annual Conference, American Society for Engineering Education. June 15-17, 2009. Paper # AC 2009-2207. 16 p.
- Abadie, A., A.D. Christy, J. Jones, J. Wang, and M. Lima. 2009. Longitudinal survey of female faculty in biological and agricultural engineering. *Transactions of the ASABE* 52(4): 1397-1405.
- Christy, Ann, Andy Ward, Jeff Hughes, Simon Lorentz, and Bethany Corcoran. 2008. An Experiential and Service Learning Capstone design Initiative in South Africa. 2008 ASEE Global Colloquium, American Society for Engineering Education. CapeTown, South Africa, October 2008. Paper # GC 2008-124. 11 p.
- Christy, A.D., and M. Lima. 2007. Teaching creativity and multidisciplinary approaches to engineering problem-solving. *International Journal of Engineering Education* 23(4): 636-644.
- 12. Ward, Andy D., Kerry Hughes Zwierschke, Carol Moody, and Ann D. Christy. 2007. Developing Sustainable Solutions for Impoverished Communities in South Africa: A Student Centered and Service Learning Capstone Design Experience. American Society of Agricultural and Biological Engineers Annual Meeting. ASABE Paper 07-8018. 8 p.
- 13. Christy, Ann D., Margaret E. Owens, and Mary J. Faure. 2007. Student Portfolios, Business Communications, Engineering Poetry Contests, and Grading Multiple Drafts of Technical Writing Documents. American Society of Agricultural and Biological Engineers Annual Meeting. ASABE Paper 07-8001. 7 p.
- 14. Graf, Julie A., and Ann D. Christy. 2006. Assessing perceptions of education: A case for increased interdisciplinarity. American Society of Agricultural and Biological Engineers Annual Meeting. ASABE Paper 06-8001. 16 p.
- 15. Christy, A.D., Karen M. Mancl, and Michael Rowan. 2005. Co-teaching an engineering class with an agricultural technology management class on the topic of waste and wastewater treatment. American Society of Agricultural Engineers Annual Meeting. ASAE Paper 05-8009. 5 p.
- Christy, A.D., and J. Graf. 2005. Departmental to inter-collegiate engineering poetry contests. 2005 ASEE Annual Conference, American Society for Engineering Education. June 2005. 9 p. (Peer reviewed).
- Christy, A.D. 2004. Renaissance learning and poetry contests in biological and agricultural engineering. 2004 ASEE Annual Conference, American Society for Engineering Education. June 2004. 6 p.
- 18. Hughes, K.L., and A.D. Christy. 2002. Biological engineering education and the biology knowledge

- explosion: Lessons from biology educators. *American Society of Agricultural Engineers Annual Meeting*. ASAE Paper 02-7030. 8 p.
- 19. Owens, Margaret E., James C. Papritan, and Ann D. Christy. 2002. The Student Portfolio as an Assessment Tool in Agricultural and Construction Health and Safety Courses. *Meeting of the National Institute for Farm Safety, Inc.*, 14 p.
- Hughes, K.L., D.A. Farver, A.D. Christy, and M. Lima. 2001. A review of currently available texts for biological engineering courses. 2001 ASEE Annual Conference Proceedings, American Society for Engineering Education. 6 p.
- Christy, A.D., and J. Weatherington-Rice. 2000. Field workshop on subsurface fractures in glacial till and their environmental implications: An educational experience for professionals and decision makers. *Ohio Journal of Science* 100(3/4): 94-99.
- 22. Christy, A.D., M. Lima, and A.D. Ward. 2000. Implementing real-world problem solving projects in a team setting. *National Association of Colleges and Teachers of Agriculture Journal* 44(3): 72-77.
- Cauble, S., A.D. Christy, M. Lima. 2000. Toward plugging the leaky pipeline: Biological and agricultural
  engineering female faculty in the United States and Canada. *Journal of Women and Minorities in Science*and Engineering 6(3): 229-249.
- Christy, A.D., M. Lima, E.C. Alocilja, J.C. Papritan, M.E. Owens, and M.H. Klingman. 2000. The use of student portfolios to enhance learning, industrial ties, and accreditation in biological engineering education. *American Society of Agricultural Engineers Annual Meeting*. ASAE Paper 00-8014. 11 p.
- Lima, M., A.D. Christy, M. Owens, and J.C. Papritan. 1999. The use of student portfolios to enhance learning and encourage industrial ties in undergraduate education. NACTA Journal 43(3): 51-54.
- Christy, A.D., and M. Lima. 1999. Biological engineering student design projects with real clients. 1999
   ASEE Annual Conference Proceedings, American Society for Engineering Education. 7p.
- Cauble, S., A.D. Christy, and M. Lima. 1999. A survey of biological and agricultural engineering female faculty in North America. 1999 ASEE Annual Conference Proceedings, American Society for Engineering Education. 11p.
- Christy, A.D. and M. Lima. 1998. The use of student portfolios in engineering instruction. *Journal of Engineering Education* 87(2): 143-148.

#### **Honors and Awards**

- Massey-Ferguson Educational Gold Medal Award, American Society of Agr. and Biological Engineers (2017)
- The Ohio State University President and Provost's Award for Distinguished Faculty Service (2017)
- Department of Engineering Education Outstanding Service to the Department Award (2017)
- U.S. Department of Agriculture National Award for Excellence in College and University Teaching (2016)
- Recipient of the Ohio State University Board of Trustees "Resolution of appreciation for the leadership vital in developing strategies and a structure to implement the transition of The Ohio State University from the quarter to semester system," Resolution No. 2012-100 (2012)
- Star Student Supporter Award, College of Food, Agr., and Environmental Sciences' Student Council (2012)
- The Ohio State University Alumni Award for Distinguished Teaching (2007)
- OARDC William E. Krauss Award for Excellence in Graduate Research, Faculty Advisor Award (2007)
- U.S. Department of Agriculture North Central Regional Award for Excellence in College and University Teaching (2005)
- Boyer Award for Excellence in Teaching Innovation, OSU College of Engineering (2005)
- Charles E. MacQuigg Student Award for Outstanding Teaching, OSU College of Engineering (2004)
- Teaching Award of Merit, Ohio State Chapter of Gamma Sigma Delta (2003)

#### Inter-institutional collaborations

- Columbus State Community College (co-author)
- Louisiana State University (co-author, co-PI)
- North Carolina State University (co-PI)
- University of Kentucky (co-author)
   University of Illinois (co-PI)
- University of fillinois (co-P1)
- University of Nebraska -Lincoln (co-PI)

#### **Industry collaborations**

Bennett and Williams Environmental Consultants Inc. (co-author, Board of Directors member)

## Jeffrey E. Froyd, Ph.D.

Professor of Engineering Education 244 Hitchcock Hall, 2070 Neil Avenue The Ohio State University, Columbus, OH 43210 Telephone: 614-247-8953, Fax: 614-247-6255, E-mail: froyd@tamu.edu

#### Education

Ph.D. Electrical Engineering, 1979. University of Minnesota – Twin Cities, Minneapolis, MN. M.S. Electrical Engineering, 1975. University of Minnesota – Twin Cities, Minneapolis, MN. B.S. Mathematics, 1974. Rose-Hulman Institute of Technology, Terre Haute, IN.

#### **Employment History**

Professor, Department of Engineering Education, The Ohio State University, Columbus, OH (2017- present) Research Professor, Engineering Academic and Student Affairs, College of Engineering, Texas A&M University, College Station, TX (2011-2017).

Director of Faculty Climate and Development, Office of the Dean of Faculties and Associate Provost, Texas A&M University, College Station, TX (2007-2011).

Research Professor, Center for Teaching Excellence, Texas A&M University, College Station, TX (2004-2007).

Project Director, Foundation Coalition, Texas A&M University, College Station, TX (2001-2004)

Visiting Professor, Department of Electrical and Computer Engineering, College of Engineering, Texas A&M University, College Station, TX (1999-2001)

Professor, Department of Electrical and Computer Engineering, Rose-Hulman Institute of Technology, Terre Haute, IN (1990-1999).

Senior Systems Engineer, Applied Computing Devices, Terre Haute, IN (1992-1993, sabbatical).

Associate Professor, Department of Electrical and Computer Engineering, Rose-Hulman Institute of Technology, Terre Haute, IN (1984-1990).

Assistant Professor, Department of Electrical and Computer Engineering, Rose-Hulman Institute of Technology, Terre Haute, IN (1981-1984).

#### **Professional Registration and Certifications**

ABET Engineering Accreditation Commission (ABET-EAC) program evaluator (1999 – present)

#### Courses Taught at Rose-Hulman Institute of Technology, Terre Haute, IN

- 1. Integrated, First-year Curriculum in Science, Engineering, and Mathematics (SEM 101, SEM 102, SEM 103, 12 credit hours each quarter)
- 2. Design of Feedback Systems (EE 471)
- 3. Control Systems I (EE 572)
- 4. Control Systems II (EE 573)
- 5. Electrical Circuits I (EE 211)
- 6. Electrical Circuits II (EE 212)
- VLSI Design I (EE 581)
   VLSI Design II (EE 582)
   VLSI Design III (EE 583)

- 10. Engineering Design I (EE 460)
- 11. Engineering Design II (EE461)

#### **Publications (Summary):**

- Peer-reviewed journal articles: 22
- Proceedings and abstracts: 67 (60 peer-reviewed)
- Book: 1
- Chapters in edited books: 1

#### Selected recent publications (Engineering education related):

- Stanford, C., Cole, R. Cole, Froyd, J. E., Henderson, C., Friedrichsen, D., & Khatri, R. (2017). Analysis of propagation plans in NSF-funded education development projects, *Journal of Science Education and Technology*, doi: 10.1007/s10956-017-9689-x
- Taylor, L. L., Beck, M. I., Lahey, J. I., & Froyd, J. E. (2017). Reducing Inequality in Higher Education: The Link between Faculty Empowerment and Climate and Retention, *Innovative Higher Education*, doi: 10.1007/s10755-017-9391-1
- Khatri, R., Henderson, C., Cole, R. S., Froyd, J. E., Friedrichsen, D., & Stanford, C. (2017). Characteristics of well-propagated teaching innovations in undergraduate STEM. *International Journal of STEM Education*, 4(2), 1-10. doi:10.1186/s40594-017-0056-5
- Stanford, C., Cole, R. S., Froyd, J. E., Friedrichsen, D., Khatri, R., & Henderson, C. (2016). Supporting sustained adoption of education innovations: The Designing for Sustained Adoption Assessment Instrument. *International Journal of STEM Education*, 3(1), 1-13. doi:10.1186/s40594-016-0034-3
- Khatri, R., Henderson, C., Cole, R., Froyd, J. E., Friedrichsen, D., & Stanford, C. (2016). Designing for sustained adoption: A model of developing educational innovations for successful propagation. *Physical Review Physics Education Research*, 12(1), 010112-1-22. doi:10.1103/PhysRevPhysEducRes.12.010112
- Borrego, M., Foster, M. J., & Froyd, J. E. (2015). What is the state of the art of systematic review in engineering education? *Journal of Engineering Education*, 104(2), 212-242. 10.1002/jee.20069
- Borrego, M., Foster, M. J., & Froyd, J. E. (2014). Systematic literature reviews in engineering education and other developing interdisciplinary fields. *Journal of Engineering Education*, 103(1), 45-76. doi: 10.1002/jee.20038
- 8. Atilhan, M., ElJack, F., Alfadala, H., Froyd, J. E., El-Halwagi, M., & Mahalec, V. (2014). Inquiry guided learning in a chemical engineering core curriculum: General instructional approach and specific application to the fluid mechanics case. *International Journal of Engineering Education*, 30(6), 1450-1460. Retrieved from <a href="http://www.ijee.ie/contents/c300614A.html">http://www.ijee.ie/contents/c300614A.html</a>
- Borrego, Maura, Cutler, Stephanie, Prince, Michael J., Henderson, Charles, & Froyd, Jeffrey E. (2013).
   Fidelity of implementation of research-based instructional strategies (RBIS) in engineering science courses.
   *Journal of Engineering Education*, 102(3), 394-425. doi: 10.1002/jee.20020
- Borrego, Maura, Froyd, Jeffrey E., Henderson, Charles, Cutler, Stephanie, & Prince, Michael J. (2013).
   Influence of engineering instructors' teaching and learning beliefs on pedagogies in engineering science courses. *International Journal of Engineering Education*, 29(6), 1-16.
- Prince, Michael J., Borrego, Maura, Cutler, Stephanie, Henderson, Charles, & Froyd, Jeffrey E. (2013). Use of research-based instructional strategies in core chemical engineering courses. *Chemical Engineering Education*, 47(1), 27-37.
- Froyd, Jeffrey E., Borrego, Maura, Cutler, Stephanie, Henderson, Charles, & Prince, Michael J. (2013).
   Estimates of use of research-based instructional strategies in core electrical or computer engineering courses.
   IEEE Transactions on Education, 56(3). doi: 10.1109/TE.2013.2244602
- Froyd, Jeffrey E., Wankat, Phillip C., & Smith, Karl A. (2012). Five major shifts in 100 years of engineering education. *Proceedings of the IEEE*, 100(13), 1344-1360. doi: 10.1109/JPROC.2012.2190167
- Froyd, J. E., Hurtado, L. D., Lagoudas, M. Z., Nite, S., Hobson, M., Hodge, J. & Monroe, J. (2012) *Increasing Access to Engineering*. Paper presented at the Frontiers in Education Conference. doi: 10.1109/FIE.2012.6462265
- Cutler, Stephanie, Borrego, Maura, Henderson, Charles, Prince, Michael J., & Froyd, Jeffrey E. (2012). A
  comparison of electrical, computer, and chemical engineering facultys' progressions through the innovationdecision process. Paper presented at the Frontiers in Education Conference, Seattle, WA. doi:
  10.1109/FIE.2012.6462405
- Shryock, Kristi J., Srinivasa, Arun R., & Froyd, Jeffrey E. (2011). Developing instruments to assess first-year calculus and physics mechanics skills needed for a sophomore statics and dynamics course. Paper presented at the Frontiers in Education Conference, Rapid City, SD, USA. doi: 10.1109/FIE.2011.6142722
- Shryock, K. J., Srinivasa, A. R., & Froyd, J. E. (2011). Alignment of preparation via first-year physics mechanics and calculus courses with expectations for a sophomore statics and dynamics course. Paper presented at the ASEE Annual Conference & Exposition. Retrieved November 14, 2011 from https://peer.asee.org/17434
- Shryock, K. J., Srinivasa, A. R., & Froyd, J. E. (2011). Assessing first-year calculus knowledge and skills needed for a sophomore statics and dynamics course. Paper presented at the ASEE Annual Conference & Exposition. Retrieved November 14, 2011 from https://peer.asee.org/17519
- 19. Shryock, K. J., Srinivasa, A. R., & Froyd, J. E. (2011). Assessing first-year physics mechanics knowledge and

- skills needed for a sophomore statics and dynamics course. Paper presented at the ASEE Annual Conference & Exposition. Retrieved November 14, 2011 from https://peer.asee.org/17520
- Shryock, K. J., Srinivasa, A. R., & Froyd, J. E. (2011). Preparing engineering students to take a calculus course: An engineering-oriented approach. Paper presented at the ASEE Annual Conference & Exposition. Retrieved November 14, 2011 from <a href="https://peer.asee.org/18704">https://peer.asee.org/18704</a>
- Ulseth, R. R., Froyd, J. E., Litzinger, T. A., Ewert, D., & Johnson, B. M. (2011). A new model of project based learning. Paper presented at the ASEE Annual Conference & Exposition. Retrieved November 14, 2011 from https://peer.asee.org/17360
- Litzinger, T. A., Zappe, S. E., Borrego, M. J., Froyd, J. E., Newstetter, W., Tonso, K. L., et al. (2011). Writing
  effective evaluation and dissemination/diffusion plans. Paper presented at the ASEE Annual Conference &
  Exposition. Retrieved November 14, 2011 from <a href="https://peer.asee.org/18994">https://peer.asee.org/18994</a>
- Hodge, J. Q., Lagoudas, M. Z., Harris, A. M., Froyd, J. E., Hobson, M., & Pope, J. A. (2011). Influencing the
  academic success of undergraduate first-year engineering students through a living learning community. Paper
  presented at the ASEE Annual Conference & Exposition. Retrieved November 14, 2011 from
  <a href="https://peer.asee.org/18160">https://peer.asee.org/18160</a>
- Froyd, J. E., Schwartz, C. J., & Rajagopal, K. R. (2011). Comprehensive course redesign: Introduction to the mechanics of materials. Paper presented at the ASEE Annual Conference & Exposition. Retrieved November 14, 2011, from https://peer.asee.org/17638
- 25. Borrego, Maura, Froyd, Jeffrey E., & Hall, T. Simin. (2010). Diffusion of engineering education innovations: A survey of awareness and adoption rates in U.S. engineering departments. *Journal of Engineering Education*, 99(3), 185-207. doi: 10.1002/j.2168-9830.2010.tb01056.x
- Fowler, D. A., Froyd, J. E., & Layne, J. (2010). Curriculum Redesign: Concurrently Addressing Content Mastery and Development of Cognitive Abilities. Paper presented at the Frontiers in Education Conference. doi: 10.1109/FIE.2010.5673605
- Merton, P., Froyd, J. E., Clark, M. C., & Richardson, J. (2009). A case study of relationships between organizational culture and curricular change in engineering education. *Innovative Higher Education*, 34(4), 219–233. doi: 10.1007/s10755-009-9114-3
- Watson, K., and Froyd, J. (2007). Diversifying the U.S. Engineering Workforce: A New Model, *Journal of Engineering Education*, 96(1), 19–32. doi: 10.1002/j.2168-9830.2007.tb00912.x
- Froyd, J., and Ohland, M. (2005). Integrated Engineering Curricula, Journal of Engineering Education, 94(1), 147–164
- 30. Clark, M.C., Froyd, J., Merton, P., Richardson, J. (2004). The Evolution of Curricular Change Models Within the Foundation Coalition. *Journal of Engineering Education*, 93(1), 37-47
- 31. Fournier-Bonilla, S. D., Watson, K., Malavé, C., and Froyd, J. (2001). Managing Curricula Change in Engineering at Texas A&M University. *International Journal of Engineering Education*, 17(3), 222-235
- Al-Holou, N., Bilgutay, N. M., Corleto, C., Demel, J. T., Felder, R., Frair, K., Froyd, J., Hoit, M., Morgan, J., Wells, D.L. (1999). First-Year Integrated Curricula: Design Alternatives and Examples. *Journal of Engineering Education*, 88(4), 435-448. doi: 10.1002/j.2168-9830.1999.tb00471.x
- 33. Cordes, D., Evans, D.L., Frair, K., and Froyd, J. (1999). The NSF Foundation Coalition: The First Five Years. Journal of Engineering Education, 88(1), 73-77. doi: 10.1002/j.2168-9830.1999.tb00414.x

#### **Honors and Awards**

- 2015 Distinguished Member Award, IEEE Education Society
- 2012 ASEE Fellow
- 2012 IEEE Fellow
- 2011 Benjamin Dasher Award, Best Paper, Frontiers in Education Conference
- 1998 Ten Best Papers Award, Frontiers in Education Conference
- 1997 Hesburgh Award Certificate of Excellent for the Integrated First-year Curriculum in Science, Engineering and Mathematics, Rose-Hulman Institute of Technology
- 1985 Dean's Outstanding Teaching Award, Rose-Hulman Institute of Technology

#### Inter-institutional collaborations

- Western Michigan University, University of Iowa (co-author, co-PI)
- University of Texas at Austin, Clemson University (co-author, co-PI)
- Virginia Polytechnic Institute and State University, Bucknell University (co-author, co-PI)
- University of Alabama, Arizona State University, Texas A&M University Kingsville, University of Wisconsin, Rose-Hulman Institute of Technology (co-author, co-PI)

## DAVID A. DELAINE, Ph.D.

Assistant Professor

Department of Engineering Education
The Ohio State University, 244 Hitchcock Hall, 2070 Neil Ave., Columbus Ohio 43210
E-mail: Delaine.4@osu.edu

#### Education

Ph.D. Electrical Engineering, 2012, Drexel University, Philadelphia, PA B.S. Electrical Engineering, 2005, Northeastern University, Boston, MA

#### **Employment History**

- Vice President for Diversity & Inclusion October 2013 October 2017 International Federation of Engineering Education Societies (IFEES)
- Postdoctoral Fellow Escola Politécnica, Universidade de São Paulo July 2013 March 2016
   Poli-Edu Research Group in Engineering Education

#### **Graduate Student Advising**

 Thesis Committee Member for 2 Ph.D. and 1 Masters Dissertation defense at the Universidade de São Paulo – Escola Politécnica

### **Courses Taught**

- 1. Introduction to Engineering
- 2. Math Practicum Calculus for Engineers
- 3. Linear Algebra

#### **Publications (Summary):**

- Peer-reviewed journal articles: 4
- · Proceedings and abstracts: 22 (17 peer-reviewed)
- Bulletins, tech reports, and fact sheets: 2

## Selected recent publications (Engineering education related):

- D. Delaine, D. Williams, R. Tull, R. Sigamoney. "Global Diversity and Inclusion in Engineering Education: Developing platforms towards increased international collaboration." *International Journal of Engineering Pedagogy*.
- D. Delaine, D. Williams, R. Tull, R. Sigamoney. "Global Diversity in Engineering Education: An Exploratory Analysis." Proceedings of the 2015 World Engineering Education Forum, Florence, Italy, 2015
- D. Delaine, L. Yanaze, et al. "Perfil dos ingressantes em engenharia na escola politécnica da USP, utilizando a FUVEST 2015 como processo de ingress." Proceedings of the XLII Congresso Brasileiro de Educação 2015, September, 2015.
- D. Delaine, J.R. Cardoso, J. Walther. "Qualitative Analysis of Boundary Spanning Implications within Interviews of Engagement Stakeholders." Proceedings of the 122<sup>nd</sup> ASEE Annual Conference and Exposition, Seattle, Washington, June 14 – 17, 2015.
- D. Delaine, J.R. Cardoso, J. Walther. "A Boundary Spanner Intervention for Increasing Community Engagement Outcomes – Phase 1: Framing Case Studies in Context." Proceedings of the World Engineering Education Forum 2014, Dubai, United Arab Emirates.
- D. Delaine, et. al. "Comunidade de especialistas como referência para superar os desafios acadêmicos na criação de um grupo de pesquisas em educação em engenharia." Proceedings of the XLII Congresso Brasileiro de Educação 2014.

- D. Hansberry, D. Delaine, D. McEachron, E. Papazoglou, F. Allen, "Who are our students: A multiassesment approach to categorizing an undergraduate biomedical engineering student population". Proceedings of the 9<sup>th</sup> Annual LACCEI Conference, Medellin, Colombia, August 2011.
- 8. D. McEachron, E. Papazoglou, F. Allen, **D. Delaine**, D. Hansberry, M. Sualp. "Engineering Education in Context: An Evidence Based Evaluation System", ASEE Global Colloquium on Engineering Education, Singapore, Singapore, October 2010.
- J. O'Shea, D. Delaine, "The Rise of Student-to-Student Learning Youth-led Programs Impacting Engineering Education Globally", Proceedings of the IEEE Educon 2011. Amman, Jordan, 04-06 April, 2011.
- J. O'Shea, D. Delaine, J. DeBoer "Developing Leadership Skills Through Student-Led Initiatives: Student Platform for Engineering Education Development", SEFI 2010 Annual Conference
- D. McEachron, F. Allen, G. Papazoglou, D. Delaine, "Engineering Education in Context: An Evidence-Based Intervention System" Proceedings of the 2010 ASEE Annual Conference and Exposition, Louisville, Kentucky, 2010.
- 12. D. Delaine et. Al, "Student involvement as a vehicle for empowerment: a case study of the student platform for engineering education development", European Journal of Engineering Education Special Issue: Best Papers from the SEFI 37<sup>th</sup> annual conference 2009, Vol. 35, Issue 4 2010
- D. Delaine et al. "The Student Platform for Engineering Education Development (SPEED)
   Empowering the Global Engineer" SEFI Annual Conference, Rotterdam, Netherlands, August 2009. Nominated Best Paper Award.
- A. Fox, D. Delaine, A.K. Fontecchio, "Development of Non-Traditional Skills in Graduate Students Through Teaching and Curriculum Design", Proceedings of the 2009 ASEE Annual Conference and Exposition, Austin, Texas, 2009.
- D. Delaine, A. K. Fontecchio, "Social Networking Websites for Increased Success in Minority Science and Engineering Programs", Proceedings of the 2009 ASEE Annual Conference and Exposition, Austin, Texas, 2009.
- 16. D. Delaine, L. Emelle, et al., "Student Run Outreach Programs for Professional Development and Increased Pre- Collegiate Participation", Proceedings of the 7<sup>th</sup> ASEE Global Colloquium on Engineering Education, Cape Town, South Africa, 2008.
- H. J. Shah, D. Delaine, and A. K. Fontecchio, "Plasma Modification of Fluoropolymers for Aligning Liquid Crystals", J. Display Technology Volume 4, Issue 2, June 2008.
- H. J. Shah, D. Delaine, and A. K. Fontecchio, "Liquid Crystal Alignment on Corona Patterned Polymer Films", J. Display Technology, 15(8), 579, 2007.

#### Honors and Awards

- Postdoctoral Fellowship Fundação de amparo à pesquisa do estado de são paulo (FAPESP)
- Fulbright scholar award postdoctoral fellowship awarded fellowship for "assessing the impact of
  one boundary spanner on university-wide stem educational engagement" at the university of São
  Paulo.
- · National Science Foundation Graduate Reasearch Fellow
- National Science Foundation Bridge to the Doctorate Fellow.
- Ralph J. Bunche scholar throughout undergraduate education.

#### **Inter-Institutional Collaborations**

- University of Georgia Collaborative Lounge for Understanding Society and Technology (CLUSTER)
- Poli-Edu Research Group in Engineering Education, Universidade de São Paulo Escola Politécnica
- · The International Federation of Engineering Education Societies
- UNESCO Engineering Programme
- The University of Maryland Baltimore County and the Greater Philadelphia Region Louis Stokes Alliances for Minority Participation

## **Emily Dringenberg, Ph.D.**

Assistant Professor

Department of Engineering Education The Ohio State University, Hitchcock Hall, 2070 Neil Ave., Columbus, Ohio 43210-1057 E-mail: dringenberg.1@osu

#### Education

Ph.D. Engineering Education, 2015. Purdue University, West Lafayette, IN. M.S. Industrial Engineering, 2014. Purdue University, West Lafayette, IN. B.S. Mechanical Engineering, 2008. Kansas State University, Manhattan, KS.

#### **Employment History**

Assistant Professor, Department of Engineering Education, The Ohio State University, Columbus, OH (2017-present).

Teaching Assistant Professor, General Engineering, Kansas State University, Manhattan, KS (2016-2017). Instructor, General Engineering, Kansas State University, Manhattan, KS (2015-2016). NSF Graduate Research Fellow, Engineering Education, Purdue University, West Lafayette, IN (2012-2015) Graduate Professional Assistant, Women in Engineering, Purdue University, West Lafayette, IN (2011-2012) High School Teacher, Engineering and Mathematics, Grady HS, Atlanta, GA (2009-2011)

## Courses Taught at Kansas State University (KSU), Manhattan, KS

- 1. Engineering Orientation (DEN 160)
- 2. Engineering Problem Solving (DEN 161)
- 3. Engineering Decision Making (DEN 301)

#### Graduate student advising:

Masters students advised: 1 graduated (Mechanical Engineering)

#### **Publications (Summary):**

- Peer-reviewed journal articles: 1
- Peer Reviewed proceedings and abstracts: 10
- Chapters in edited books: 1

#### **Publications**

- Fila, N. D., Hess, J. L., Purzer, Ş., & **Dringenberg, E**. (2016). Engineering Students' Utilization of Empathy during a Non-Immersive Conceptual Design Task. *International Journal of Engineering Education*, 32(3B).
- Purzer, Ş., Moore, T. J., Dringenberg, E. (In press). Cognition and engineering: Learning transfer and knowledge building. In Y. J. Dori & D. Baker (Eds.), Cognition, metacognition, and culture in STEM education. Springer.
- Vesper, M., Dringenberg, E. (2016). The Implementation and Preliminary Impact of Intrusive Advising and an Academic Peer-Mentoring Program for Engineering Students. Proceedings of the American Society for Engineering Education Midwest Regional Conference, Manhattan, KS.
- Dringenberg, E., Wertz, R. E. H. (2016). Work in Progress: How Do First-Year Engineering Students Experience Ambiguity in Engineering Design Problems: The Development of a Self-Report Instrument. Proceedings of the American Society for Engineering Education Annual Conference and Exposition, New Orleans, LA.
- Dringenberg, E., Mendoza-Garcia, J. A., Tafur, M., Hsu, M., Fila, N. (2015). Using Phenomenography: What are Key Considerations when Selecting a Specific Research Approach? Proceedings of the American Society for Engineering Education Annual Conference and Exposition, Seattle, WA.
- Chua, M., Dringenberg, E. (2014). Work In Progress: The Quest for the Mythical Phoenix: Attendee Narratives at an Engineering Education Faculty Workshop. Proceedings of the Frontiers in Education Annual Conference, Madrid, Spain.

- Dringenberg, E., Chua, M. (2014). What Can Reflections From an "Innovation in Engineering Education" Workshop Teach Workshop Designers and New Faculty? Proceedings of the American Society for Engineering Education Annual Conference and Exposition, Indianapolis, IN.
- Dringenberg, E. (2014). First Year Students' Understanding of Normal Distributions: A Preliminary Study of Previous Exposure, Self-Efficacy and Content Knowledge. Proceedings of the American Society for Engineering Education IL-IN Regional Conference, Terre Haute, IN.
- Denick, D., Dringenberg, E., Fayyaz, F., Nelson, L., Pitterson, N., Tolbert, D., Yatchmeneff, M., Cardella, M. (2013). STEM Thinking in Informal Environments: Integration and Recommendations for Formal Settings. In Proceedings of the American Society for Engineering Education IL-IN Regional Conference, Angola, IN.
- Dringenberg, E., Wertz, R. E. H., Purzer, Ş., & Strobel, J. (2012). Development of the Science and Engineering Classroom Learning Observation Protocol. In Proceedings of the American Society for Engineering Education Annual Conference and Exposition, San Antonio, TX.
- Dringenberg, E., Wiener, J., Purzer, Ş., Groh, J. (2012). Measuring the impact of engineering outreach on middle school students' perceptions. In Proceedings of the American Society for Engineering Education IL-IN Regional Conference. Valparaiso, IN.
- Mondisa, J., Fila, N., Dringenberg, E., Zephirin, T. (2012). Work in Progress: A Case Study of the Types and Frequencies of Conflict in Engineering Design Dyads. In Proceedings of the Frontiers in Education Annual Conference, Seattle, WA.

#### **Invited Talks**

- Mestrovich Seay, A., Dringenberg, E. (February 8, 2017) Implicit Bias & De-biasing Strategies in Action. Professional development for K-State Research and Extension Agents. Kansas State University. Manhattan, KS.
- **Dringenberg**, E., Baird, C., Tuttle, T. (October 24, 2016) Implicit Bias Panel. Guest panel for Caterpillar Inc. employees. Caterpillar Work Tools. Wamego, KS.
- Dringenberg, E., Betz, A. (June 3, 2016) Growth Mindset: How do your perceptions of intelligence help or hinder the teaching and learning environments that you create? Closing Plenary Session. Big XII Teaching and Learning Conference. Manhattan, KS.
- **Dringenberg, E.** (February, 2016) Introduction to Implicit Bias. Guest lecture for the K-State Office for the Advancement of Women in Science and Engineering. Manhattan, KS.
- **Dringenberg**, E. (October, 2015) Recognizing Patterns in Gender Bias. Women in Engineering seminar at Kansas State University. Manhattan, KS.

#### **Honors and Awards**

- Kansas State University Peer Review of Teaching Fellow, Mentor (2016, 2017)
- ASEE Midwest Section Best Paper (2016)
- K-State Faculty of the Month Nominee (2015)
   National Science Foundation Graduate Research Fellow (2011)
- AmeriCorps Academic Award, Teach For America Service Completion (2011)
- Teach for America Fellow, top 10% of 35,000 applicants nationwide (2009)
- \*Outstanding Senior," selected by KSU Mechanical Engineering Faculty (2008)
- FE (Fundamentals of Engineering) Certification (2008)

Fall 2015

Spring 2012

Spring 2012

Spring 2011

Fall 2009

Fall 2008

Fall 2008

## Deborah M. Grzybowski, Ph.D.

Associate Professor Clinical Department of Engineering Education Department of Chemical and Biomolecular Engineering The Ohio State University, 244 Hitchcock Hall, 2070 Neil Ave., Columbus, Ohio 43210-1057 Telephone: 614-292-1563, Fax: 614-247-6255, E-mail: Grzybowski.3@osu.edu

#### Education

Ph.D. Biomedical Engineering, 2000. The Ohio State University, Columbus, OH. M.S. Chemical Engineering, 1982. The Ohio State University, Columbus, OH. B.S. Chemical Engineering, 1979. The Ohio State University, Columbus, OH.

#### **Employment History**

Associate Professor Clinical, Department of Engineering Education, The Ohio State University, Columbus, OH (2016-present).

Associate Professor Clinical, Department of Chemical and Biomolecular Engineering (CBE), The Ohio State University, Columbus, OH (2012-present).

Scientific Advisor, Executive Board of Directors member, The Ohio Lions Eye Research Foundation, Columbus, OH (2011-present).

Assistant Professor Clinical, Engineering Education Innovation Center, College of Engineering, The Ohio State University, Columbus, OH (2012-2015).

Assistant Professor, The Department of Ophthalmology, The Ohio State University, College of Medicine, Columbus, OH (2003-2012).

Director Ohio Lions Eye Research Facility, The Department of Ophthalmology, The Ohio State University, College of Medicine, Columbus, OH (2003-2012).

Research Scientist, The Department of Ophthalmology, The Ohio State University, College of Medicine, Columbus, OH (2002-2003).

Post-Doctoral Fellow, The Department of Biomedical Engineering, The Ohio State University, College of Engineering, Columbus, OH (2000-2002).

French Fellow, Department of Engineering Graphics, The Ohio State University, College of Engineering, Columbus, OH (1992-1999).

Principal Research Scientist, Battelle Memorial Institute, Columbus, OH (1982-1992).

#### Courses Taught at the Ohio State University (OSU), Columbus, Ohio

- 1. Fundamentals of Engineering II for Honors Robot Option (ENGR 1282.01H)
- 2. Fundamentals of Engineering II for Honors Nanotechnology Option (Course Director) (ENGR 1282.02H)
- Bio-Engineering for students with Visual Impairments I (Developed Course) (EDUTL 5992)
- Fundamentals of Engineering I for Honors (ENGR 1281.01H)
- Bio-Engineering for students with Visual Impairments II (Developed Course) (EDUTL 5992)
- 6. Engineering Fundamental and Laboratory I for Honors (ENGR 191)
- 7. Engineering Fundamental and Laboratory II for Honors (ENGR 192)
- 8. Introduction to Engineering I (ENGR 181)
- Graphics 167 MATLAB (ENGR 167)
- 10. Engineering Fundamental and Laboratory III for Honors Robot Option (ENGR 193, previously ENGR
- 11. Engineering Fundamental and Laboratory III for Honors Nanotechnology Option (ENGR 193A)

#### Graduate student advising:

- PhD students advised: 3 graduated (2 BME, 1 CBE)
- Masters students advised: 2 graduated (2 BME)
- Post-Doctoral students advised: 2
- Medical Student research programs advised: 52
- Ophthalmology Resident student research programs advised: 26
- Undergraduate Research programs advised: 24

#### **Graduate Student Committees:**

- PhD students: 1 graduated (CEGE), 1 current (CEGE)
- Masters students: 2 graduated (CEGE)
- Undergrad Honors Thesis: 1 graduated (BME)

#### **Publications (Summary):**

- · Peer-reviewed journal articles: 19
- Proceedings and abstracts: 115 (115 peer-reviewed)
- Chapters in edited books: 2
- · Bulletins, tech reports, and fact sheets: 2
- Invited speaker at workshops, conferences, and symposiums: 26

#### Selected recent publications (Engineering education related):

- 1. Wild, T., **Grzybowski, D.M.**, Yang, S.J., Upton, J. "Engineering Education for Teachers of Students with Visual Impairment Professional Development Program", J. Visual Impairment & Blindness, in review.
- 2. Dixon, K., **Grzybowski, D.M.**, Le, J.V., Castro, C.E. "Engaging Adolescent Girls in Engineering by Integrating Visual Art into DNA Origami Content", Journal of Engineering Education, in review.
- 3. Dixon, K., Barton, M., Le, J.V., Castro, C.E., Richardson, O.R., **Grzybowski, D.M.** "Making Meaning through Art-Integrated Engineering." 2017 American Society for Engineering Education Annual Conference, Columbus, OH, June 2017.
- 4. **Grzybowski, D.M.**, Wild, T., Yang, S.J. "Engineering Education for Students with Visual Impairments." 2017 American Society for Engineering Education Annual Conference, Columbus, OH, June 2017.
- 5. Wild, T., Grzybowski, D.M., Yang, S.J. "EEVI: Engineering Education for Students with Visual Impairments." Council for Exceptional Children, Boston, MA, April 20, 2017.
- 6. **Grzybowski, D.M.**, Wild, T. "EEVI: Engineering Education for Students with Visual Impairments." National Science Teachers Association, Columbus, OH, December 1, 2016.
- 7. Bannerman, R., Theiss, A. & **Grzybowski, D.M.** "MAKER: Utilizing 3D Printing of Nanotechnology Design Project Prototypes to Enhance Undergraduate Learning." 2016 American Society for Engineering Education Annual Conference, New Orleans, LA, June 2016.
- 8. Dixon, K. & Grzybowski, D.M. "Design as the Practice of Probability: Engaging Adolescent Girls in Art-Infused Engineering." 2016 American Society for Engineering Education Annual Conference, New Orleans, LA, June 2016
- 9. Cohen, W., Freuler, R.J., & Grzybowski, D.M. "MAKER: Applications of 3D Printing and Laser Cutting in Development of Autonomous Robotics." 2016 American Society for Engineering Education Annual Conference, New Orleans, LA, June 2016.
- 10. **Grzybowski, D.M.** and J.T. Demel. "Assessment of Inverted Classroom Success Based on Felder's Index of Learning Styles." 2015 American Society for Engineering Education Annual Conference, Seattle, WA, June 2015.
- 11. **Grzybowski, D.M.**, Stavrdis, O., Sorby, S.A., Merrill, J., Thomas, J.G., Barclay, L., Abrams, L. "Impact of Optional Supplemental Course to Enhance Spatial Visualization Skills in First-Year Engineering Students." 2014 American Society for Engineering Education Annual Conference, Indianapolis, IN, June 2014.
- 12. Spang, M.T., **Grzybowski, D.M.**, Strickland, A. A. "Works in Progress: Impact of First-Year Micro-/Nano-Technology Research Project Course on Future Research and Graduate/Professional School Involvement." 2014 American Society for Engineering Education Annual Conference, Indianapolis, IN, June 2014.
- 13. Kecskemety, K., **Grzybowski, D.M.** "Student Perceptions of Inverted Classroom Benefits in a First-Year Engineering Course." 2014 American Society for Engineering Education Annual Conference, Indianapolis, IN, June 2014.
- 14. Hird, N.L. and **Grzybowski, D.M.** "Impact of Computational Fluid Dynamics use in a First-Year Engineering Research Design Project on Future Performance in Fluid Mechanics." 2014 American Society for Engineering Education Annual Conference, Indianapolis, IN, June 2014.

- 15. Harper, K.A., Baker, G.R, and **Grzybowski, D.M.** "First Steps in Strengthening the Connections Between Mathematics and Engineering." 2013 American Society for Engineering Education Annual Conference, Atlanta, GA, June 25, 2013.
- 16. Tague, J., Czocher, J.A., Baker, G.R., Harper, K.A., **Grzybowski, D.M.**, and Freuler, R. "Engineering Faculty Perspectives on Mathematical Preparation of Students." International Conference on Engineering Education and Research 2013. Marrakech. Morocco. July 2013.
- 17. **Grzybowski, D.M.**, Abernathy, S., Boyd, A.C., Cain, D., Hird, N.L., Madhavan, R.R., Shi, Y., Spang, M.T., Strickland, A.A., and Clingan, P.A. "Student Assisted Approach to Curriculum Changes to Facilitate a Flipped Classroom for First-Year Engineering Micro-/Nano-technology 'Lab-on-a-chip' Research Project." International Conference on Engineering Education and Research 2013, Marrakech, Morocco, July 2013.

#### Honors and Awards

- Recipient Sphinx/Mortar Board Faculty Award (2014)
- STEP Faculty Member (2013 present)
- Recipient of Faculty Award for Outstanding Commitment to Student Education, Panhellenic Association (2012)
- Member Executive Board, Scientific Advisor, The Ohio Lions Eye Research Foundation (2011 present)
- ISTAART ICAD Travel Fellowship (2008)
- Society for Research in Hydrocephalus and Spinal Bifida Travel Award (2008)
- Intracranial Hypertension Research Foundation Scientific Advisory Panel (2006 present)
- The BrainChild Steering Committee (2006 present)
- Recipient Landacre Faculty Teaching Award (2005)
- Association for Research in Vision and Ophthalmology Travel Award (2004)
- CIC Women in Science and Engineering Travel Grant (1998)
- French Fellowship Recipient (1992 1999)
- Graduate Fellow; Tau Beta Pi; Sigma Delta Epsilon; Texnikoi; Outstanding Senior in Chemical Engineering Award, The American Institute of Chemists; Outstanding Freshman Award, Outstanding Freshman Chemistry Award, CRC. (1976-1982)

#### **Panel Member**

- NSF Biomedical Engineering Panel 2013 & 2014 NSF Graduate Research Fellowship Program (GRFP)
- National Sciences and Engineering Research Council of Canada, Collaborative Health Research Projects, 2011.
- Alzheimer's Association, 2009, 2010, 2011
- NIH Neurotransporters, Receptors, Channels, and Calcium Signaling Study Section; 2/2011
- NIH ZRG1 ETTN-K (10) B Small Business: Clinical Neurophysiology, Devices, Auditory Devices and Neuroprosthesis; 10/2011

#### Selected Sponsored Research (Approximate Total Funding Received \$1,290,000)

- "Engineering Education for Students with Visual Impairments (EEVI) Project," Principal Investigator, Ohio Department of Education, MSP Program, \$593,193; 2015-2017.
- "smART::ART Integrated Formal and Informal STEM Education," Principal Investigator, OSU Engagement Impact Grant, \$45,000; 2015-2017.
- "smART: Spatial Visualization and Creativity in Middle School Engineering," Co-Investigator, Battelle Community STEM Challenge Grant, \$53,000; 2015-2017.
- 4. "1282.02H OSU Library Course Enhancement Grant," Principal Investigator, \$2,000; 2012-2013.

#### Inter-institutional collaborations

- Manchester University (co-author)
- Brown University (co-author)
- Duke University (co-author, co-PI)
- ETH Zurich (co-author)

### APPENDIX 2a: Program Goals, Learning Outcomes, and Levels of Proficiency

Table 1. Goal #1 with Program Outcomes and Levels of Proficiency

Program Goals	Program Outcomes	Levels of Proficiency (B= Basic, I = Intermediate, A= Advanced)
	1.A. Engage critical issues in the field with attention to inclusion of multiple perspectives and demographics	1.A.(B) Identify several of the contemporary educational issues with attention to inclusion of multiple perspectives and demographics     1.A.(I) Discuss the main perspectives of contemporary educational issues and describe impact on stakeholders with attention to inclusion of multiple perspectives and demographics.
	perspectives and demographics	1.A.(A) Develop and execute a plan to address educational issues with attention to inclusion of multiple perspectives and demographics
	1.B. Analyze the history and	B.(B) Identify broad historical and foundational aspects of engineering education in US and international contexts.
	foundations of the education of engineers and the discipline of engineering education in US and	1.B.(I) Discuss key historical and foundational aspects of engineering education related to conte mporary issues in US and international contexts.
1 11-4:6- 1:	international contexts	Synthesize relevant educational history and foundations of critical contemporary issues in US and international contexts.
Identify, discuss, and address critical issues	1.C. Characterize potential	1.C.(B) Identify primary stakeholders of engineering education.
facing engineering education in alignment with stakeholder needs	stakeholders and design appropriate engagement strategies	1.C.(I) Explain relationships among stakeholders and contemporary educational issues.
with stakeholder needs		1.C.(A) Define appropriate engagement strategies with stakeholders.
		1.D.(B) Describe several relevant stakeholder needs.
	I.D. Identify and interpret stakeholder needs to develop action plans	1.D.(I) Interpret stakeholder needs in relationship to engineering education.
		1.D.(A) Create an action plan to address one or more stakeholder needs.
	1.E. Contribute to high-impact efforts	1.E.(B) Actively participate in an effort that leads to specific application or transformation of engineering education to meet stakeholder needs.
	to use and/or transform engineering education to best meet stakeholder	1.E.(I) Lead an effort grounded in theory of change to transform engineering education to best meet stakeholder needs.
	needs	1.E.(A) Translate high-impact effort into scholarship.

Table 2. Goal #2 with Program Outcomes and Levels of Proficiency

Program Goals	Program Outcomes	Levels of Proficiency (B= Basic, I = Intermediate, A= Advanced)					
	2.A. Research with attention to	2.A.(B) Identify ways that diverse populations may be impacted negatively and positively by research.					
	inclusion of multiple perspectives and demographics so that research outcomes	2.A.(I) Reflect critically on research across various fields that targets diverse audiences.					
	are more universally relevant	2.A.(A) Expand the body of knowledge in engineering education with attention to inclusion of multiple perspectives and demographics.					
	2.B. Demonstrate awareness of broadly	2.B.(B) Identify current research opportunities and communications within and outside of engineering education.					
	applicable research opportunities, funding, resources, and communications (internal and external	2.B.(I) Distinguish between types of resources and funding available and the corresponding reporting expectations.					
	to the field)	2.B.(A) Select appropriate research opportunities, funding, resources, and communications that aligns with one's research interests and expertise.					
Design, conduct, and critique research in		2.C.(B) Identify appropriate, researchable questions considering relevant literature that address stakeholder needs and advance the field.					
engineering education	2.C. Construct appropriate research questions in engineering education that address stakeholder needs and advance the field	2.C.(I) Appraise whether research questions appropriately align with an overall research study design, address stakeholder needs, and advance the field and contributes to larger body of knowledge in engineering education.					
		2.C.(A) Develop sound engineering education research questions that address stakeholder needs and advance the field.					
		D.(B) Define qualitative, quantitative, and mixed methods commonly used within and outside of engineering education research.					
	2.D. Design research that uses appropriate and evidence- based methods	2.D.(I) Select appropriate methods to research questions.					
		2.D.(A) Propose a comprehensive research project that uses a sound methodological design.					
		2.E.(B) Collect, analyze, and interpret data within a given set of research parameters					
	Collect, analyze, and interpret data using appropriate techniques	2.E.(I) Collect, analyze, and interpret data for a comprehensive research project					
		2.E.(A) Defend the collection, analysis, and interpretation of data from a comprehensive research project					

Program Goals	Program Outcomes	Levels of Proficiency (B= Basic, I = Intermediate, A= Advanced)
		2.F.(B) Differentiate among and select types of dissemination venues for research.
	2.F. Communicate results of research efforts in traditional and non-traditional forms	2.F.(I) Assess when research is appropriate for submission to identified venues.
	Tomis	2.F.(A) Publish in a peer-reviewed dissemination outlet.
		2.G.(B) Identify quality indicators of research.
	C.G. Critique the quality of engineering education research studies of various types presented in different forms	2.G.(I) Evaluate the quality of a selected scholarly effort.
Design, conduct, and critique research in	types presented in different forms	2.G.(A) Serve as a peer reviewer of research studies for an appropriate dissemination venue.
engineering education (continued)		2.H.(B) Recognize prior research conducted in an area of interest.
	<ol> <li>2.H. Analyze how a broad array of research projects integrate into the field.</li> </ol>	H.(I) Determine how to make connections across research themes to identify gaps in literature.
		2.H.(A) Propose a research agenda informed from a synthesis of existing literature and research across multiple fields.
		2.I.(B) Define the aspects of research project management.
	2.I Structure, manage, and implement research projects.	2.I.(I) Develop a structured plan to manage a research study for implementation.
		2.I.(A) Execute a research project and reflect on the execution of that project.

Table 3. Goal #3 with Program Outcomes and Levels of Proficiency

Program Goals	Program Outcomes	Levels of Proficiency (B= Basic, I = Intermediate, A= Advanced)					
	3.A. Apply an engineering mindset to devise	3.A.(B) Discuss solutions to complex problems with attention to inclusion of multiple perspectives and demographics.					
	solutions to complex problems with attention to inclusion of multiple	3.A.(I) Discern the impact of engineering solutions with attention to inclusion of multiple perspectives and demographics.					
	perspectives and demographics.	3.A.(A) Develop an engineering solution to a complex problem with attention to inclusion of multiple perspectives and demographics.					
		3.B.(B) Define an engineering problem and discuss multiple solutions within selected domain					
	B. Demonstrate engineering competence in at least one specific domain.	3.B.(I) Assess integrity of an engineering solution using design criter within a selected domain					
Demonstrate,     value, and apply		3.B.(A) Create and validate an engineering solution within selected domain					
engineering expertise		3.C.(B) Discuss a novel solution and translate language to and from engineering and engineering education settings					
	S.C. Formulate applications of engineering education to engineering practice and vice versa	3.C.(I) Design and propose a novel solution to and from engineering and engineering education settings					
	versa.	3.C.(A) Synthesize outcomes from an engineering solution into an engineering education setting and vice versa					
		3.D.(B) Discuss opportunities for continued learning in engineering.					
	3.D. Identify pathways for lifelong learning in engineering.	3.D.(I) Propose a professional development agenda illustrating pathways for lifelong learning in engineering.					
		3.D.(A) Demonstrate engagement within opportunities for lifelong learning in engineering.					

Table 4. Goal #4 with Program Outcomes and Levels of Proficiency

Program Goals	Program Outcomes	Levels of Proficiency (B= Basic, I = Intermediate, A= Advanced)				
	4 A Educate with attention to inclusion of	4.A.(B) Discuss student and teacher similarities and differences across multiple perspectives and demographics				
	multiple perspectives and demographics so that every student has the opportunity to	4.A.(I) Experiment with different teaching techniques to engage multiple perspectives and demographics so that every student has the opportunity to learn				
		4.A.(A) Engage all students in a given educational experience so that every student has the opportunity to learn.				
	4.B. Design a course or other significant	4.B.(B) Build a lesson plan addressing stakeholder needs.				
	educational experience founded in learning theory explicitly addressing stakeholder	4.B.(I) Critique an existing course syllabus using learning theory.				
	needs	4.B.(A) Develop a course syllabus and discuss the choices made founds in learning theory explicitly addressing stakeholder needs.				
Create, teach, and assess courses and curricula		4.C.(B) Evaluate a course's significance and effectiveness in the context of other courses in a curriculum.				
Curroun	4.C. Analyze how multiple courses integrate into a curriculum	4.C.(I) Synthesize a set of courses' impact on students' learning across a curriculum.				
		4.C.(A) Propose curricular adjustments to address gaps in achieving learning outcomes.				
		4.D.(B) Observe a course or other significant educational experience, highlighting the various techniques used and their appropriateness to the context.				
	4.D. Instruct a course or other significant educational experience using appropriate and evidence-based pedagogical techniques	4.D.(I) Teach effectively a course or other significant educational experience.				
		4.D.(A) Use appropriate and evidence-based pedagogical techniques while teaching a course.				

Program Goals	Program Outcomes	Levels of Proficiency (B= Basic, I = Intermediate, A= Advanced)
		4.E.(B) Reflect on one's teaching experiences highlighting strengths and areas for improvement
	4.E. Assess and improve their own teaching through informed, inquiry-based practice	4.E.(I) Critique different examples of teaching, highlighting the various techniques used and their appropriateness to the context.
		4.E.(A) Gather and apply teaching feedback.
		4.F.(B) Create appropriate learning outcomes.
	4.F. Develop effective tools to evaluate learning	4.F.(I) Develop tools that measure learning outcomes at various levels.
4. Create, teach, and	.cag	4.F.(A) Revise tools and learning outcomes based on experiences and student feedback.
assess courses and curricula (continued)		4.G.(B) Identify students' level of knowledge, skills, and abilities responsibly, equitably, and in alignment with learning outcomes.
(**************************************	4.G. Evaluate and improve student learning responsibly, equitably, and in alignment with learning outcomes	4.G.(I) Determine students' difficulties in alignment with various learning outcomes.
	Ü	4.G.(A) Develop responsible and equitable strategies to assist students in their learning that align with learning outcomes
		4.H.(B) Describe the differences and similarities between assessment and evaluation.
	4.H. Design and implement evaluations/assessments of a variety of educational programming	4.H.(I) Critique an educational program using appropriate assessment and evaluation tools.
	7.0	$4.H.(A) \ Develop \ a \ tool \ to \ assess \ and \ evaluate \ the \ effectiveness \ of \ an \ educational \ program.$

Table 5. Goal #5 with Program Outcomes and Levels of Proficiency

Program Goals	Program Outcomes	Levels of Proficiency (B= Basic, I = Intermediate, A= Advanced)
	5.A. Engage in professional activities with attention to inclusion of multiple	5.A.(B) Reflect with curiosity about what can be learned from communities and cultures with attention to inclusion of multiple perspectives and demographics in order to create synergy in the midst of differences.
	perspectives and demographics in order to create synergy in the midst of differences.	5.A.(I) Demonstrate evidence of adjustment in attitudes and beliefs through working within and learning from diverse communities and cultures.
	differences.	5.A.(A) Promote others' engagement with diversity.
	5.B. Demonstrate a mindset that	5.B.(B) Discuss the diverse and rapidly changing world from more than one field of study or perspective with curiosity about potential positive societal values.
	values curiosity and questioning, finds and leverages connections across a wide range of ideas, and	5.B.(I) Connect examples, facts, or theories from more than one field of study or perspective and describe how positive societal value is created.
	creates positive societal value	5.B.(A) Synthesize conclusions by combining examples, facts, or theories from more than one field of study or perspective which create positive societal value.
<ol> <li>Identify, demonstrate, and value appropriate personal and</li> </ol>	5.C. Function effectively on diverse,	5.C.(B) Discuss the elements of effective teamwork and importance of diverse, multidisciplinary teams.
professional skills,	multidisciplinary teams	5.C.(I) Participate effectively on a diverse, multidisciplinary team.
mindsets, and traits		5.C.(A) Manage a diverse, multidisciplinary team.
		5.D.(B) Explain the appropriate communication strategies to use with a range of audiences using multiple modes and media.
	5.D. Communicate effectively with a range of audiences using multiple modes and media	5.D.(I) Critique specific communications considering a range of potential audiences.
	modes and media	$5.D.(A)\ Disseminate/publish\ appropriate\ to\ target\ audience(s)\ using\ multiple\ modes\ and\ media.$
		5.E.(B) Recognize complex, multi-layered professional ethical dilemmas.
	5.E. Recognize, analyze, and equitably engage with professional	S.E.(I) Critique appropriate perspectives and theories used to analyze professional ethical dilemmas, considering full implications.
	ethical dilemmas	5.E.(A) Apply appropriate perspectives and theories to engage professional ethical dilemmas including assumptions and implications, equitably defending trade-offs.

Program Goals	Program Outcomes	Levels of Proficiency (B= Basic, I = Intermediate, A= Advanced)
		5.F.(B) Discuss the elements of effective leadership skills, including self-awareness, resource management, and motivating others.
	5.F. Demonstrate effective leadership skills	5.F.(I) Critique leadership skills of select individuals, considering visioning, conflict and resource management, and mentoring.
		5.F.(A) Apply effective leadership skills.
		5.G.(B) Describe the project management process and primary constraints including scope, schedule, budget, and quality.
	<ol> <li>Apply appropriate principles to manage teams and projects</li> </ol>	5.G.(I) Critique project management from a variety of sectors including education, development, and industry.
		5.G.(A) Implement the project management process for a comprehensive project
<ol><li>Identify, demonstrate,</li></ol>		5.H.(B) Identify components of multiple cultural perspectives.
and value appropriate personal and	5.H. Demonstrate empathy and cultural competence across professional interactions	5.H.(I) Demonstrate empathetic connection to the complexity of elements important to multiple cultures.
professional skills, mindsets, and traits (continued)	professional interactions	5.H.(A) Promote empathy and cultural competence across professional interactions.
(	5.I. Prepare professional documents	5.I.(B) Describe documents prepared regularly in professional career contexts and identify quality indicators of each.
	and demonstrate effective communication skills appropriate to a variety of job search and career	5.I.(I) Prepare documents and demonstrate effective communication skills appropriate to a variety of job search and career advancement processes .
	advancement processes	5.I.(A) Solicit feedback from multiple sources and revise professional documents appropriate to career goals.
		5.J.(B) Describe multiple continuing education learning experiences explaining the value of lifelong learning.
	5.J. Value and demonstrate commitment to continuing education	5.J.(I) Develop and pursue plans for lifelong learning to support career goals.
	and lifelong learning	5.J.(A) Promote and contribute to knowledge and experiences of peers which provide foundation for expanded knowledge, growth, and maturity over time.

## 4ppendix 2b. Curriculum Map for Engineering Education PhD program

				Req	uired Co	urses			Elective Courses					Co-Currio	ular Milest	ones			
Progra	m Goals	5100	6203	7790	7189.01	7881	7189.02	7900	1	2505	2006	3355577	Proposal and		Arousi	Raylaw			
	sponding Outcomes	Foundations	Learning theory, pedagogy, assessment	Research methods	Practicum 1	Seminar	Practicum 2	Professional development		Prior learning (admission standards)	Qualitying exam (written and oral)	Engineering portfolio ± MSeg.or equivalent	Candidacy (written and oral)	Teaching apportunities	Specialization	individual learning research group	Dissertation Research	Dissertation Document	Dissertation D Defense
1. identify, discuss,	A. Engage critical issues in the field with attention to inclusion of multiple perspectives and demographics.	В	B/I	B/I		1		- 1		5 6	_		ı			A	A	A	-1
and address critical issues facing engineering education in alignment with	8. Analyze the history and foundations of the education of engineers and the discipline of engineering education in US and international contexts.	В/І	B/I			1		I/A			1						A	A	I/A
and the second	C. Characterize potential stakeholders and design appropriate engagement strategies	B/I	B/I		j	1		B/I/A		2	1	j	А			I/A	I/A	I/A	I/A
	O. Identify and interpret stakeholder needs to develop action plans	B/I	В			-		B/I/A					В			I/A	I/A		
	E. Contribute to high impact efforts to use and/or transform engineering education to best meet stakeholder needs	S.		В	В		В			10	V)		В		8	l/A	I/A	I/A	- 1
	A. Research with attention to inclusion of multiple perspectives and demographics so that natioarch outcomes are more universally relevant.	В		B/I		1				8	1		_		× :		Α	А	A
2. Design. conduct.	<ol> <li>Demonstrate awareness of broady applicable research opportunities, funding, resources, and communications (internal and external to the field)</li> </ol>			В		В		I/A		8			A	8	9)	I/A			
and critique research in engineering education	C. Construct appropriate research questions in engineering education that address stakeholder needs and advance the field	В		B/I/A		ī					I/A		А			A	Α	А	A
	Design research that uses appropriate and evidence-based methods     Collect, analyze, and			B/I							-		Α			I/A	Α	Α	Α
	interpret data using appropriate techniques			В							-		-			Α	Α	Α	Α
	research efforts in traditional and non- traditional forms	В		В				В					B/I			I/A	I/A	Α	Α
	G. Ortique the quality of engineering education research studies of various types presented in different forms	B/I	B/I	B/I		1					Ξ		=		A	-			
	H. Analyze how a broad amay of research projects integrate into the field.	В		В		-		Α					-			В/І	Α	Α	- 1
	Structure, manage, and implament research projects     A Apply an engineering			B/I									_	- 8		B/I/A	Α	Α	Α
3. Demonstrate, value,	mindset to devise solutions to complex problems with attention to inclusion of multiple perspectives and demographics.									B/I		B/I/A							
and apply engineering expertise	<ol> <li>Demonstrate angineering competence in at least one specific cornein.</li> </ol>									B/I		B/I/A							
	C. Formulate applications of engineering education to engineering practice and vice versa.		В/I		В		-				9			I/A		В	I/A	I/A	I/A
	O: Identify pathways for ifelong learning in engineering.							I/A		В		B/I				В			

NOTES: Letter (B, I, A) indicates level of highest proficiency attainment in that course or curricular element:

<sup>&</sup>quot;T" = INTERMEDIATE skills encompassing application of knowledge to analyze a problem
"A" = ADVANCID skills encompassing ability to evaluate, ludge, and synthesize information

				Re	quired	Courses			Courses	12				Co-Cur	ricular Mile	stones			
Progra	am Goals	6100	6200	7790	7109.01	7804	7189.02	7900		1000			Proposal and		Annual	Review			
	esponding Q Outcomes	Foundation	Learning theory, padagogy, assessment	Research methods	Practicum 1	Seminar	Practicum 2	Professional development		Prior learning (admission standards)	Qualifying exam (writtee and oral)	Engineering portfulio 2 MEss or equivalent	Candidacy (written and oral)	Teaching opportunities	Specialization	learning research group	Dissertation Research	Document.	Exementation On Daterna
	A. Educate with attention to inclusion of multiple parapectives and demographics so that wanty student has the apportunity to learn		B/I		А		A				В			I/A					
4. Create, teach, and assess courses	Design a course or other significant equations experience founded in learning theory explicitly addressing stakeholder needs		I/A		В	ď	1	2			-			I/A					
and curricula	C. Analyze how multiple courses integrate into a curriculum.		B/I/A		В		Α								B/A				
	O. Instruct a course or other significant educations experience using appropriate and evidence-based pedagogical techniques		В		ľΑ	9	A	2						l/A					
	E. Assess and improve their own teaching through informed, inquiry-based practice		B/I		B/I		Α						1	B/I/A					
	F. Develop effective tools to evaluate learning		B/I		-		Α				B/I			I/A					
	G. Evaluate and improve student learning responsibly, equitably, and in alignment with learning outcomes				B/I		I/A						Ī	B/I/A					
	H. Design and implement evaluation/assessments of a variety of educational programming		B/I		В	0	I/A	7			1			2					
DATE	A. Engage in professional activities with attention to notation of multiple perspectives and demographics in order to create synengy in the midst of differences.				В	1	B/I	В						В/І		A	A	A	A
5. Identify, demonstrate, and value appropriate personal and	8. Demonstrate a mindset that values curiosity and questioning, finds and leverages connections across a wide range of ideas, and creates positive societal value.	B/I	B/I			A					1	H	А			A	A	А	A
professional skills, mindsets, and traits	<ul> <li>C. Function effectively on diverse, multidisciplinary teams</li> </ul>			В	-		1	В								I/A	Α		
N IU	Communicate effectively with a range of audienous using multiple modes and media		B/I	B/I		B/I/A	STATE OF THE STATE	I/A		, , ,				В		1	A	Α	A
	E. Recognize, analyze, and equitably engage with professional ethical diameters	B/I	B/I	В		A					1					Α	А		Α
	F. Demonstrate effective leadership skifs				В		1	B/I						Α		Α	Α		
	G. Apply appropriate principles to manage teams and projects			В				B/I								1	Α		
	H. Demonstrate empathy and cultural competence across professional interactions	В	В		_		1	Α			В		1	1		A	A	A	Α
	Prepare professional documents and demonstrate effective communication skills appropriate to a variety of job search and career advancement processes.					В		B/I/A				T				I/A	į	A	
	J. Value and demonstrate commitment to continuing education and lifelong seming					В		B/I				1		А		Α	1	А	А

NOTES: Letter (B, I, A) indicates level of highest proficiency attainment in that course or curricular "B" = BASIC skills encompassing knowledge and comprehension of subject matter "I" = INTERMEDIATE skills encompassing abplication of knowledge to analyze a problem "A" = ADVANCED skills encompassing ability to evaluate, judge, and synthesize information

# APPENDIX 2c. Example semester-by-semester plans for students with and without M.S. engineering degrees at time of admission

## Entering with a M.S. in Engineering

(Transfer 12 Engineering Credits)

	Autumn	Spring	Summer
	ENGREDU 7881 (1)	ENGREDU 7881 (1)	Diss (6)
	ENGREDU 6100 (3)	ENGREDU 6200 (3)	Elec (3)
W1	ENGREDU 7780 (3)	Research methods (3)	Qualifying Exam
Year 1	ENGREDU 7189.01 (2)	ENGREDU 7189.02 (1)	
		Diss (1)	
	9	9	9
			·
	Research methods (3)	ENGREDU 7900 (3)	Diss (6)
	Elec (3)	Research methods (3)	Candidacy
Year 2	Elec (3)	Elec (3)	
	Diss (6)	Diss (6)	
	15	15	6
	Diss (3)	Diss (3)	
X7 2		Defense	
Year 3			
	3	3	

# Entering with a B.S. in Engineering (Transfer 0 Credits)

	Autumn	Spring	Summer
	ENGREDU 7881 (1)	ENGREDU 7881 (1)	Qualifying Exam
	ENGREDU 6100 (3)	ENGREDU 6200 (3)	
Year 1	ENGRED 7780 (3)	Engineering (3)	
1 car 1	ENGREDU 7189.01	ENGREDU 7189.02	
	(2)	(1)	
	9	8	
	Research methods (3)	Research methods (3)	Diss (6)
	Engineering (3)	Elec (3)	
Year 2	Engineering (3)	Engineering (3)	
	Elec (3)	Diss (1)	
	9	10	6
	Elec (3)	ENGREDU 7900 (3)	Diss (6)
X7 2	Research methods (3)	Elec (3)	Candidacy
Year 3	Diss (6)	Diss (6)	
	12	12	6
	Diss (3)	Diss (3)	
77 4		Defense	
Year 4			
	3	3	

## DEPARTMENT OF ENGINEERING EDUCATION Ph. D. ADVISING SHEET

College of Engineering, The Ohio State University

Name:	OSU Student ID #:
Area of Study:	Admission Year:
Faculty Advisor:	Expected Graduation:

#### \*Minimum of 80 Graduate Credit Hours (may include up to 30 hours of transfer credit)\*

This form must be completed and submitted by the student to EED Graduate Studies Committee with his or her faculty advisor signature before the department can approve the Application to Graduate through the GRADFORMS.OSU.EDU system.

#### **Transfer Credit**

All transfer coursework MUST be approved by student's faculty advisor and have been completed within 6 years of the date of admission. For **OSU Graduate Non-Degree** courses, a limit of 7 semester hours may be transferred. For **non-OSU graduate courses** or a **completed Master's degree**, a maximum of 30 hours can be transferred. The Transfer of Graduate Credit form must be completed and submitted through the **GRADFORMS.OSU.EDU** system.

Institution	Course Number/Title	Date Transfer of Graduate Credit submitted	Units

#### **Professional Engagement**

Each EED doctoral student is expected to complete an Annual Evaluation of professional and academic progress with his/her faculty advisor. See the EED Graduate

Handbook for the process and expectations regarding student involvement in professional organizations, presentations, conferences, and publications.

#### **EED Core Ph.D. Requirements**

Each EED doctoral student is required to complete the core coursework.

Course #	Course Title	Term/Year	Grade	Unit(s)
ENGREDU 6100	Foundations and the Field of Engineering Education			
ENGREDU 6200	Learning Theory, Pedagogy, and Assessment			
ENGREDU 7780	Engineering Education Research Methods			
ENGREDU 7881	Seminar			
ENGREDU 7900	Professional Development in Engineering Education			

#### Specialization Elective Courses

Please refer to the approved list of elective courses for each EED Specialization. Other courses within or outside EED must be approved by your faculty advisor

Course #	Course Title	Term/Year	Grade	Unit(s)

#### **Engineering disciplinary requirement**

Each EED doctoral student must complete at least twelve hours of traditional engineering coursework at the graduate (5000+) level.

Course #	Course Title	Term/Year	Grade	Unit(s)

#### **Research Methods**

Each EED doctoral student is required to complete <u>a minimum of 9 semester hours</u> of Research Methods coursework, but faculty advisors may require more. Students may choose a qualitative, quantitative, mixed focus, or other research method approved by their faculty advisor. <u>ENGEDU 7780 is highly recommended prior to beaining a research sequence</u>

Course #	Course Title	Term/Year	Grade	Unit(s)

#### **Scholarly Teaching Practicum**

The purpose of the Scholarly Teaching Practicum course sequence is to provide students with professional experiences of closing the research-practice loop in engineering education. Each doctoral student must complete <u>a minimum of 3 hours</u> of ENGREDU 7189. These are distinct from assistantship (i.e. GAA, GTA, or GRA) hours.

Course #	Course Title	Term/Year	Grade	Unit(s)
ENGREDU 7189.01	Engineering Education Practicum I			
ENGREDU 7189.02	Engineering Education Practicum II			

#### **Candidacy Examination**

Once all of the above course requirements are fulfilled, doctoral students should register for ENGREDU 7193 with his/her faculty advisor for at least 2 consecutive terms in preparation for the Candidacy Examination (no minimum number of credits required) and for at least 3 credit hours of ENGREDU 7193 during the semester in which the candidacy examination is recompleted.

Course #	Course Title	Term/Year	Grade	Unit(s)
ENGREDU 7193	Individual Studies in Preparation for Candidacy Exam			
ENGREDU 7193	Individual Studies in Preparation for Candidacy Exam			1
ENGREDU 7193	Individual Studies in Preparation for Candidacy Exam			
ENGREDU 7193	Individual Studies Semester of Candidacy Exam			

Minimum of 4 Candidacy Committee Members (Including Faculty Advisor)	Date of Candidacy Exam
1.	
2.	
3.	
4.	

#### **Candidacy & Residency Requirements**

Completed	
	Dissertation completed within 5 years of being admitted to candidacy or one-term extension petition has been
	approved (via <u>GRADFORMS.OSU.EDU</u> ).
	Minimum of 24 graduate credit hours at OSU.

#### **Dissertation Research**

Each EED doctoral student must complete a <u>minimum of 6 graduate credit hours research post-condidacy with his/her faculty advisor</u>. It is also a requirement to maintain continuous enrollment (AU/SP, SP/SU, or SU/AU) with 3 graduate credit hours per semester. Summer Term (includes May Session and Summer Session) enrollment is excluded <u>except</u> for those completing an exam or defense during the Summer.

Course #	Course Title	Term/Year	Grade	Unit(s)
ENGREDU 8999	Dissertation Research			
ENGREDU 8999	Dissertation Research			
ENGREDU 8999	Dissertation Research			
ENGERDU 8999	Dissertation Research			

Minimum of 3 Dissertation Committee Members (Including Faculty Advisor)	Date of Final Exam
1.	
2.	
3.	
4	

Student Signature:	Credit Hour Total	
Faculty Advisor Signature:	(Minimum of 80):	

## Appendix 2e: Examples of Engineering Education Doctoral Dissertation Titles from Purdue University and Virginia Tech (2006-2015)

and Virginia Tech (2006-2015)				
Grad Year	Dissertation Title			
2010	Investigations of Student and Team Creativity on an Introductory Engineering Design Project			
2011	Organization and Retention of Students in Graduate Engineering Research Groups			
2011	Mentoring in Engineering Capstone Design Courses: Beliefs and Practices across Disciplines			
	Engineering Faculty Motivation for and Engagement in Formative Assessment			
2012	The Impact of Simulation-Based Learning in Aircraft Design on Aerospace Student Preparedness for Engineering Practice: A Mixed Methods Approach			
2012	Design and Implementation of a Real-Time Environmental Monitoring Lab with Applications in Sustainability Education			
2012	The Identification and Emergence of Constraints in First-Year Design Projects and the Effect on Practice in Engineering Students			
2012	Assessment of First-Year Engineering Students' Spatial Visualization Skills			
2012	Career Goals and Actions of Early Career Engineering Graduates			
2013	People not Print: Exploring Engineering Future Possible Self Development in Rural Areas of Tennessee's Cumberland Plateau			
2013	Voices in the Mountains: A Qualitative Study Exploring Factors Influencing Appalachian High School Students Engineering Career Goals			
2013	How Static is the Statics Classroom? An investigation into how innovations, specifically Research-Based Instructional Strategies, are adopted into the Statics classroom			
2013	The Motivation and Identity Development of Graduate Teaching Assistants in First-Year Engineering Programs			
2013	Characterizing student attention in technology-infused classroom using real-time active window data			
2013	Promoting Conceptual Understanding via Adaptive Concept Maps			
2013	Preparing and Progressing: A Narrative Study of Optics and PhotonicsGraduateStudentsIdentity-Trajectory			
2014	Thinking About Thinking in Study Groups: Studying Engineering Students' Use of Metacognition in Naturalistic Setting			
2014	Virtual Socialization in Engineering Education: Identifying the Impacts of a Socializer-Based Intervention on Second-Year Engineering Students			
2014	Knowledge Creation Analytics for Online Engineering Learning			
2015	The Experiences of African-American Males on Multiracial Student Teams in Engineering			
2015	Implementing Problem-based Learning in Introductory Engineering Courses: A Qualitative Investigation of Facilitation Strategies			
2015	Providing Co-Curricular Support: A Multi-Case Study of Engineering Student Support Centers			
2015	The Intersecting Perspective: African American Female Experiences with Faculty Mentoring in Undergraduate Engineering			
2015	Using Writing Assignments to Promote Conceptual Knowledge Development in Engineering Statics			
	2010 2011 2011 2011 2011 2012 2012 2012			

A1	Grad	D	
Alum	Year	Dissertation Title	
Tamara Moore	2006	Student Team Functioning and the Effect on Problem Solving in a First-Year Engineering Course	
Stephanie	2000	Engineering Course	
Kusano		Unknown	
11454115		Factors Affecting the Self-Efficacy Beliefs of First- and Second-Year Engineering	
Mica Green	2007	Students	
		Methods of Incorporating Understanding of Professional and Ethical	
		Responsibility in the Engineering Curriculum and Results from the Fundamentals	
Brock Barry	2008	of Engineering Examination	
Shanna Daly	2008	Design Across Disciplines	
Holly		Choosing Engineering: Can I Succeed and Do I Want To? A Qualitative Study	
Matusovich	2008	Using Expectancy-Value Theory	
Euridice			
Oware	2008	Examining Elementary Students' Perceptions of Engineers	
Alejandra		Defended to the desired and the second secon	
Magana de	2000	Professors' and students' perceptions and experiences of computational	
Leo	2009	simulations as learning tools  Development of the Student Attitudinal Success Instrument: Assessment of First-	
Ken Reid	2009	Year Engineering Students Including Differences by Gender	
Aidsa	2003	real Engineering Students including Differences by Gender	
Santiago			
Roman	2009	Fitting Diagnostic Assessment to the Concept Assessment Tool for Statics	
Odesma		The Pedagogical Value of Disassemble/Analyze/Assemble (DAA) Activities:	
Dalrymple	2009	Assessing the Potential for Transfer	
Matthew		Analysis of an Informed Peer Review Matching Algorithm and Its Impact on	
Verleger	2009	Student work on Model-Eliciting Activities	
Kerry			
Meyers	2009	Engineering Identity as a Developmental Process	
Tameka Clarke		A Case Study of an Undergraduate Engineering Peer Tutoring Group: An	
Douglas	2010	Investigation of the Structure of a Community of Practice and the Value Members Gain from Participation	
Carla	2010	Gailt Holli Participation	
Zoltowski	2010	Students' Ways of Experiencing Human-Centered Design	
Nathan	20.0	Global Engineering Education Programs: More than Just International	
McNeill	2010	Experiences	
		A Phenomenographic Study of the Ways of Understanding Conditional and	
Greg Bucks	2010	Repetition Structures in Computer Programming Languages	
Yogesh		Conceptions of research and development work and competence in a high-tech	
Velankar	2010	entrepreneurial organization	
	05:-	Socialization Experiences Resulting from Engineering Teaching Assistantships at	
Irene Mena	2010	Purdue University	
Shawn	2040	Success in Virtual Cross dissiplinary Engineering Design Tooms in Industries	
Jordan Rocio	2010	Success in Virtual Cross-disciplinary Engineering Design Teams in Industry  Faculty development units at Mexican higher education institutions: A descriptive	
Chavela	2010	study of characteristics, common practices and challenges	
Katerina	2010	Study of characteristics, common practices and challenges	
Bagiati	2011	Early Engineering: A Developmentally Appropriate Curriculum for Young Children	
Michele		Influences on Low-SES First Generation Students' Decision to Pursue	
Strutz	2012	Engineering	
		Findinga Placein Engineering: Examining Students Choice of Engineering	
Ida		Discipline	
Ngambeki	2012		

	Grad		
Alum	Year	Dissertation Title	
Lorie Groll	2013	Negotiating Cultural Humility: First-YearEngineeringStudents'Developmentina Lifelong Journey	
Qu Jin	2013	Modeling Student Success in Engineering Education	
Qu 0		Formative feedback using pseudo peer diagrams: Evaluating system equilibrium	
Sensen Li	2013	of buoyancy forces	
Mary Pilotte	2013	Engineering: Defining and Differentiating Its Unique Culture	
Jiabin Zhu	2013	Personal Epistemological Development of Chinese Engineering Doctoral Students in U.S. Institutions: An Application of Perry's Theory	
Diana Bairaktarova	2013	Mechanical Objects and the Engineering Learner: An Experimental Study of How the Presence of Objects Affects Students' Performance on Engineering-Related Tasks	
Joe Lin	2013	Student success: Approaches to modeling student matriculation and retention	
George Ricco	2013	Degree program changes and curricular flexibility: Addressing long held beliefs about student progression	
Junqui Wang	2013	Accomment of Engineering Student Team Effectiveness	
Beth	2013	Assessment of Engineering Student Team Effectiveness  Engineering students at typically invisible transition points: A focus on admissions	
Holloway	2013	and the sophomore year	
Daniel		How engineering innovators characterize engineering innovativeness: A	
Ferguson	2013	qualitative study	
		Toward a new model within the community of inquiry framework: Multivariate	
		linear regression analyses based on graduate student perceptions of learning	
Ruth Wertz	2014	online	
Rui Celia Pan	2014	Engineering Students Experiences and Perceptions of Workplace Problem Solving	
Junaid	2014	Transformation of engineering education: Taking a perspective for the challenges	
Siddiqui	2014	of change	
Oldalqui	2017	Psychological Journeys of Engineering Identity from School to the Workplace:	
James Huff	2014	How Students Become Engineers Among Other Forms of Self	
Meagan		Multiple Case Study Analysis of Young Women' TM's Experiences in High	
Pollack	2014	School	
Noah		A Phenomenographic Study of Students' Experiences with Transition from Pre-	
Salzman	2014	college Engineering Programs to First-Year Engineering	
Anne			
Lucietto	2014	The Role of Academic Ability in Choice of Major and Persistence in STEM Fields	
Velvet	2014	Cognitive Diversity in Undergraduate Engineering: Dyelevia	
Fitzpatrick Beniamin	2014	Cognitive Diversity in Undergraduate Engineering: Dyslexia  Creation of an instrument to measure graduate student and postdoctoral	
Ahn	2014	mentoring abilities in engineering and science undergraduate research settings	
Jeremi	2017	The impact of National Science Foundation investments in undergraduate	
London	2014	engineering education research: An exploratory mixed methods study	
Farrah		A Qualitative Study of Problematic Reasonings of Undergraduate Electrical	
Fayyaz	2014	Engineering Students in Continuous Time Signals and Systems Courses	
Marisol			
Mercado		Culturally Responsive Engineering Education: A Case Study of a Pre-College	
Santiago	2014	IntroductoryEngineeringCoursealTibetanChildren'sVllageSchoolofSelaku	
		The Composition of First-Year Engineering Curricula and Its Relationships to	
Xingyu Chen	2014	Matriculation Models and Institutional Characteristics	
Jacqueline	2044	Engineering Faculty Views of Teaching Quality, Accreditation, and Institutional	
McNeil	2014	Climate and How They Influence Teaching Practices	

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# **ENGREDU 6100 (3 Credit) Foundations and the Field of Engineering Education**

Time: Day #:## - #:##pm Classroom: HI ###

#### Instructor Information

Instructor: Name
Email: \_\_\_\_\_
Office: HI ###
Office Hours: By Appointment

## Course Description (400 character limit)

This course is designed to prepare students for future courses, and careers in engineering education. Students will engage with literature focusing on theories and frameworks which highlight fundamental issues, questions, and approaches in engineering education.

#### Course Goals

Following the structure of the OSU EED Graduate Curriculum, this course serves to contribute to student development as seen in Table #. This course does not necessarily seek to fully accomplish any of the listed goals, but contributes to the objectives and outcomes within the goal as shown.

Goals:	Objectives:	Outcomes:
Students will:	Students will:	Students will be able to:
1. Identify, discuss, and address critical issues facing engineering education in alignment with	1A. Engage critical issues in the field with attention to inclusion of multiple perspectives	1.A.(B) Identify several of the contemporary educational issues with attention to inclusion of multiple perspectives and demographics
	Analyze the history and foundations of the education of engineers and the	1.B.(B) Identify broad historical and foundational aspects of engineering education in US and international contexts.
	discipline of engineering education in US and international contexts	1.B.(I) Discuss key historical and foundational aspects of engineering education related to contemporary issues in US and international contexts.
	1C. Characterize potential stakeholders and design appropriate engagement strategies	1.C.(B) Identify primary stakeholders of engineering education.
stakeholder needs		1.C.(I) Explain relationships among stakeholders and contemporary educational issues.
	1D. Identify and interpret stakeholder	1.D.(B) Describe several relevant stakeholder needs.
	needs to develop action plans	1.D.(I) Interpret stakeholder needs in relationship to engineering education.
2. Design, conduct, and critique research in engineering education	2A. Research with attention to inclusion of multiple perspectives and demographics so that research outcomes are more universally relevant	2.A.(B) Identify ways that diverse populations may be impacted negatively and positively by research.
	2C. Construct appropriate research questions in engineering education that address stakeholder needs and advance the field	2.C.(B) Identify appropriate, researchable questions considering relevant literature that address stakeholder needs and advance the field.
	2F. Communicate results of research efforts in traditional and non-traditional	2.F.(B) Differentiate among and select types of dissemination venues for research.

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	forms	
	2G. Critique the quality of engineering education research studies of various types presented in different forms  2H. Analyze how a broad array of research projects integrate into the field.	2.G.(B) Identify quality indicators of research.  2.G.(I) Evaluate the quality of a selected scholarly effort.  2.H.(B) Recognize prior research conducted in an area of interest.
5. Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits	5B. Demonstrate a mindset that values curiosity and questioning, finds and leverages connections across a wide range of ideas, and creates positive societal value	5.B.(B) Discuss the diverse and rapidly changing world from more than one field of study or perspective with curiosity about potential positive societal values.
	5E. Recognize, analyze, and equitably engage with professional ethical dilemmas	5.E.(B) Recognize complex, multi-layered professional ethical dilemmas.
	5H. Demonstrate empathy and cultural competence across professional interactions	5.H.(B) Identify components of multiple cultural perspectives.
	5J. Value and demonstrate commitment to continuing education and lifelong learning	5.J.(B) Describe multiple continuing education learning experiences explaining the value of lifelong learning.

Table 1: Goals, Objectives, and Outcomes impacted by ENGREDU 6100.

#### Course Rationale (150 character limit)

This course helps students understand what the field of engineering education is and identify their position within it to guide their proper professional actions.

## Course Topics (Learning Objectives)

- Teaching and Learning in engineering education
- Curriculum Development
- Research in Engineering Education
- Change in Engineering Education
- Engineering and Society

### Course Materials (Representative Textbook(s)):

Provided by instructor as needed.

#### **Books**

 Johri, A., & Olds, B. M. (Eds.). (2014). Cambridge handbook of engineering education research. Cambridge University Press.

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Week (Date)	Course Topics	Assignment	Class Outcome*
1	Teaching and Learning	Reflections on Readings	1A(B) 1B(B)
2	Teaching and Learning		
3	Curricula Development	Reflections on Readings	1A(B) 1B(B)
4	Curricula Development	Student Presentations	
5	Research in Engineering Education	Student Presentations	1B(I), 2C(B)
6	Research in Engineering Education	Reflections on Readings	2C(B), 2G(B)
7	Change in Engineering Education	Student Presentations	1C(B), 2A(B), 2B(B)
8			
9	Change in Engineering Education	Essay Questions	
10	Engineering and Society	Reflections on Readings	1C(B), 1D(B), 5E(B)
11	Engineering and Society	Student Presentations	1C(I), 1D(I), 2F(B), 5E(I)
12	Engineering and Society		2G(B), 2G(I)
13	What is Engineering Education?	Develop/Write Personal Statements	2C(B), 5B(B), 5B(I), 5J(B)
14			
15	What is Engineering Education?	Peer Critique	2B(B), 5B(I)

<sup>\*</sup> See Table 1

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#### Grades

The course is graded on a standard A-E scale. Course grades will be calculated accordingly:

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  preparation work (readings, videos, etc.) and be engaged throughout each class period.
- Interest in Engineering Education Statement 10%: See handout.
- Group Presentation/Discussion on Topic of the Day 20% (10% each): See handout.
- Synthesis Essays 30% (10% each): See handout.
- Visualization 20%: See handout.

#### Attendance

Attendance and active participation are required to pass this course and to have an impact on your teaching in a meaningful way. You may have up to two excused absences in this version of the course and still pass the class. If you will be absent, you must notify the instructor as soon as possible. Excused absences include being sick, attending a conference, having a job interview, etc. Unexcused absences are not acceptable.

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## ENGREDU 6200 (3 Credit)

## Learning Theory, Pedagogy, and Assessment in Engineering Education

Time: Day #:## - #:##pm Classroom: HI ###

#### Instructor Information

•	Instructor: Name	•	Office: HI ###
•	Email:	•	Office Hours: By Appointment

### Course Description (400 character limit)

This course is designed to provide foundational understandings of educational learning theory, pedagogy and assessment methods within engineering education. The processes learned will inform research and instructional practice decisions, approaches and analysis.

#### Course Goals

Following the structure of the OSU EED Graduate Curriculum, this course serves to contribute to student development as seen in Table #. This course does not necessarily seek to fully accomplish any of the listed goals, but contributes to the objectives and outcomes within the goal as shown.

Goals:	Objectives:	Outcomes:
Students will:	Students will:	Students will be able to:
1.identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs	1A. Engage critical issues in the	1.A.(B) Identify several of the contemporary educational issues with attention to inclusion of multiple perspectives and demographics
	field with attention to inclusion of multiple perspectives	1.A.(I) Discuss the main perspectives of contemporary educational issues and describe impact on stakeholders with attention to inclusion of multiple perspectives and demographics.
	1.B. Analyze the history and foundations of the education of engineers and the discipline of engineering education in US and international contexts	1.B.(B) Identify broad historical and foundational aspects of engineering education in US and international contexts.
		1.B.(I) Discuss key historical and foundational aspects of engineering education related to contemporary issues in US and international contexts.
	1.C. Characterize potential stakeholders and design appropriate engagement strategies	1.C.(B) Identify primary stakeholders of engineering education.
		1.C.(I) Explain relationships among stakeholders and contemporary educational issues.
	1.D. Identify and interpret stakeholder needs to develop action plans	1.D.(B) Describe several relevant stakeholder needs.

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	2.G. Critique the quality of engineering education research	2.G.(B) Identify quality indicators of research.
	studies of various types presented in different forms	2.G.(I) Evaluate the quality of a selected scholarly effort.
	2.H. Analyze how a broad array of research projects integrate into the field.	2.H.(I) Determine how to make connections across research themes to identify gaps in literature.
3. demonstrate, value, and apply	3.C.Formulate applications of engineering education to	3.C.(B) Discuss a novel solution and translate language to and from engineering and engineering education settings
engineering expertise	engineering practice and vice versa.	3.C.(I) Design and propose a novel solution to and from engineering and engineering education settings
	4.A. Educate with attention to inclusion of multiple perspectives and demographics so that every student has the opportunity to learn	4.A.(B) Discuss student and teacher similarities and differences across multiple perspectives and demographics
	4.B. Design a course or other significant educational experience founded in learning theory explicitly addressing stakeholder needs	4.B.(I) Critique an existing course syllabus using learning theory.
		4.B.(A) Develop a course syllabus and discuss the choices made founded in learning theory explicitly addressing stakeholder needs.
	4.C. Analyze how multiple courses integrate into a curriculum	4.C.(B) Evaluate a course's significance and effectiveness in the context of other courses in a curriculum.
4. create, teach, and assess		4.C.(I) Synthesize a set of courses' impact on students' learning across a curriculum.
courses and curricula		4.C.(A) Propose curricular adjustments to address gaps in achieving learning outcomes.
	4.D. Instruct a course or other significant educational experience using appropriate and evidence-based pedagogical techniques  4.E. Assess and improve their own teaching through informed, inquiry-based practice	4.D.(B) Observe a course or other significant educational experience, highlighting the various techniques used and their appropriateness to the context.
		4.E.(B) Reflect on one's teaching experiences highlighting strengths and areas for improvement
		4.E.(I) Critique different examples of teaching, highlighting the various techniques used and their appropriateness to the context.

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	4.H. Design and implement evaluations/assessments of a variety of educational	4.F.(B) Create appropriate learning outcomes.
		4.F.(I) Develop tools that measure learning outcomes at various levels.
		4.H.(B) Describe the differences and similarities between assessment and evaluation.
		4.H.(I) Critique an educational program using appropriate assessment and evaluation tools.
	5.D. Communicate effectively with a range of audiences using multiple modes and media all sets,	5.B.(B) Explain the appropriate communication strategies to use with a range of audiences using multiple modes and media.
		5.B.(I) Connect examples, facts, or theories from more than one field of study or perspective and describe how positive societal value is created.
5. Identify, demonstrate, and value		5.D.(B) Explain the appropriate communication strategies to use with a range of audiences using multiple modes and media.
appropriate personal and		5.D.(I) Critique specific communications considering a range of potential audiences.
professional skills, mindsets, and traits		5.E.(B) Recognize complex, multi-layered professional ethical dilemmas.
		5.E.(I) Critique appropriate perspectives and theories used to analyze professional ethical dilemmas, considering full implications.
	5.H. Demonstrate empathy and cultural competence across professional interactions	5.H.(B) Identify components of multiple cultural perspectives.

 $\underline{\text{Table \#:}}$  Goals, Objectives, and Outcomes impacted by ENGREDU 6200.

#### Course Rationale (150 character limit)

This course prepares students to contribute to both research and practice in the field of engineering and engineering education by acquiring background in learning theory, pedagogy / andragogy, and assessment / accreditation/ evaluation of learning.

#### Course Topics (Learning Objectives)

- Pedagogy, Epistemology, and Metacognition
- · Learning Theories
- Assessment and Evaluation
- · Accreditation and ABET
- Learning Environments in Engineering Education

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#### Course Materials (Representative Textbook(s)):

Provided by instructor as needed.

ided by instructor as needed.				
Week	Course Topics	Assignment	Class	
(Date)	-	Ü	Outcome*	
1	Pedagogy, Epistemology, Metacognition	Discussion Worksheet	1A(B), 1B(B), 1C(B)	
2	Pedagogical Approaches	Reflections on Readings	1C(I)	
3	Course Design	Course Critique		
4	Positivism and Post-Positivism		4A(B), 4F(B), 5D(B), 5H(B)	
5	Critical Theory and Constructivism	Rubric Development	4F(I)	
6	Learning Theories	Micro-Teaching Session	4A(I), 4D(B), 5D(I)	
7	Learning Theories in Engineering	Peer Evaluation	4E(B), 4E(I)	
8		Midterm		
9	Learning Environments in Engineering	Reflections on Presentation	4B(I), 4D(B)	
10	Assessment and Evaluation in Engineering			
11	ABET	Reflections on Readings	4B(A)	
12	Assessment in Engineering Education	Reflections on Readings	2G(B), 4C(B), 4C(I), 4C(A)	
13	Research in Engineering Education	Syllabus Development	2G(I)	
14	Work Day	Curricular Critique	3C(B), 3C(I)	
15		Micro-Teaching Session		

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\* See Table 1

#### Grades

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- Participation 20%: To adequately participate in class, you must complete any required preparation work (readings, videos, etc.) and be engaged throughout each class period.
- Research Statement 10%: See handout.
- Group Presentation/Discussion on Topic of the Day 20%: See handout.
- Synthesis Essays 30% (10% each): See handout.
- Visualization 20%: See handout.

#### Attendance

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# **ENGREDU 7189.01 (1 Credit) GTA Preparation and Support**

Time: Thursdays 5:30-6:30pm Classroom: HI 244G

#### **Instructor Information**

Instructor: Rachel Kajfez
 Office: HI 244

• Email: Kajfez.2@osu.edu • Office Hours: By Appointment

#### Course Description

This course supplements Graduate Teaching Assistant (GTA) content based training by exposing GTAs to instructional pedagogies. It is a practical introduction to engineering education for GTAs. Topics include using assessment for learning, best practices in instructional methods, techniques for self-reflection, etc. This version of the course is designed for new GTAs.

#### Course Goals

Following the structure of the OSU EED Graduate Curriculum, this course serves to contribute to student development as seen in Table 1. This course does not necessarily seek to fully accomplish any of the listed goals, but contributes to the objectives and outcomes within the goal as shown.

Goals:	Objectives:	Outcomes:
Students will:	Students will:	Students will be able to:
1. Identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs	E. Contribute to high-impact efforts to use and/or transform engineering education to best meet stakeholder needs	(B) Actively participate in an effort that leads to specific application or transformation of engineering education to meet stakeholder needs
3. Demonstrate, value, and apply engineering expertise	C. Formulate applications of engineering education to engineering practice and vice versa	(B) Discuss a novel solution and translate language to and from engineering and engineering education settings
	A. Educate with attention to inclusion of multiple perspectives and demographics so that every student has the opportunity to learn	(A) Engage all students in a given educational experience so that every student has the opportunity to learn
4. Create, teach, and assess courses and curricula	B. Design a course or other significant educational experience founded in learning theory explicitly addressing stakeholder needs	(B) Build a lesson plan addressing stakeholder needs
	C. Analyze how multiple courses integrate into a curriculum	(B) Evaluate a course's significance and effectiveness in the context of other courses in a curriculum
	D. Instruct a course or other significant educational experience	(A) Use appropriate and evidence-based pedagogical techniques while teaching a course

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	using appropriate and evidence- based pedagogical techniques	(I) Teach effectively a course or other significant educational experience
	E. Assess and improve their own	(B) Reflect on one's teaching experiences highlighting strengths and areas for improvement
	teaching through informed, inquiry- based practice	(I) Critique different examples of teaching, highlighting the various techniques used and their appropriateness to the context
	F. Develop effective tools to evaluate learning	(I) Develop tools that measure learning outcomes at various levels
	G. Evaluate and improve student learning responsibly, equitably, and	(B) Identify students' level of knowledge, skills, and abilities responsibly, equitably, and in alignment with learning outcomes
	in alignment with learning outcomes	(I) Determine students' difficulties in alignment with various learning outcomes
	H. Design and implement evaluations/assessments of a variety of educational programming	(B) Describe the differences and similarities between assessment and evaluation
5. Identify,	A. Engage in professional activities with attention to inclusion of multiple perspectives and demographics in order to create synergy in the midst of differences	(B) Reflect with curiosity about what can be learned from communities and cultures with attention to inclusion of multiple perspectives and demographics in order to create synergy in the midst of differences
demonstrate, and value appropriate personal	C. Function effectively on diverse, multidisciplinary teams	(I) Participate effectively on a diverse, multidisciplinary team
and professional skills, mindsets, and traits	F. Demonstrate effective leadership skills	(I) Critique leadership skills of select individuals, considering visioning, conflict and resource management, and mentoring
	H. Demonstrate empathy and cultural competence across professional interactions	(I) Demonstrate empathetic connection to the complexity of elements important to multiple cultures

Table 1: Goals, Objectives, and Outcomes impacted by ENGREDU 7189.01.

#### Course Rationale

This course helps students develop a deeper relationship between the practices of teaching and learning in engineering education through experiential based activities.

#### Course Topics

- Teaching Statements
- · Teaching Reviews
- Curriculum Development
- · Critical Feedback and Reflection
- Assessment and Evaluation

#### Course Materials:

Provided by instructor as needed.

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#### Course Schedule:

Week (Date)	Course Topics	Assignment	Class Outcome*
1	Course Overview Getting to Know Your Students		
2	Teaching Philosophies and Pedagogy	Teaching Statement	4A(A), 4E(I), 5F(I)
3	Classroom Incivilities		
4	Teaching Reviews	Instructor Evaluation of Teaching	4D(I), 5C(I)
5	Teaching Teaming		
6	Classroom Assessment Techniques	Assessment Development and Implementation	4F(I), 4H(B)
7	Topic of Choice		
8	Diversity and Inclusion	Teaching Feedback and Synthesis	4E(B), 4E(I), 5F(I)
9	Topic of Choice		
10	Crafting an Evaluation	Personalized Peer Teaching Evaluation	4G(I), 4A(a), 4D(I), 4E(I), 5F(I), 4D(A), 5C(I)
11	No Class		
12	Evaluations and Critiques	Course Element Redesign	4C(B), 4B(B), 4G(B), 3C(B), 1E(B)
13	Topic of Choice		
14	The Power of Reflection	Teaching Reflection and Plan for the Future	5A(B), 5H(I)
15	Debriefing Course Evaluation		

\* See Table 1

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- Teaching Statement 10%: See handout.
- Assessment Development and Implementation 10% (10% each): See handout.
- Teaching Feedback and Synthesis 10% (10% each): See handout.
- Personalize Peer Teaching Evaluation 20%: See handout.
- Course Element Redesign 15%: See handout.
- Teaching Reflection and Plan for the Future 15%: See handout.

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Autumn 2017

# **ENGREDU 7189.02 (1 Credit) GTA Professional Development**

Time: Wednesdays 5:30-6:30pm Classroom: HI 244G

#### **Instructor Information**

Instructor: Rachel Kajfez
 Office: HI 244

• Email: Kajfez.2@osu.edu • Office Hours: By Appointment

#### Course Description

This course supplements Graduate Teaching Assistant (GTA) content based training by exposing GTAs to instructional pedagogies. It is a practical extension of ENGREDU 7189.01. Topics include developing new teaching modules, creating training materials for fellow GTAs, furthering techniques for reflection, etc. This version of the course is designed for experienced GTAs

#### Course Goals

Following the structure of the OSU EED Graduate Curriculum, this course serves to contribute to student development as seen in Table 1. This course does not necessarily seek to fully accomplish any of the listed goals, but contributes to the objectives and outcomes within the goal as shown.

Goals:	Objectives:	Outcomes:
Students will:	Students will:	Students will be able to:
Identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs	E. Contribute to high-impact efforts to use and/or transform engineering education to best meet stakeholder needs	(B) Actively participate in an effort that leads to specific application or transformation of engineering education to meet stakeholder needs
3. Demonstrate, value, and apply engineering expertise	C. Formulate applications of engineering education to engineering practice and vice versa	(I) Design and propose a novel solution to and from engineering and engineering education settings
	A. Educate with attention to inclusion of multiple perspectives and demographics so that every student has the opportunity to learn	(A) Engage all students in a given educational experience so that every student has the opportunity to learn
4. Create, teach, and assess courses and curricula	B. Design a course or other significant educational experience founded in learning theory explicitly addressing stakeholder needs	(I) Critique an existing course syllabus using learning theory
Carrena	C. Analyze how multiple courses integrate into a curriculum	(A) Propose curricular adjustments to address gaps in achieving learning outcomes
	D. Instruct a course or other significant educational experience using appropriate and evidence- based pedagogical techniques	(A) Use appropriate and evidence-based pedagogical techniques while teaching a course

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	E. Assess and improve their own teaching through informed, inquiry-based practice	(A) Gather and apply teaching feedback
	F. Develop effective tools to evaluate learning	(A) Revise tools and learning outcomes based on experiences and student feedback
	G. Evaluate and improve student	(I) Determine students' difficulties in alignment with various learning outcomes
	learning responsibly, equitably, and in alignment with learning outcomes	(A) Develop responsible and equitable strategies to assist students in their learning that align with learning outcomes
	H. Design and implement evaluations/assessments of a variety	(I) Critique an educational program using appropriate assessment and evaluation tools
	of educational programming	(A) Develop a tool to assess and evaluate the effectiveness of an educational program
5. Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits	A. Engage in professional activities with attention to inclusion of multiple perspectives and demographics in order to create	(B) Reflect with curiosity about what can be learned from communities and cultures with attention to inclusion of multiple perspectives and demographics in order to create synergy in the midst of differences
	synergy in the midst of differences	(I) Demonstrate evidence of adjustment in attitudes and beliefs through working within and learning from diverse communities and cultures
	C. Function effectively on diverse, multidisciplinary teams	(I) Participate effectively on a diverse, multidisciplinary team
	F. Demonstrate effective leadership skills	(I) Critique leadership skills of select individuals, considering visioning, conflict and resource management, and mentoring
	H. Demonstrate empathy and cultural competence across professional interactions	(I) Demonstrate empathetic connection to the complexity of elements important to multiple cultures

Table 1: Goals, Objectives, and Outcomes impacted by ENGREDU 7189.02.

#### Course Rationale

This course helps students further explore the relationship between practices of teaching and learning in engineering through experiential based activities.

#### Course Topics

- · Teaching Philosophies
- · Teaching Reviews
- Curriculum Development
- · Critical Feedback and Reflection
- · Assessment and Evaluation

#### Course Materials:

Provided by instructor as needed.

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#### Course Schedule:

Week (Date)	Course Topics	Assignment	Class Outcome*
1	Course Overview Understanding Your Teaching Perspective	Teaching Philosophy	5A(B)
2	GTA Development Theories	Professional Development Teaching Plan	1E(B)
3	Individual Meetings		
4	Student Evaluations and Reflecting on Feedback	Student Evaluation Tool	4H(A), 4H(A), 4A(A), 4D(A)
5	No Class		
6	Individual Meetings	Critique Syllabus and Course	3C(I), 4C(A), 4B(I), 4H(I)
7	Topic of Choice		
8	Translating Teaching Experience to Other Contexts	Teaching Feedback and Synthesis	4E(A)
9	Topic of Choice		
10	Individual Meetings		
11	No Class	Student Evaluation Tool Revision	4F(A), 4H(A), 4E(A), 4G(I)
12	Topic of Choice		
13	Topic of Choice		
14	Individual Meetings	Teaching Philosophy Revision and Critique Your Own Teaching	5A(I), 5H(I), 5F(I), 4G(A), 5C(I)
15	Debriefing Course Evaluation		

#### \* See Table 1

#### Grades

The course is graded on a standard A-E scale. Course grades will be calculated accordingly:

- Participation 20%: To adequately participate in class, you must complete any required preparation work (readings, videos, etc.) and be engaged throughout each class period.
- Teaching Philosophy and Revision/Critique 20%: See handout.
- Professional Development Teaching Plan 20%: See handout.
- Student Evaluation Tool and Revision 20%: See handout.
- Peer Review of Teaching 10%: See handout.
- Teaching Feedback and Synthesis 10%: See handout.

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#### Attendance

Attendance and active participation are required to pass this course and to have an impact on your teaching in a meaningful way. You may have up to two excused absences in this version of the course and still pass the class. If you will be absent, you must notify the instructor as soon as possible. Excused absences include being sick, attending a conference, having a job interview, etc. Unexcused absences are not acceptable.

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Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

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This service is free and confidential.

Spring 2017

# ENGREDU 7780 (3 Credit) Engineering Education Research Methods

Time: Day #:## - #:##pm Classroom: HI ###

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#### Instructor Information

•	Instructor. Name	•	Office. HI ###
•	Email:	•	Office Hours: By Appointment

#### Course Description (400 character limit)

This course is designed to prepare students for productive research in engineering education throughout their graduate experience and professional careers. Research methods are highlighted and explored including quantitative, qualitative, and mixed methods.

#### Course Goals

Following the structure of the OSU EED Graduate Curriculum, this course serves to contribute to student development as seen in Table #. This course does not necessarily seek to fully accomplish any of the listed goals, but contributes to the objectives and outcomes within the goal as shown.

Goals:	Objectives:	Outcomes:
Students will:	Students will:	Students will be able to:
1.identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs	1A. Engage critical issues in the field with attention to	1.A.(B) Identify several of the contemporary educational issues with attention to inclusion of multiple perspectives and demographics
	inclusion of multiple perspectives	1.A.(I) Discuss the main perspectives of contemporary educational issues and describe impact on stakeholders with attention to inclusion of multiple perspectives and demographics.
	1.E. Contribute to high- impact efforts to use and/or transform engineering education to best meet stakeholder needs	1.E.(B) Actively participate in an effort that leads to specific application or transformation of engineering education to meet stakeholder needs.
	2A. Research with attention to	<ol> <li>A.(B) Identify ways that diverse populations may be impacted negatively and positively by research.</li> </ol>
2. design, conduct, and critique research in engineering education	inclusion of multiple perspectives and demographics so that research outcomes are more universally relevant	2.A.(I) Reflect critically on research across various fields that targets diverse audiences.
	2.B. Demonstrate awareness of broadly applicable research opportunities, funding, resources, and communications (internal and external to the field)	2.B.(B) Identify current research opportunities and communications within and outside of engineering education.

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	2C. Construct appropriate research questions in engineering education that address stakeholder needs and advance the field	2.C.(B) Identify appropriate, researchable questions considering relevant literature that address stakeholder needs and advance the field.      2.C.(I) Appraise whether research questions appropriately align with an overall research study design, address stakeholder needs, and advance the field and contributes to larger body of knowledge in engineering education.      2.C.(A) Develop sound engineering education research questions that address stakeholder needs and advance the field
	2.D. Design research that uses appropriate and evidence-based methods	2.D.(B) Define qualitative, quantitative, and mixed methods commonly used within and outside of engineering education research.
	<b>A</b> F. G. H	2.D.(I) Select appropriate methods to research questions.
	2.E. Collect, analyze, and interpret data using appropriate techniques	2.E.(B) Collect, analyze, and interpret data within a given set of research parameters
	2F. Communicate results of research efforts in traditional and non-traditional forms	2.F.(B) Differentiate among and select types of dissemination venues for research.
	2G. Critique the quality of engineering education research studies of various types presented in different	2.G.(B) Identify quality indicators of research.
	forms	2.G.(I) Evaluate the quality of a selected scholarly effort.
	2H. Analyze how a broad array of research projects integrate into the field.	2.H.(B) Recognize prior research conducted in an area of interest.
	2.I. Structure, manage, and implement research projects.	2.I.(B) Define the aspects of research project management.
	implement research projects.	2.I.(I) Develop a structured plan to manage a research study for implementation.
5. identify, demonstrate.	5.C. Function effectively on diverse, multidisciplinary teams	5.C.(B) Discuss the elements of effective teamwork and importance of diverse, multidisciplinary teams.
and value appropriate personal and professional skills, mindsets, and traits	5.D. Communicate effectively with a range of audiences	5.D.(B) Explain the appropriate communication strategies to use with a range of audiences using multiple modes and media.
	using multiple modes and media	5.D.(I) Critique specific communications considering a range of potential audiences.
	5.E. Recognize, analyze, and equitably engage with professional ethical dilemmas	5.E.(B) Recognize complex, multi-layered professional ethical dilemmas.

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<ol><li>5.G. Apply appropriate principles to manage teams</li></ol>	5.G.(B) Describe the project management process and primary constraints including scope, schedule, budget, and
and projects	quality.

Table #: Goals, Objectives, and Outcomes impacted by ENGREDU 6100.

#### Course Rationale (150 character limit)

This course prepares students to perform research by using research methods appropriate to the field of engineering education..

#### Course Topics (Learning Objectives)

- Teaching and Learning in engineering education
- Curriculum Development
- Research in Engineering Education
- · Change in Engineering Education
- · Engineering and Society

#### Course Materials (Representative Textbook(s)):

Provided by instructor as needed.

Week (Date)	Course Topics	Assignment	Class Outcome*
1	What are you curious about? Research Process		
2	What is a research question? (scope, focus, etc.); Frameworks and Lens (theory)	Research Statement	4A(A), 4E(I), 5F(I)
3	Methods		
4	Presentation Skills; Methods	Methods Presentation	4D(I), 5C(I)
5	Methods		
6	Lit Reviews; How to find and manage and read papers; Information Literacy Management	Assessment Development and Implementation	4F(I), 4H(B)

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7	IRB; Collecting Data	Mini-Lit Review	
8	Finding; Proposals	Teaching Feedback and Synthesis	4E(B), 4E(I), 5F(I)
9	Validity and Reliability		
10	Analysis Resources; Data Management	Personalized Peer Teaching Evaluation	4G(I), 4A(a), 4D(I), 4E(I), 5F(I), 4D(A), 5C(I)
11	Effective Meetings		
12	Optimizing Expert's Time	Course Element Redesign	4C(B), 4B(B), 4G(B), 3C(B), 1E(B)
13	Presentation skills; Presenting your work (posters and various papers); Draft poster/ practice session		
14	Poster session; Research wrap up	Teaching Reflection and Plan for the Future	5A(B), 5H(I)
15			

\* See Table 1

#### Grades

The course is graded on a standard A-E scale. Course grades will be calculated accordingly:

- Participation 20%: To adequately participate in class, you must complete any required preparation work (readings, videos, etc.) and be engaged throughout each class period.
- Interest in Engineering Education Statement 10%: See handout.
- Group Presentation/Discussion on Topic of the Day 20%: See handout.
- Synthesis Essays 30% (10% each): See handout.
- Visualization 20%: See handout.

#### Attendance

Attendance and active participation are required to pass this course and to have an impact on your teaching in a meaningful way. You may have up to two excused absences in this version of

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the course and still pass the class. If you will be absent, you must notify the instructor as soon as possible. Excused absences include being sick, attending a conference, having a job interview, etc. Unexcused absences are not acceptable.

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Spring 2017

# **ENGREDU 7881 (3 Credit) Engineering Education Seminar**

Time: Day #:## - #:## pm Classroom: HI ###

- 000 111 11111

#### Instructor Information

•	Instructor. Name	•	Office. HI ###
•	Email:	•	Office Hours: By Appointment

#### Course Description (400 character limit)

This course is designed to provide students with the ability to maintain contemporary knowledge of the field of engineering education, understand how to communicate within the field, provide exposure to different stakeholders, and build community among engineering educators.

#### Course Goals

Following the structure of the OSU EED Graduate Curriculum, this course serves to contribute to student development as seen in Table #. This course does not necessarily seek to fully accomplish any of the listed goals, but contributes to the objectives and outcomes within the goal as shown.

Goals:	Objectives:	Outcomes:
Students will:	Students will:	Students will be able to:
	1A. Engage critical issues in the field with attention to inclusion of multiple perspectives	1.A.(I) Discuss the main perspectives of contemporary educational issues and describe impact on stakeholders with attention to inclusion of multiple perspectives and demographics.
1. Identify, discuss, and address critical issues facing engineering	1.B. Analyze the history and foundations of the education of engineers and the discipline of engineering education in US and international contexts	1.B.(I) Discuss key historical and foundational aspects of engineering education related to contemporary issues in US and international contexts.
education in alignment with stakeholder needs	1.C. Characterize potential stakeholders and design appropriate engagement strategies	(I) Explain relationships among stakeholders and contemporary educational issues.
	1.D. Identify and interpret stakeholder needs to develop action plans	(I) Interpret stakeholder needs in relationship to engineering education.
2. Design, conduct, and critique	2A. Research with attention to inclusion of multiple perspectives and demographics so that research outcomes are more universally relevant	2.A.(I) Reflect critically on research across various fields that targets diverse audiences.
research in engineering education	2.B. Demonstrate awareness of broadly applicable research opportunities, funding, resources, and communications (internal and	2.B.(B) Identify current research opportunities and communications within and outside of engineering education.

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	external to the field)	
	2.C. Construct appropriate     research questions in     engineering education that     address stakeholder needs and     advance the field	2.C.(I) Appraise whether research questions appropriately align with an overall research study design, address stakeholder needs, and advance the field and contributes to larger body of knowledge in engineering education.
	2.G. Critique the quality of engineering education research studies of various types presented in different forms	2.G.(I) Evaluate the quality of a selected scholarly effort.
	2.H. Analyze how a broad array of research projects integrate into the field.	2.H.(I) Determine how to make connections across research themes to identify gaps in literature.
	5.A. Engage in professional activities with attention to inclusion of multiple perspectives and demographics in order to create synergy in the midst of differences.	5.A.(I) Discuss the elements of effective teamwork and importance of diverse, multidisciplinary teams.
	5.B. Demonstrate a mindset that values curiosity and questioning, finds and leverages connections across a wide range of ideas, and creates positive societal value	5.B.(B) Explain the appropriate communication strategies to use with a range of audiences using multiple modes and media.
5. Identify, demonstrate,	5 D. Communicate officials	(B) Explain the appropriate communication strategies to use with a range of audiences using multiple modes and media.
and value appropriate personal and	5.D. Communicate effectively with a range of audiences using multiple modes and media	5.D.(I) Critique specific communications considering a range of potential audiences.
professional skills, mindsets, and traits	manapre modes and modes	(A) Disseminate/publish appropriate to target audience(s) using multiple modes and media.
and traits	5.E. Recognize, analyze, and equitably engage with professional ethical dilemmas	5.E.(B) Recognize complex, multi-layered professional ethical dilemmas.
	5.I. Prepare professional documents and demonstrate effective communication skills appropriate to a variety of job search and career advancement processes	5.L(B) Describe documents prepared regularly in professional career contexts and identify quality indicators of each.
	5.J. Value and demonstrate commitment to continuing education and lifelong learning	5.J.(B) Describe multiple continuing education learning experiences explaining the value of lifelong learning.

<u>Table #:</u> Goals, Objectives, and Outcomes impacted by ENGREDU 6100.

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#### Course Rationale (150 character limit)

This course prepares students to be conversant with contemporary issues and topics within the field of engineering education and associated disciplines.

#### Course Topics (Learning Objectives)

- · Contemporary issues and dialogs of Engineering Education
- · Journal Review and Discussion
- Communication within Engineering Education
- · Professional Development
- · Research in Engineering Education
- · Research outside of Engineering Education and its relation to our field

#### Course Materials (Representative Textbook(s)):

Provided by instructor as needed.

Week (Date)	Course Topics	Assignment	Class Outcome*
1	Introduction to Seminar/Setting the Stage	Reflections on Readings	
2	Research Presentation in Engineering Education (EED Member)		2B (B)
3	Teaching Presentation	Reflections on Readings	1A (I)
4	Teaching-Related Discussion		1A (I)
5	Research Presentation - Non Engineering Education	Reflections on Readings	2A (I), 2B (B)
6			
7	Journal Article Discussion	On-line Essays	
8	Professional Development Presentation		5J (B), 5I(B)
9	Panel Discussion	Reflections on Presentation	2B (I), 2D (I), 5E (A)
10	Professional Development Mini-Workshop		5A (I), 5D (B)
11	Research Presentation in Engineering Education (Non EED Member)		2A (I), 2B (B)

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12	Student Facilitated Discussion	Reflections on Presentation	1C (I), 1D (I), 5A (I)
13	Student Team Presentations		1C (I), 1D (I), 5A (I), 5B (A)
14		Reflections on Presentation	1C (I), 1D (I), 5A (I), 5B (A)
15			5B (A), 5D (I), 5D (A)

<sup>\*</sup> See Table 1

#### Grades

The course is graded on a standard A-E scale. Course grades will be calculated accordingly:

- Participation 40%: To adequately participate in class, you must complete any required preparation work (readings, videos, etc.) and be engaged throughout each class period.
- Reflections on Engineering Education Statement 30%: See handout.
- Group Presentation/Discussion on Topic of the Day 20% (10% each): See handout.
- Synthesis Essays 10%: See handout.

#### Attendance

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#### Information for Distressed Students

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This service is free and confidential.

Spring 2017

# ENGREDU 7900 (3 Credit) Career Exploration and Professional Development

Time: Day #:## - #:##pm Classroom: HI ###

#### Instructor Information

•	Instructor: Name	•	Office: HI ###
•	Email:	•	Office Hours: By Appointment

#### Course Description (400 character limit)

This course is designed to prepare students for future careers and professional advancement at universities, colleges, community colleges, and technical colleges (both in tenure-track and clinical faculty appointments), government agencies, private industry, corporate training organizations, non-profits, and high schools challenged with incorporating engineering design into core science standards.

#### Course Goals

Following the structure of the OSU EED Graduate Curriculum, this course serves to contribute to student development as seen in Table #1. This course does not necessarily seek to fully accomplish any of the listed goals, but contributes to the objectives and outcomes within the goal as shown.

Goals:	Objectives:	Outcomes:
Students will:	Students will:	Students will be able to:
	1A. Engage critical issues in the field with attention to inclusion of multiple perspectives	1.A.(I) Discuss the main perspectives of contemporary educational issues and describe impact on stakeholders with attention to inclusion of multiple perspectives and demographics.      1.B.(I) Discuss key historical and foundational
1. Identify, discuss, and address critical issues facing engineering education in	1.B. Analyze the history and foundations of the education of engineers and the discipline of engineering education in US and international contexts	aspects of engineering education related to contemporary issues in US and international contexts.  1.B.(A) Synthesize relevant educational history and foundations of critical contemporary issues in US and international contexts.
alignment with stakeholder needs	1.C. Characterize potential	1.C.(B) Identify primary stakeholders of engineering education.
	stakeholders and design appropriate engagement strategies	1.C.(I) Explain relationships among stakeholders and contemporary educational issues.
		1.C.(A) Define appropriate engagement strategies with stakeholders.
	1.D. Identify and interpret stakeholder needs to develop	1.D.(B) Describe several relevant stakeholder needs.

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	action plans	1.D.(I) Interpret stakeholder needs in relationship to engineering education.
		1.D.(A) Create an action plan to address one or more stakeholder needs.
	2.B. Demonstrate awareness of broadly applicable research	2.B.(I) Distinguish between types of resources and funding available and the corresponding reporting expectations.
2. Design, conduct, and critique research in	opportunities, funding, resources, and communications (internal and external to the field)	2.B.(A) Select appropriate research opportunities, funding, resources, and communications that aligns with one's research interests and expertise.
engineering education	2.F. Communicate results of research efforts in traditional and non-traditional forms	2.F.(B) Differentiate among and select types of dissemination venues for research.
	<ol> <li>2.H. Analyze how a broad array of research projects integrate into the field.</li> </ol>	2.H.(A) Propose a research agenda informed from a synthesis of existing literature and research across multiple fields.
3. Demonstrate, value, and	3.D. Identify pathways for lifelong learning in	3.D.(I) Propose a professional development agenda illustrating pathways for lifelong learning in engineering.
apply engineering expertise	engineering	3.D.(A) Demonstrate engagement within opportunities for lifelong learning in engineering.
5. Identify,	5.A. Engage in professional activities with attention to inclusion of multiple perspectives and demographics in order to create synergy in the midst of differences.	5.A.(B) Reflect with curiosity about what can be learned from communities and cultures with attention to inclusion of multiple perspectives and demographics in order to create synergy in the midst of differences.
demonstrate, and value appropriate	5.C. Function effectively on diverse, multidisciplinary teams	5.C.(B) Discuss the elements of effective teamwork and importance of diverse, multidisciplinary teams.
personal and professional	5.D. Communicate effectively with a range of audiences	5.D.(I) Critique specific communications considering a range of potential audiences.
skills, mindsets, and traits	using multiple modes and media	5.D.(A) Disseminate/publish appropriate to target audience(s) using multiple modes and media.
	5.F. Demonstrate effective leadership skills	5.F.(B) Discuss the elements of effective leadership skills, including self-awareness, resource management, and motivating others.  5.F.(I) Critique leadership skills of select individuals, considering visioning, conflict and resource management, and mentoring.

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5.G. Apply appropriate principles to manage teams and projects	5.G.(B) Describe the project management process and primary constraints including scope, schedule, budget, and quality.      5.G.(I) Critique project management from a variety of sectors including education, development, and industry.
5.H. Demonstrate empathy and cultural competence across professional interactions	5.H.(A) Promote empathy and cultural competence across professional interactions.
5.I. Prepare professional documents and demonstrate effective communication skills appropriate to a variety of job search and career advancement processes	5.I.(B) Describe documents prepared regularly in professional career contexts and identify quality indicators of each.  5.I.(I) Prepare documents and demonstrate effective communication skills appropriate to a variety of job search and career advancement processes.  5.I.(A) Solicit feedback from multiple sources and revise professional documents appropriate to career goals.
5.J. Value and demonstrate commitment to continuing education and lifelong learning	5.J.(B) Describe multiple continuing education learning experiences explaining the value of lifelong learning.      5.J.(I) Develop and pursue plans for lifelong learning to support career goals.

Table 1: Goals, Objectives, and Outcomes impacted by ENGREDU 7900.

#### Course Rationale (150 character limit)

This course helps students prepare for successfully engaging in engineering education careers across a variety of institutions and organizations.

#### Course Topics (Learning Objectives)

- · EED Stakeholders
- · Career Options and Job Search Dynamics
- Teamwork
- · Project Management
- Empathy
- · Professional Development

#### Course Materials (Representative Textbook(s)):

Provided by instructor as needed.

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Week (Date)	Course Topics	Assignment	Class Outcome*
1	Critical Issues in Engineering Education		
2	Inclusion of Multiple Perspectives Social Skills/Relationship Building	Reflections on Readings	1A(I), 1B(I), 1B(A), 5A(B)
3	EED Stakeholders Leveraging Your Network	Stakeholder Analysis Memo	1C(B), 1C(I), 1C(A), 1D(B), 1D(I), 1D(A)
4	Faculty Careers and Options	LinkedIn Profile Cover Letter	2B(I), 2B(A)
5	Academic Job Search	Academic CV and Statements of Research/Teaching	2F(B), 2H(A), 5D(B), 5I(B)
6	Industry Careers and Options	ABET, TUEE Analysis Memo	3D(I)
7	Industry Job Search	Industry Resume	3D(A), 5D(I), 5I(B)
8	Government and Non-Commercial Careers and Options	Government Application	5D(A),5C(B)
9	Teamwork	Professional Portfolio	5C(B), 5F(B), 5F(I)
10	Project Management	Job Postings and Search Analysis	5G(B), 5G(I)
11	Empathy in Engineering Education	Career Plan	5H(A)
12	Professional Documents for Job Search	CV / Resume / Application	5I(I), 5I(A)
13	Professional Development Options	Career Plan	5J(B)
14	Entrepreneurial and Intrapreneurial Options	Professional e-Portfolio	5J(I)
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\* See Table 1

#### Grades

The course is graded on a standard A-E scale. Course grades will be calculated accordingly:

- Participation 20%: To adequately participate in class, you must complete any required preparation work (readings, videos, etc.) and be engaged throughout each class period.
- Interest in Engineering Education Statement 10%: See handout.
- Group Presentation/Discussion on Topic of the Day 20% (10% each): See handout.
- Synthesis Essays 30% (10% each): See handout.
- Visualization 20%: See handout.

#### Attendance

Attendance and active participation are required to pass this course and to have an impact on your teaching in a meaningful way. You may have up to two excused absences in this version of the course and still pass the class. If you will be absent, you must notify the instructor as soon as possible. Excused absences include being sick, attending a conference, having a job interview, etc. Unexcused absences are not acceptable.

#### Students with Disabilities

Any student who feels s/he may need an accommodation based on the impact of a disability should contact the instructor privately to discuss your specific needs. Please contact Student Life Disability Services at 614-292-3307 in room 150 Pomerene Hall to coordinate reasonable accommodations for students with documented disabilities.

#### Carmen

Carmen is OSU's course management system. Please note that we will be using the Canvas version of Carmen. Carmen uses include:

- Check the "News" items for any course-related or on-campus activities announcements.
- Check your grades from the "Grades" link on the main toolbar in Carmen.
- Access materials for the course from the "Content" link on the main toolbar.
- Access evaluation tools (i.e., surveys, quizzes, etc.) from the "Activities" link on the main toolbar.

Carmen may be accessed at <a href="http://carmen.osu.edu">http://carmen.osu.edu</a>. For troubleshooting, call 688-HELP or go to <a href="https://resourcecenter.odee.osu.edu/canvas/getting-started-canvas-students">https://resourcecenter.odee.osu.edu/canvas/getting-started-canvas-students</a>.

#### Academic Misconduct

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's Code of Student Conduct, and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow

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the rules and guidelines established in the University's Code of Student Conduct and this syllabus may constitute academic misconduct.

The Ohio State University's Code of Student Conduct (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the University, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's Code of Student Conduct is never considered an excuse for academic misconduct, so it is recommended that you review the Code of Student Conduct and, specifically, the sections dealing with academic misconduct.

If your instructor suspects that a student has committed academic misconduct in this course, he/she is obligated by University Rules to report suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact your instructor.

#### Ohio State Sexual Harassment Policy

The University administration, faculty, staff, student employees, and volunteers are responsible for assuring that the University maintains an environment for work and study free from sexual harassment. Sexual harassment is unlawful and impedes the realization of the University's mission of distinction in education, scholarship, and service. Sexual harassment violates the dignity of individuals and will not be tolerated. The University community seeks to eliminate sexual harassment through education and by encouraging faculty, staff, student employees, and volunteers to report concerns or complaints. Prompt corrective measures will be taken to stop sexual harassment whenever it occurs. Source: http://hr.osu.edu/policy/policy/15.pdf

#### Student Permission for Program Publicity

During your participation in this course, photographs, printed material, and videotapes may be made for the purpose of informing the university community and the general public about activities in the college. Student images in the above media may be used to promote college programs and to make public announcements of student accomplishments and those of other students. If you do not wish for your image to be used, please let your instructor know.

#### Information for Distressed Students

A recent American College Health Survey found stress, sleep problems, anxiety, depression, interpersonal concerns, death of a significant other, and alcohol use among the top ten health impediments to academic performance.

Students experiencing personal problems or situational crises during the quarter are encouraged to contact the OSU Counseling and Consultation Service (614-292-5766; www.ccs.osu.edu) for assistance, support and advocacy.

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Proposal for PhD in Engineering Education

# Assessment: Assessment Unit Planning



Proposed PhD in Engineering Education

#### **Program - Engineering Education (PH)**

#### Outcome: Inclusive engagement with critical issues

1. A. Engage critical issues in the field with attention to inclusion of multiple perspectives and demographics

Outcome Status: Inactive

Planned Assessment Year: Every Year
Outcome Category (Primary): Critical Thinking
Outcome Category (Other): Diversity

#### Assessment Methods

**Direct - Other classroom assessment methods -** ENGR 6200 - Learning theory, pedagogy and assessment course - discussion worksheet on Pedagogy, Epistemology, and Metacognition as well as midterm exam (Inactive)

**Direct - Other classroom assessment methods -** ENGR 6200 - Learning theory, pedagogy and assessment course - discussion worksheet on Pedagogy, Epistemology, and Metacognition as well as midterm exam (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs

#### **Outcome: History and Foundations**

1.B. Analyze the history and foundations of the education of engineers and the discipline of engineering education in the US and international contexts

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Global Perspectives/Issues Outcome Category (Other): Historical Perspective

#### Assessment Methods

**Direct - Writing assignment -** ENGR 6100 - Foundations and the Field of Engineering Education – written reflections on reading (Active)

#### Related Goals

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### **Program - Engineering Education (PH)**

Program - Engineering Education (PH)

Skill-Cognitive - Identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs

#### Outcome: Characterize Potential Stakeholders

1.C. Characterize potential stakeholders and design appropriate engagement strategies

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Communication-Oral

Outcome Category (Other): Interaction with Selected Audiences

#### Assessment Methods

Direct - Writing assignment - ENGR 6200 - Learning theory, pedagogy and assessment course - course midterm exam

(Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs

#### Outcome: Identify and Interpret Stakeholder Needs

1. D. Identify and interpret stakeholder needs to develop action plans

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Cultural Awareness

Outcome Category (Other): Interaction with Selected Audiences

#### Assessment Methods

**Direct - Writing assignment -** ENGR 6100 - Foundations and the Field of Engineering Education – written reflections on reading (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs

#### Outcome: Contribute to high impact efforts

1. E. Contribute to high impact efforts to use and/or transform engineering education to best meet stakeholder needs

Outcome Status: Inactive

Planned Assessment Year: Every Year
Outcome Category (Primary): Problem Solving
Outcome Category (Other): Integration and Synthesis

#### Assessment Methods

Direct - Graduate - Dissertation - Oral presentation/defense - engineering education dissertation defense (Active)

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Proposal for PhD in Engineering Education

### **Program - Engineering Education (PH)**

Program - Engineering Education (PH)

Skill-Cognitive - Identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs

#### Outcome: Research with attention to inclusion and diversity

2. A. Research with attention to inclusion of multiple perspectives and demographics so that research outcomes are more universally relevant

Outcome Status: Inactive

Planned Assessment Year: Every Year Outcome Category (Primary): Diversity

Outcome Category (Other): Methods / Modes of Inquiry

#### Assessment Methods

Direct - Student Research - engineering education dissertation research (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Design, conduct, and critique research in engineering education

#### Outcome: Demonstrate awareness of broadly applicable research

2. B. Demonstrate awareness of broadly applicable research opportunities, funding, resources, and communications (internal and external to the field)

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Information Literacy Outcome Category (Other): Knowledge-Specialized

#### Assessment Methods

**Direct - Writing assignment -** ENGR 7900 - Professional Development in Engineering Education – career plan and statement writing assignment (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Design, conduct, and critique research in engineering education

### Outcome: Construct Appropriate Research Questions

2. C. Construct appropriate research questions in engineering education that address stakeholder needs and advance the field

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Methods / Modes of Inquiry

#### Assessment Methods

Direct - Graduate - Dissertation - Written document - engineering education dissertation written document (Active)

#### Related Goals

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# **Program - Engineering Education (PH)**

Program - Engineering Education (PH)

Skill-Cognitive - Design, conduct, and critique research in engineering education

# Outcome: Design research

2. D. Design research that uses appropriate and evidence-based methods

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Methods / Modes of Inquiry

#### Assessment Methods

**Direct - Other classroom assessment methods -** ENGR 7780 - Research Methods in Engineering Education – course term project (Active)

# Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Design, conduct, and critique research in engineering education

# Outcome: Collect, Analyze, and Interpret Data

2. E. Collect, analyze, and interpret data using appropriate techniques

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Analytical Reasoning/Qualitative Outcome Category (Other): Analytical Reasoning/Quantitative

#### Assessment Methods

Direct - Graduate - Dissertation - Oral presentation/defense - engineering education dissertation defense (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Design, conduct, and critique research in engineering education

### Outcome: Communicate Research Results

2. F. Communicate results of research efforts in traditional and non-traditional forms

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Communication-Oral

Outcome Category (Other): Communication-Visual, Communication-Written

#### Assessment Methods

Direct - Publications - engineering education dissertation research (Active)

#### Related Goals

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# **Program - Engineering Education (PH)**

Program - Engineering Education (PH)

Skill-Cognitive - Design, conduct, and critique research in engineering education

# Outcome: Critique the Quality of Engineering Education Research

2. G. Critique the quality of engineering education research studies of various types presented in different forms

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Analytical Reasoning/Qualitative

Outcome Category (Other): Analytical Reasoning/Quantitative, Critical Thinking

#### Assessment Methods

**Direct - Other classroom assessment methods -** ENGR 7881 - Engineering Education Seminar – discussion, interaction, and reflection with multiple stakeholders and audiences within seminar series (Active)

### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Design, conduct, and critique research in engineering education

# Outcome: Analyze How Research Integrates into Field

2. H. Analyze how a broad array of research projects integrate into the field

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Integration and Synthesis

#### Assessment Methods

**Direct - Other classroom assessment methods -** ENGR 7881 - Engineering Education Seminar – discussion, interaction, and reflection with multiple stakeholders and audiences within seminar series (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Design, conduct, and critique research in engineering education

# Outcome: Manage Research Projects

2. I. Structure, manage, and implement research projects

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Clinical Skills/Experience
Outcome Category (Other): Generalization and Application

#### Assessment Methods

Direct - Graduate - Thesis/Comprehensive Examination - Written document - engineering education dissertation written

document (Active)

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# **Program - Engineering Education (PH)**

Program - Engineering Education (PH)

Skill-Cognitive - Design, conduct, and critique research in engineering education

# Outcome: Apply Engineering Mindset to Solve Problems

3. A. Apply an engineering mindset to devise solutions to complex problems with attention to inclusion of multiple perspectives and demographics

Outcome Status: Inactive

Planned Assessment Year: Every Year
Outcome Category (Primary): Problem Solving

### Assessment Methods

Direct - Portfolio - Engineering portfolio ± MEng or equivalent (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Demonstrate, value, and apply engineering expertise

# **Outcome: Demonstrate Engineering Competence**

3. B. Demonstrate engineering competence in at least one specific domain.

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Knowledge-Specialized

Outcome Category (Other): Professionalism (default for specialized skills and practices, e.g., patient care)

#### Assessment Methods

Direct - Portfolio - Engineering portfolio ± MEng or equivalent (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Demonstrate, value, and apply engineering expertise

# **Outcome: Formulate Applications to Engineering Practice**

3. C. Formulate applications of engineering education to engineering practice and vice versa

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Generalization and Application

#### Assessment Methods

Direct - Practicum/fieldwork - ENGR 7189.01 - GTA Preparation and Support - teaching practicum (Active)

### Related Goals

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# **Program - Engineering Education (PH)**

Program - Engineering Education (PH)

Skill-Cognitive - Demonstrate, value, and apply engineering expertise

# Outcome: Identify Pathways to Lifelong Learning

3. D. Identify pathways for lifelong learning in engineering

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Continuous Learning and Adaptability

#### Assessment Methods

**Direct - Other culminating project -** ENGR 7900 - Professional Development in Engineering Education – professional e-portfolio (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Demonstrate, value, and apply engineering expertise

### Outcome: Educate with Attention to Inclusion

4. A. Educate with attention to inclusion of multiple perspectives and demographics so that every student has the opportunity to learn

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Communication-Instructional Outcome Category (Other): Cultural Awareness, Diversity

#### Assessment Methods

 $\textbf{Direct - Writing assignment -} \ \textbf{ENGR 6200 -} \ \textbf{Learning theory, pedagogy and assessment course-written reflections on}$ 

reading (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Create, teach, and assess courses and curricula

# Outcome: Design a Course Founded in Learning Theory

4. B. Design a course or other significant educational experience founded in learning theory explicitly addressing stakeholder needs

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Communication-Instructional Outcome Category (Other): Knowledge-Specialized

#### Assessment Methods

Direct - Practicum/fieldwork - ENGR 7189.02 - GTA Professional Development - teaching practicum (Active)

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# **Program - Engineering Education (PH)**

Program - Engineering Education (PH)

Skill-Cognitive - Create, teach, and assess courses and curricula

# Outcome: Analyze Courses and Curriculum

4. C. Analyze how multiple courses integrate into a curriculum

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Communication-Instructional Outcome Category (Other): Integration and Synthesis

#### Assessment Methods

Direct - Writing assignment - ENGR 6200 - Learning theory, pedagogy and assessment course - written reflections on

reading (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Create, teach, and assess courses and curricula

# Outcome: Instruct a Course

4. D. Instruct a course or other significant educational experience using appropriate and evidence-based pedagogical techniques

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Clinical Skills/Experience Outcome Category (Other): Communication-Instructional

#### Assessment Methods

Direct - Practicum/fieldwork - ENGR 7189.01 - GTA Preparation and Support - teaching practicum (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Create, teach, and assess courses and curricula

# Outcome: Assess and Improve Own Teaching

4. E. Assess and improve their own teaching through informed, inquiry-based practice

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Continuous Learning and Adaptability

#### Assessment Methods

Direct - Practicum/fieldwork - ENGR 7189.01 - GTA Preparation and Support - teaching practicum

(Active)

#### Related Goals

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# **Program - Engineering Education (PH)**

Program - Engineering Education (PH)

Skill-Cognitive - Create, teach, and assess courses and curricula

# Outcome: Develop Evaluation Tools

4. F. Develop effective tools to evaluate learning

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Integration and Synthesis

#### Assessment Methods

Direct - Use of Rubrics - ENGR 6200 - Learning theory, pedagogy and assessment course - rubric development (Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Create, teach, and assess courses and curricula

# Outcome: Evaluate and Improve Student Learning

4. G. Evaluate and improve student learning responsibly, equitably, and in alignment with learning outcomes

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Analytical Reasoning/Qualitative

Outcome Category (Other): Analytical Reasoning/Quantitative, Continuous Learning and Adaptability

#### Assessment Methods

Direct - Other classroom assessment methods - ENGR~7189.02-GTA~Professional~Development-teaching~practicum

(Active)

#### Related Goals

Program - Engineering Education (PH)

Skill-Cognitive - Create, teach, and assess courses and curricula

# Outcome: Design and Implement Assessments

4. H. Design and implement evaluation/assessments of a variety of educational programming

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Clinical Skills/Experience
Outcome Category (Other): Generalization and Application

#### Assessment Methods

Direct - Other classroom assessment methods - ENGR 7189.02 - GTA Professional Development – teaching practicum (Active)

#### Related Goals

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# **Program - Engineering Education (PH)**

Program - Engineering Education (PH)

Skill-Cognitive - Create, teach, and assess courses and curricula

# Outcome: Engage in Professional Activities

5. A. Engage in professional activities with attention to inclusion of multiple perspectives and demographics in order to create synergy in the midst of differences.

Outcome Status: Inactive

Planned Assessment Year: Every Year Outcome Category (Primary): Diversity

Outcome Category (Other): Professionalism (default for specialized skills and practices, e.g., patient care)

#### Related Goals

Program - Engineering Education (PH)

Perspectives/Attitudes - Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits

# Outcome: Demonstrate a Mindset that Values Curiosity and Questioning

5. B. Demonstrate a mindset that values curiosity and questioning, finds and leverages connections across a wide range of ideas, and creates positive societal value

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Continuous Learning and Adaptability

Outcome Category (Other): Creative Thinking

#### Assessment Methods

**Direct - Graduate - Candidacy/Qualifying Examination - Written document -** engineering education oral candidacy exam (Active)

#### Related Goals

Program - Engineering Education (PH)

Perspectives/Attitudes - Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits

### Outcome: Function on Diverse Teams

5. C. Function effectively on diverse, multidisciplinary teams

Outcome Status: Inactive

Planned Assessment Year: Every Year Outcome Category (Primary): Teamwork

#### Assessment Methods

Direct - Other culminating project - ENGR 7189.01 - GTA Preparation and Support - teaching practicum

(Active)

#### Related Goals

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# **Program - Engineering Education (PH)**

Program - Engineering Education (PH)

Perspectives/Attitudes - Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits

# **Outcome: Communicate Effectively**

5. D. Communicate effectively with a range of audiences using multiple modes and media

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Communication-Oral

Outcome Category (Other): Communication-Visual, Communication-Written

#### Assessment Methods

Direct - Other classroom assessment methods - ENGR 7881 - Engineering Education Seminar - discussion, interaction, and

reflection with multiple stakeholders and audiences within seminar series

(Active)

#### Related Goals

Program - Engineering Education (PH)

Perspectives/Attitudes - Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits

### Outcome: Handle Ethical Dilemmas

5. E. Recognize, analyze, and equitably engage with professional ethical dilemmas

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Ethics/Moral Reasoning

Outcome Category (Other): Professionalism (default for specialized skills and practices, e.g., patient care)

#### Assessment Methods

Direct - Graduate - Candidacy/Qualifying Examination - Written document - engineering education candidacy exam

(Active)

#### Related Goals

Program - Engineering Education (PH)

Perspectives/Attitudes - Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits

# Outcome: Leadership

5. F. Demonstrate effective leadership skills

Outcome Status: Inactive

Planned Assessment Year: Every Year Outcome Category (Other): Leadership

#### Assessment Methods

Direct - Writing assignment - ENGR 7900 - Professional Development in Engineering Education - professional portfolio

(Active)

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# **Program - Engineering Education (PH)**

#### Related Goals

Program - Engineering Education (PH)

Perspectives/Attitudes - Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits

# **Outcome: Teamwork and Project Management**

5.G. Apply appropriate principles to manage teams and projects

Outcome Status: Inactive

Planned Assessment Year: Every Year
Outcome Category (Primary): Teamwork

Outcome Category (Other): Professionalism (default for specialized skills and practices, e.g., patient care)

#### Related Goals

Program - Engineering Education (PH)

Perspectives/Attitudes - Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits

# Outcome: Empathy and Cultural Competence

5. H. Demonstrate empathy and cultural competence across professional interactions

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Cultural Awareness

Outcome Category (Other): Professionalism (default for specialized skills and practices, e.g., patient care)

#### Assessment Methods

Direct - Graduate - Candidacy/Qualifying Examination - Written document - engineering education oral candidacy exam

(Active)

#### Related Goals

Program - Engineering Education (PH)

Perspectives/Attitudes - Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits

### Outcome: Job Search and Career Advancement Skills

5. I. Prepare professional documents and demonstrate effective communication skills appropriate to a variety of job search and career advancement processes

Outcome Status: Inactive

Planned Assessment Year: Every Year
Outcome Category (Primary): Professionalism

Outcome Category (Other): Communication-Oral, Communication-Visual, Communication-Written

#### Assessment Methods

 $\textbf{Direct - Writing assignment -} \ ENGR\ 7900 - Professional\ Development\ in\ Engineering\ Education - cv\ /\ resume\ /\ application$ 

development (Active)

#### Related Goals

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# **Program - Engineering Education (PH)**

Program - Engineering Education (PH)

Perspectives/Attitudes - Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits

# Outcome: Lifelong Learning

5. J. Value and demonstrate commitment to continuing education and lifelong learning

Outcome Status: Inactive

Planned Assessment Year: Every Year

Outcome Category (Primary): Continuous Learning and Adaptability

#### Related Goals

Program - Engineering Education (PH)

Perspectives/Attitudes - Identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits

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Qualtrics Survey Software
Proposal for PhD in Engineering Education

### Introduction

#### Introduction:

The Ohio State University is constantly updating its curricula and programs. The recently established Department of Engineering Education (EED) will shape its practices and approach based on input from many of the engineering education stakeholders. This survey is directed towards potential and future students in order to help establish a student-centered program and curriculum within the OSU EED.

#### Targeted audience:

- · Undergraduate students interested in Engineering Education graduate degrees
- Masters students interested in Engineering Education PhD
- · Members of the Professional workforce seeking to expand knowledge or credentials
- Teachers, K12, and educational workforce seeking to expand knowledge or credentials
- Individuals interested in pursuing an education, certificate, or degree from the Department of Engineering Education at
   The Ohio State University

Consent Question: Do you allow the use of the survey for internal needs of The Ohio State University Department of Engineering Education?

Yes

No

# Personal Background

What is your gender?

Male

Female

Other

I would prefer not to respond

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1/17

9/16/2016

Qualtrics Survey Software
Proposal for PhD in Engineering Education

What is your age?	
Younger than 18 18-22 23-27 28-32 32+ I would prefer not to respond	
Within which race do you identify. Check all that apply.	
African American/Black American Indian/Alaskan Native Asian European American/White Hawaiian or Pacific Islander Other I would prefer not to respond	
Are you Latino/a?	
Yes	
No I would prefer not to respond	
Are you a U.S. citizen?	
Yes	
No	
I would prefer not to respond	
I am from this region of the world:	

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9/16/2016 North America	Qualtrics Survey Software Proposal for PhD in Engineering Education
South America	
Europe	
Asia	
Africa	
Islandia	
I am from this part of the co	ountry:
The Northeast	
The Southeast	
The West Coast	
The MIdwest	
The South	
I am from outside the U.S.A.	
	ous areas of study - answer as follows:
(college/department/major	) - if you have no previous areas of study answer N/A
	nt areas of study - please answer as follows: ) - if you are not currently enrolled answer N/A
What is the highest level of educa	tion you have completed?
0-2 years of undergraduate	
3+ years of undergraduate	
Bachelors degree	
Masters	
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9/16/2016	Qualtrics Survey Software
Currently I am a Ph.D. Student	Proposal for PhD in Engineering Education
Currently I am Ph.D. Candidate	
	004: 1: 1
Please select which most clos	ely represents your average GPA in higher education:
Above 3.5	
3 - 3.5	
2.7 - 3	
below 2.7	
How would you describe your	current university enrollment? Check all that apply.
	current university enrollment: Gneck all that apply.
Full-time	
Part-time	
Not enrolled	
I am part of the professional work	force
What are your notential limitat	ions for pursuing graduate education?
viriat are your potential ill little	ions for pursuing graduate education:
What is the highest level of education	n you are interested in pursuing? (please check all that apply).
Undergraduate Degree	
Masters Degree	
Doctorate	
	grees with Professional Certificates
Not Applicable	rece with forestional certificates
тот Арріїсавіс	
I would be interested in completing a	n online graduate degree with a distance learning format:
Strongly Agree	
Agree	
Somewhat agree	
Neither agree nor disagree	9/5/2017 - page 114
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9/16/2016 Somewhat disagree	Qualtrics Survey Software Proposal for PhD in Engineering Education	
Disagree		
Strongly disagree		
3,7 3		
I am interested in pursuing	full time graduate education:	
Strongly Agree		
Agree		
Somewhat agree		
Neither agree nor disagree		
Somewhat disagree		
Disagree		
Strongly disagree		
During my graduate education I	intend to have additional employment outside of the universit	ty (not including
teaching, research, fellowships of	or other opportunities granted by the university)	
Yes		
No		
Maybe		
I do not know		
•	a compressed degree that would allow you to per	-
teachers with only a summ	es in parallel with degree completion? (example: Proner curriculum)	ogram for
Yes		
No		
Engineering Education		
I am aware that the field of Engin	neering Education exists, produces scholarly research, and pro	duces Ph.D.s:

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Strongly agree

Qualtrics Survey Software  Somewhat agree Proposal for PhD in Engineering Education
Neither agree nor disagree
Somewhat disagree
Strongly disagree
am knowledgeable about the field of Engineering Education:
Strongly agree
Somewhat agree
Neither agree nor disagree
Somewhat disagree
Strongly disagree
have aspirations to contribute to the field Engineering Education:
Strongly agree
Somewhat agree
Neither agree nor disagree
Somewhat disagree
Strongly disagree
am interested in obtaining a degree from The Ohio State University Department of Engineering Education EED):
Strongly agree
Somewhat agree
leither agree nor disagree
Somewhat disagree
Strongly disagree
am interested in obtaining a degree in Engineering Education at a university other than The Ohio State Jniversity:
'es
No
am not sure

/16/2016	Qualtrics Survey Software Proposal for PhD in Engineering Education
Which programs of Engin	eering Education are you interested in? Please list.
My Pursuit.	
I would be interested in a engir effectiveness:	neering education degree – where I am evaluated on scholarly teaching
Strongly Agree	
Agree	
Neither Agree nor Disagree	
Disagree	
Strongly Disagree	
I would be interested in an eng	ineering education degree – where I am evaluated on research performance:
Strongly Agree	
Agree	
Neither agree nor disagree	
Disagree	
Strongly disagree	
I would be interested in a balar evaluated:	nced degree with both scholarly teaching and research activities being equally
Strongly Agree	
Agree	
Neither agree nor disagree	
Disagree	
Strongly disagree	
I would be interested in a certif knowledge without providing a	icate in Engineering Education that would increase my engineering education full degree:
Strongly Agree	9/5/2017 - page 117

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Qualtrics Survey Software Proposal for PhD in Engineering Education

Agree

Neither agree nor disagree

Disagree

Strongly disagree

# **Degree Dynamics**

What number of required courses should constitute a Master's level understanding of material?

1-5

6-10

10 +

Classes do not correlate to degree level understanding.

What amount of structure do you most prefer in a class?

I prefer being left alone to learn and do my classwork

I prefer independence from the instructor

I prefer strong guidance and support from instructors

I prefer working together with my classmates to learn

I have no preference regarding class structure

I prefer my engineering education classes to be on campus and in-person as opposed to online (virtual, distance, and/or synchronous/asynchronous):

Strongly Agree

Agree

Somewhat agree

Neither agree nor disagree

Somewhat disagree

Disagree

Strongly disagree

What percentage of course credits towards a graduate degree in engineering education should be taught from within an engineering education department?

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Proposal for PhD in Engineering Education

0 to less than 25%

25 to less than 50%

50% to less than 75%

More than 75%

I have no preference

I believe the following are important to my degree in engineering education

	Strongly Agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
To Identify, discuss, and address critical issues facing engineering education in alignment with stakeholder needs	Ο	0	0	0	0
To design, conduct, and critique research in engineering education	$\circ$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$
To demonstrate, value, and apply engineering expertise	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$
To create, teach, and assess courses and curriculua	$\circ$	0	$\bigcirc$	$\circ$	$\bigcirc$
To identify, demonstrate, and value appropriate personal and professional skills, mindsets, and traits	0	0	0	0	0

What number of required courses should constitute a Ph.D. level understanding of material?

1-5

6-10

10+

Classes do not correlate to degree level understanding

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#### Qualtrics Survey Software Proposal for PhD in Engineering Education

Rank order how much weight the following requirements should carry with respect to engineering education degree attainment:

Course Cr	redit					
Impact wi	thin the fie	ld of Engineer	ng Education			
Qualifying	/Candidac	y Exams				
Ph.D. Diss	ertation					
Dissertation	on Proposa	al				
Research	Publication	าร				
Teaching	Experience	?				
Dissertation	on Oral Def	ense				
Additional	Degree Sp	ecialization (0	Globalization,	Leadership, Mo	otivation, etc.)	
Are there any me question that you On a scale from	u feel are i	mportant to	include? Ple	ease explain.	d approache	es to Research
Advising and hov 0 = no correlatior		rresponds to	academic s	success: (5 =	correspond	s very strongly
	0	1	2	3	4	5
Close advising hands-on approa						
Balanced mentori with hands-on a independe approach intertwin	nd ent					
Advising that	t is				0/5	/2017 page 120

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9/16/2016 hands-off and			Itrics Survey Software n Engineering Educa			
affords much independence and self directed research						
On a scale from 0-5 to w necessary to succeed p	vhat extent are rofessionally?	the listed activi	ties important	for EED profess	ionals to acqui	re the skills
	0	1	2	3	4	5
International Experience						
External Collaboration						
Industry internships						
Leadership Role within Professional Society						
Rotations within different OSU EED Research Laboratories						
Discipline Based Educational Research						
Grant Writing						
Post-Degree Employment Opportunities						
Availability of funds supporting degree completion						
Informal Partnerships						

I believe the following should count towards graduate degree completion in engineering education:

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9/16/2016 Qualtrics Survey Software Strong Rypposal for PhD in Engineering Edycation agree						
	Agree	Disagree	Strongly disagree			
Research	Agree <b>O</b>	O	nor disagree	O	O	
Engineering Education Courses	$\circ$	0	0	$\circ$	0	
Conference Participation	$\circ$	$\circ$	0	$\circ$	$\bigcirc$	
Informal Learning Opportunities (outreach/engagement)	0	$\circ$	$\circ$	$\circ$	$\bigcirc$	
Research Publications	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Dissemination of one's work	$\circ$	$\bigcirc$	$\circ$	$\circ$	$\bigcirc$	
Professional Society Leadership Roles	$\circ$	$\bigcirc$	$\circ$	$\circ$	$\bigcirc$	
Engineering Professional Practice	$\circ$	$\circ$	$\circ$	$\bigcirc$	$\bigcirc$	
Classroom/Teaching Experience	$\circ$	$\circ$	$\circ$	$\bigcirc$	$\bigcirc$	
Annual Review	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
International Experience	$\circ$	0	$\bigcirc$	$\bigcirc$	$\circ$	
My Degree.  Please explain why you are interested in a Ph.D. within Engineering Education?  Which areas/specialization within EED do you anticipate being most critical to your future success: (Rate each independently)						
0	10 20	30 40	50 60 70	80 90	100	
Graduate Studies						
Undergraduate Engineering						
First Year Engineering						
Problem/Project				9/5/20	17 - page 122	

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Proposal for PhD in Engineering Education

Engineering Leadership

**Based Learning** 

Research Quality and Methods

Diversity and Inclusion

Engagement and Outreach

**Engineering Ethics** 

Informal Learning

Qualitative Research Methods

Quantitative Research Methods

> Mixed Methods Research

Evaluation and Assessment

Cognitive Studies

Engineering and Technical Communications

K12 Engineering Education

Faculty Development

Entrepreneurial Mindsets

**Education Policy** 

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# Qualtrics Survey Software Proposal for PhD in Engineering Education

Rank your interest in the specializations/areas within Engineering Education: (5 = strong interest, 0 = no interest)

	0	1	2	3	4	5
Graduate Studies						
Undergraduate Engineering						
First Year Engineering						
Problem/Project Based Learning						
Engineering Leadership						
Research Quality and Methods						
Diversity and Inclusion						
Engagement and Outreach						
Engineering Ethics						
Informal Learning						
Qualitative Research Methods						
Quantitative Research Methods						
Mixed Methods Research						
Evaluation and Assessment						
Cognitive Studies						
Engineering and Technical					9/5/2017 - p	age 124

9/16/2016	Qualtrics Survey Software
Communications	Proposal for PhD in Engineering Education
K12 Engineering Education	
Faculty Development	
Entrepreneurial Mindset	
Education Policy	
Please list any speci in which you are inte	alizations/areas within Engineering Education not included on the list erested:
The Ohio State Univ	versity and the OSU EED
What are the factors tha	t make The Ohio State University most appealing? Please rank.
Geographical	location in Columbus, Ohio
University size	9
University rep	utation
College of En	gineering reputation
The fact that	OSU is a comprehensive university
I am not fami	liar with The Ohio State University
Other	
If you answered oth question left blank.	er to the previous question, please explain. If not, proceed with this

Q/1		

# Qualtrics Survey Software Proposal for PhD in Engineering Education

Please briefly explain why The Ohio State University is appealing.

What are the factors that make The Ohio State University Department of Engineering Education (EED) most appealing? Please rank.
Newly established Department
The Departments setting within The Ohio State University
The EED leadership, faculty, and/or staff
The EED's Developent from the Engineering Education Innovation Center
I am not very familiar with the OSU EED
Other: Explain.
If you answered other to the previous question, please explain. If not, proceed with this question left blank.
Please briefly explain why The Ohio State University Engineering Education Department is appealing.
Closing
In this section please share any additional thoughts that you feel are important with respect to your needs and desires when considering enrolling in an engineering education department and that could be helpful to inform the development of the new engineering education graduate program.
Please let us know from where it was that you received this survey:
Email
etc.

https://osu.az1.qualtrics.com/ControlPanel/Ajax.php?action=GetSurveyPrintPreview

etc.

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$\Omega/1$	6	121	1	6

# Qualtrics Survey Software Proposal for PhD in Engineering Education

If you would like follow up regarding your responses to this survey, please submit your email:
Thank you.
Thank you for participating in this survey.
Our website is: www.eed.osu.edu
If you are interested in being added to The Ohio State University Department of Engineering Education listserv please send an email to
Click to write Choice 1
Click to write Choice 2
Click to write Choice 3



#### College of Education and Human Ecology

Department of Teaching and Learning 333 Arps Hall, 1945 N. High Street Columbus, OH 43210-0711 614-292-1257 Phone 614-292-7695 Fax

tl.ehe.osu.edu

February 3, 2017

Dr. Monica Cox, Chair, Department of Engineering Education Dr. Ann Christy, Engineering Education The Ohio State University

Dear Drs. Cox and Christy,

This letter is to express the Department of Teaching and Learning's support of the Department of Engineering Education's (EED) proposed Ph. D. in Engineering Education program. We currently have an engineering education area within our STEM Ph. D. area of study and have been in collaboration with EED and its predecessor EEIC in its development and implementation. While our program has some learning experiences on post-secondary education, our program is mainly focused on preparing researchers to research in P-12 education settings. EED's proposed Ph. D. program expands the opportunities for OSU students to more fully include developing researchers to work in post-secondary engineering education settings. The program looks like a good complement to our program. We see a number of opportunities for students in either program to take courses in the other department

We look forward to continued collaboration with EED in both teaching and research.

Sincerely,

Dr. Christian Faltis

Chair, Department of Teaching and Learning

Mustu ladas

### **Budget for New Graduate Degree Programs**

	Year 1	Year 2	Year 3	Year 4
Projected Enrollment				
Head-count full time				
Head-count part time				
Full Time Equivalent (FTE) enrollment				
Projected Program Income				
Tuition (paid by student or sponsor)				
Externally funded stipends, as applicable				
Expected state subsidy				
Other income (if applicable, describe in narrative section below)				
Series meetine (in approache) describe in narrative section series)				
TOTAL PROJECTED PROGRAM INCOME:				
TOTAL PROJECTED PROGRAM INCOME.				
Program Expenses				
New Personnel				
Faculty (e.g. tenure-track, clinical, professional)				
Full				
Part Time				
<ul> <li>Non-instruction (indicate role(s) in narrative section below)</li> </ul>				
Full				
Part time				
New facilities/building/space renovation				
(if applicable, describe in narrative section below)				
Tuition Scholarship Support				
(if applicable, describe in narrative section below)				
Stipend Support				
(if applicable, describe in narrative section below) Additional library resources				
(if applicable, describe in narrative section below)				
Additional technology or equipment needs				
(if applicable, describe in narrative section below)				
Other expenses (e.g., waived tuition and fees, travel, office supplies, accreditation	1			
costs)				
(if applicable, describe in narrative section below)				
TOTAL PROJECTED EXPENSE:				
NET				

**Budget Narrative**: (Use narrative to provide additional information as needed based on responses above.)

#### (APPENDIX LVIII)

#### Memorandum

To: University Senate

From: Maria N. Miriti, Chair, Council on Academic Affairs

Subject: Master of Applied Neuroscience Degree Program

Date: January 8, 2018

A PRPOSAL FROM THE COUNCIL ON ACADEMIC AFFAIRS TO ESTABLISH A MASTER OF APPLIED NEUROSCIENCE DEGREE PRORGAM, COLLEGE OF MEDICINE

Whereas the goal of the program is to develop a biomedical workforce with expertise in

the rapidly expanding field of neuroscience, with the intent of preparing the highest caliber of students equipped to effectively serve in a senior research positon or in an academic setting as an instructor to promote advances in

biomedical research and education; and

Whereas the 4-semester program will have a core didactic curriculum that is

Neuroscience based; a more specialized program developed around specific career goals – a research laboratory career or a career in higher education; and

a capstone project; and

Whereas the program will be housed in the Department of Neuroscience, College of

Medicine, and will be administered by a Director, Co-Director, and a graduate faculty committee; and no new facilities are required and no additional costs are anticipated; and has the support of the leadership of the College of Medicine;

and

Whereas the proposal was reviewed by a joint committee of the Council on Academic

Affairs and the Graduate Council and then was approved by the full Council on

Academic Affairs at its meeting on November 1, 2017,

Therefore be it resolved that the University Senate approve the proposal to establish a Master of Applied Neuroscience degree program and respectfully request approval by the Board of Trustees.

From: Smith, Randy
To: Bishop, Georgia A.

Cc: Smith, Randy; Reed, Katie; Miriti, Maria; Herness, Scott; Schlueter, Jennifer; Kent, K. Craig; Clinchot, Daniel; McPheron, Bruce A.; Whitacre, Caroline; Weisenberger, Jan; Thompson, Blake; Givens, Bennet; Schweikhart.

McPheron, Bruce A.; Whitacre, Caroline; Weisenberger, Jan; Thompson, Blake; Givens, Bennet; Schweikhart, Sharon; Lilly, Blaine; Torma, Hannah; Miner, Jack; Oberdick, John; Nelson, Randy; Manderscheid, David C.; Hadad, Christopher; Steffensmeier, Janet; Schmlesing, Ryan; Hofherr, Michael B.; Fink, Steven; Krissek,

Lawrence

Subject: Master of Applied Neuroscience

Date: Thursday, November 2, 2017 9:41:08 AM

Attachments: image001.png

#### Georgia:

Following its review by the combined Council on Academic Affairs (CAA) and Graduate Council subcommittee, the proposal from the Department of Neuroscience, College of Medicine, to establish a Master of Applied Neuroscience degree program, was approved by the Council on Academic Affairs at its meeting on November 1, 2017. Thank you for attending the meeting to respond to questions/comments.

The proposal will now be sent to the University Senate with a request that it be included on the agenda for action at the Senate meeting on January 18, 2018. Professor Maria Miriti, Chair of CAA, will present the proposal but it is important that you or someone from the Department be there to respond to any substantive questions/comments. I will provide you with details as we get closer to that date. If approved by the Senate, we will request action on the proposal by the Board of Trustees at its meeting on February 2, 2018. Concurrently, Professor Scott Herness, Interim Dean of the Graduate School, will work with you on the steps for approval by the Ohio Department of Higher Education (ODHE).

Please keep a copy of this message for your file on the proposal and I will do the same for the file in the Office of Academic Affairs.

If you have any questions please contact Professor Miriti (.1) or me.

Congratulations on the successful completion of this impirnatstage in the review/approval process!

#### Randy



#### W. Randy Smith, Ph.D.

Vice Provost for Academic Programs

Office of Academic Affairs

203 Bricker Hall, 190 North Oval Mall, Columbus, OH 43210
614-292-5881 Office
smith.70@osu.edu

TO: Randy Smith, Vice Provost for Academic Programs

FROM: Jennifer Schlueter, Faculty Fellow for Curriculum, Graduate School

DATE: 24 October 2017

RE: Proposal for a new tagged Masters in Applied Neuroscience

The Department of Neuroscience is proposing a new tagged Masters in Applied Neuroscience.

The proposal was received by the Graduate School in December 2015. It was reviewed by the combined GS/CAA Curriculum subcommittee, chaired by the Faculty Fellow, on 4 December 2015, and revisions were requested that same day. Revisions were received on 18 August 2016, and the proposal received its second review by the combined GS/CAA Curriculum subcommittee in November 2016. Revisions were requested on 20 December 2016. These revisions were received on 30 January 2017. The revised proposal received its third review by the combined GS/CAA Curriculum subcommittee on 6 February 2017, and revisions were requested on 7 February 2017. Revisions were received in summer 2017, and the proposal received its fourth review by the combined GS/CAA Curriculum subcommittee on 5 October 2017. It was forwarded it on to the Graduate Council for their review on 6 October 2017. The proposal was reviewed and approved at the Graduate Council on 23 October 2017. The positive results of this review were shared with the proposers on 24 October 2017.

#### 1. DESIGNATION OF NEW DEGREE PROGRAM: Master's in Applied Neuroscience

#### INTRODUCTION

The goal of the proposed Master's in Applied Neuroscience is to develop a biomedical work force with expertise in the rapidly expanding field of Neuroscience. The intent is to prepare the highest caliber of students equipped to effectively serve in a senior research position or in an academic setting as an instructor to promote advances in biomedical research and education in general, and specifically in the growing field of Neuroscience. The intent is to provide students with a Master's level curriculum that will provide both the didactic course work as well as research and teaching training that will prepare students for careers requiring advanced biomedical training beyond the baccalaureate degree. A recent survey <a href="https://neurosciencemajor.osu.edu/careers-neuroscience">https://neurosciencemajor.osu.edu/careers-neuroscience</a>) by the Undergraduate Neuroscience Major at The Ohio State University (OSU) determined that graduates with a Bachelor of Science degree in Neuroscience found employment in several areas including, Pharmaceutical Sales, Laboratory Technician, Science Writer, Science Advocacy, Lab Animal Care Technician, Sales Engineer, Special Education Assistant, Health Educator/Community Health Workers, Public Policy and several other areas. In general these positions have salaries ranging from \$25,000 to \$44,000 per year.

The intent of developing the Applied Neuroscience Master's Degree is to prepare students for advanced placement in a large number of biomedical fields that require a Master's degree as the basis for employment or advancement. Based on various jobs websites (https://www.indeed.com/g-Ms-Neuroscience-jobs.html; http://work.chron.com/can-masters-degree-neuroscience-4161.html) graduates would be immediately prepared for careers including, but not limited to, Research Assistant or Research Associate in a scientific or clinical research laboratory, Senior Scientist in Pharmacology, Research Scientist in Human-Machine Interactions, Neuroscience Genomics Research Associate, Medical Science Liaison, Marketing Assistants, Computer Lab and/or Sales Assistants for biotechnical or pharmaceutical companies, Neuroimaging technicians, Science Teacher, Research and Teaching Administrator, Adviser in public and government Institutions, Academic journalist, Medical writer, Clinical data manager and Patent Agent. Salaries increased significantly in these fields ranging from \$73,000 to \$104,000. In addition, students who obtain a master's level education in Neuroscience will be well-prepared to enter programs that may require additional training including medicine, dentistry, nurse practitioner, physician's assistant, genetic counselor, biostatistician, speech-language pathologist, and public health. In summary, obtaining an Applied Neuroscience Master's degree from The Ohio State University will expand employment opportunities well beyond what is available to individuals with a Bachelor's Degree.

All students enrolled in the Master's in Applied Neuroscience will take rigorous academic courses that will comprise a select subset of the courses developed for students studying to receive their Ph.D. in the Neuroscience Graduate Program. This course work, described below, will serve as the foundation for the program and provide the essential didactic knowledge they will need to be viable for advanced positions. In addition to the didactic coursework, students will then have a more specialized program developed around their specific career goals. Some students will specifically want a research/laboratory based career whereas others may be interested in higher education. Students on a research oriented track will be given extensive training in laboratory techniques under the guidance of experienced basic science and clinical science researchers. Those with an interest in pursuing a career in higher education will be mentored by faculty with extensive teaching credentials. Additional course work, as appropriate to the tracks, will be included as described below.

#### Faculty

The faculty involved in this program all have P status in the Graduate School. They are experienced mentors, having trained numerous Ph.D students as part of the Neuroscience Graduate Program (NGP). They participate in the didactic courses and are well-prepared to take students in the proposed Master's program into their laboratories for training. In addition, many of the faculty in the Department of Neuroscience participate in teaching courses in the Neuroscience Undergraduate Major. This includes faculty who teach two of the three required core courses in the curriculum with enrollments of 140 - 190 students/semester as well as several elective courses. These faculty will serve as mentors to students

interested in pursuing a pathway that will allow them to teach neuroscience courses at institutions of higher education.

The proposal is to make this a 4 semester program. A minimum of 30 semester credit hours will be required. To be in good standing in the Graduate School, a student must maintain a graduate cumulative point-hour ratio (CPHR) of 3.0 or better in all graduate credit courses and must maintain reasonable progress toward Graduate School or graduate program requirements.

#### CRITERIA FOR ADMISSION

Admission to the program would be limited to students with a baccalaureate from accredited institutions. Additional criteria would include demonstration of high promise based on their current professional activities. The minimum GPA for admission would be 3.0, although on average we would expect higher GPAs in the area of 3.4-4.0. GRE scores would be expected to be >70% in verbal and quantitative examinations. The proposed class size is initially 30-50 students. This likely would grow as the program becomes established.

#### DESCRIPTION OF THE PROPOSED CURRICULUM

The Master's in Applied Neuroscience at OSU will have a core didactic curriculum that is Neuroscience based. The objective is to provide advanced level knowledge and skills that will be valuable for practicing professionals. Regardless of whether students choose a career pathway in research or academia, they will need basic knowledge of the organization and function of the nervous system and how it relates to disease processes. This core curriculum (NeuroSc 7001, 7002, 7050, 7100, 7200.01, and 7890) is made up of well-established courses taken by students enrolled in several graduate programs including the Neuroscience Graduate Program, Biomedical Science Graduate Program, Molecular, Cellular & Developmental Biology Graduate Program, etc. Courses also are taken by undergraduate students in the Neuroscience Honor's Program, and students in other biologically based Master's Programs (e.g., Exercise Physiology, Anatomy). Finally, they are applicable for students seeking a graduate minor in Neuroscience. Most of the courses needed for this degree are already approved. Some will need to be developed specific to the Applied Master's degree. They syllabi for established and preliminary syllabi for courses to be developed are included in the Appendix.

#### ESTABLISHED COURSES

**NeuroSc 7001: Foundations of Neuroscience I.** This course provides students with an understanding of basic cellular, molecular, neurophysiological, and neuropharmacological principles. It also relates these principles to the basic organization of the normal and diseased nervous system. This is a letter graded course.

**NeuroSc 7002: Foundations of Neuroscience II.** This course covers basic neuroanatomy as well as the organization of select systems in the nervous system including motor, sensory, autonomic, and higher cognitive centers. It is designed to provide students with an understanding of how neural systems are organized and function and to relate this information to basic principles of behavior. This is a letter graded course.

**NeuroSc 7050: Neurobiology of Disease.** The intent of this course is to familiarize students with clinical and basic science research being carried out related to various diseases of the nervous system. The course also helps students develop critical thinking skills by having them discuss a relevant paper on each topic and to have them write an NIH style grant in which they develop a research project related to a specific neurological disease. This is a letter graded course.

**NeuroSc 7100: Current Topics in Neuroscience.** This course reviews recent literature under the direction of an expert in the field. They will be asked to critically evaluate the assigned papers with respect to the hypothesis of the study, techniques, writing style, and whether the data supports the conclusions. Critical thinking and ability to interpret relevant Neuroscience literature is essential for all types of positions. The papers selected for the course are correlated with material presented in NeuroSc 7001. This is an S/U graded course.

**NeuroSc 7200.01: Neuroscience Laboratory.** This is a laboratory component of NeuroSc 7002. The goals of this course are to familiarize students with the anatomy of the human brain, to relate anatomical material to radiographic images, and to use case studies to provide further understanding of human neuroanatomy and brain function. This is a letter graded course.

**NeuroSc 7890: Seminar in Neuroscience.** In this course, selected topics in neuroscience are presented by faculty, invited speakers from outside the university, and by students enrolled in the course. In addition, students discuss papers related to the research of outside speakers prior to their presentations. This is a letter graded course.

**Statistics.** If students have not had a statistics course as an undergraduate they will be required to take one of several courses offered by other departments at OSU. If they demonstrate proficiency in this area, the course will be waived. Demonstration of proficiency will be determined on a written examination that tests basic statistical concepts.

Electives: Students in both the research and education track may elect to take additional electives

related to their specific career goals. Examples include but are not limited to:

Biology 6001: College Biology Teaching

EDUCST 7406: Course Design for Higher Education

ESEPSY 7404: College Teaching

BMI 5710 - Introduction to Biomedical Informatics BIOETHC 6000—Bioethics Theory and Foundations

#### NEW COURSES TO BE SUBMITTED FOR APPROVAL

**NeuroSc 7000.1: Research Techniques.** This will provide the necessary skills for students who have a goal to work in a basic science or clinical research laboratory either in academia or industry. They will be assigned to laboratories where they will become competent in various lab skills including but not limited to animal handling, PCR, immunohistochemistry, genetic screening, CRISPR, maintenance of lab notebooks, basic data analysis, microscopy, etc. This will be a letter graded course.

**NeuroSc 7000.2: Education Techniques.** Students intent on a career in an education setting (e.g., high school science, neuroscience courses at community or small liberal arts colleges) would be paired with a faculty member engaged in didactic teaching at the undergraduate and/or graduate level. These students will be assigned to a mentor with a primary focus in education where they will become competent in developing courses, giving lectures, grading exams, counseling students, etc. These will be a letter graded course.

#### NeuroSc 7530: Bioethics.

The intent of this course is to discuss issues related to: Research and Research Misconduct, Ethical issues involving human and/or animal subjects, HIPPA/FERPA regulations, Applied Medical Ethics, IRB/IACUC regulations, Authorship and publication issues, Data management and record keeping, Peer review; Confidentiality, Issues of collaboration, Conflict of interest, Ethical Conduct Toward Students/Peers, Ethics of Teaching. Readings will be assigned prior to each session and students will be given a short quiz at the beginning of each session on the topic to ensure they have reviewed the material. This also should enhance participation during each session. We will work with faculty in the Center for Bioethics in the College of Medicine to develop this course. This will be a letter graded course.

### NeuroSc 7600: Capstone Project

The Capstone projects is designed to demonstrate that the students are able to think critically, solve challenging problems, and develop skills such as oral communication, public speaking, research skills, media literacy, teamwork, planning, self-sufficiency, or goal setting—i.e., skills that will help prepare them for careers in the biomedical science field. The projects will require students to apply skills or investigate issues and to demonstrate research or education proficiency.

The objective of the capstone course is to allow the students to synthesize and integrate the knowledge from their didactic course work with laboratory and teaching skills. The goal of the capstone course is designed to evaluate the student's ability to problem solve, carry out a critical analysis of scientific procedures and/or educational material, and their ability to communicate this information to their peers and instructors in the degree program. The course will determine if students are prepared to critically assess the literature, demonstrate competence in various lab skills or educational strategies analyses. The Capstone document will also constitute a portion of the University's required master's examination (described below). The ultimate educational goals of the Capstone Project is to demonstrate learning and proficiency, enhance student confidence and self-perception, and solidify educational and career assoirations.

The proposed sequence of core courses is as follows.

#### Summer Semester: (7 Credit Hours)

NeuroSc 7530 - Bioethics - 3 credit hours

NeuroSc 7000.X - Research/Education Techniques -4 credit Hours

#### Autumn Semester (15 Credit Hours):

NeuroSc 7001 Foundations of Neuroscience I – 6 credit hours NeuroSc 7100 – Current Topics in Neuroscience – 1 Credit hour NeuroSc 7000.X – Research/Education Techniques --6 credit hours NeuroSc 7890 – Seminar Topics in Neuroscience – 2 Credit Hours

#### Spring Semester (15 Credit Hours)

NeuroSc 7002 Foundations of Neuroscience II – 6 credit hours NeuroSc 7200.01 Neuroanatomy Laboratory (half semester) - 1 Credit Hour

NeuroSc 7050 - Neurobiology of Disease - 3 Credit Hours

NeuroSc 7000.X – Research/Education Techniques – 4 credit Hours NeuroSc 7890 – Seminar Topics in Neuroscience – 1 Credit Hours

#### Summer Semester (3 credit hours):

NeuroSc 7600: Capstone Project (3 credit hours)

The minimum number of credit hours a student will earn is 40 (7 + 15 + 15 + 3 = 40) although some will earn more if they choose to take electives as noted above.

**EVALUATION:** In addition to their letter grades in the core courses, students will receive a written evaluation at the end of each semester from their mentor (NeuroSc 7000.X). The comments will be reviewed by the Master's Committee and discussed with the students.

#### FINAL EVALUATION OF STUDENTS - MASTER'S EXAMINATION

**Committee:** The Master's Examination Committee will be composed of at least two Graduate Faculty members including the student's mentor. The student's advisor may invite other graduate faculty members to participate as members of the committee. The advisor of each master's student will hold membership at the category M or P level in the Neuroscience Graduate Program. All members of the Master's Examination Committee will be present during the oral portion of the examination and will participate fully in questioning the student as well as in the discussion and decision on the result.

**Examination:** The final examination will consist of both written and oral components to evaluate students. For the written portion, students will be asked to use the document from their Capstone Project as the written document for the Master's Examination. They will submit a draft to the Master's Examination Committee which must be approved by all members. In general, the written portion of the

examination will consist of a detailed report of research they carried out in their mentor's lab. This would include hypothesis development, background of the project, methods used to test the hypothesis, results, inclusion of appropriate citations and discussion of the findings. For students in the education track, they would be expected to develop a new course on paper, including rationale for the course, syllabus, study plans, methods of evaluation of students and sample lectures.

**Evaluation:** After submission, the full paper will be reviewed by members of the Master's Examination Committee. When it is approved, students will have 2 weeks to prepare for an oral defense of their paper. At the oral defense, the focus will be on the paper itself, but topics from any of the courses they have taken may be included. The advisor will serve as the chair of the oral defense. Upon completion of the oral examination the Examination Committee will determine if the student has adequately addressed all questions and vote to pass or not pass the student.

#### ADMINISTRATIVE ARRANGEMENTS FOR THE PROPOSED PROGRAM

The Department of Neuroscience within the College of Medicine will be the administrative unit that has primary responsibility for administering the program. The Director, co-director, and a committee of graduate faculty will have primary responsibility for developing a handbook that specifically defines the requirements and responsibilities of faculty and students in accordance with the Graduate School Handbook. They also would be responsible for monitoring student progress. In addition to those duties specified in the Graduate School Handbook, the Neuroscience Master's Committee will develop and evaluate the curriculum, establish program policies, standards, and procedures, screen applicants for admission to the program and make final determinations on admission, approve programs of study (as to general program requirements) for students in the program, conduct review of students at the end of each semester, receive and act on petitions from graduate students, hear and respond to graduate student grievances, and conduct any other program business that may arise.

#### EVIDENCE OF THE NEED FOR THE PROGRAM

Whereas several Ohio Universities offer Ph.D. degrees in Neuroscience that are primarily focused on a career in research, there are few Master's degree programs. Two of note are

Kent State University offers a Master's of Science in Neuroscience. Although it is defined as a Master's degree, preference is given to students applying for the Ph.D. Program. The description suggests that the Master's degree is given as a terminal degree for students that complete the core course work and who also have some research experience but for whatever reason choose to end their graduate training at that point.

**Wright State University** offers a Master's of Science in Physiology and Neuroscience. The purpose of the master's degree is to provide the student with a strong research-oriented background in one of several areas of physiology, biophysics, or neuroscience.

The Master's in Applied Neuroscience at OSU would have a core curriculum that is Neuroscience based. However, it also will have components that would specifically focus on individual student needs. Depending on individual student interests, we will propose different rotations that they could enter to further help them in achieving their future career goals in research or teaching as described above.

In summary, this would be a unique program. It will allow students to explore different possibilities in a variety of biomedical careers with a neuroscience emphasis. Successful students would receive a Master's degree at the end of the program which is a tangible acknowledgement that they have a certain level of expertise in a very important and rising biomedical field of study increasing their marketability, and their likelihood of obtaining a lab, academic, or industry related position. Students successfully completing the program would receive a letter of recommendation and a personal assessment.

# SPECIAL EFFORTS TO ENROLL AND RETAIN UNDERREPRESENTED GROUPS

The proposed major would critically evaluate applications from under represented students and make every effort to ensure they are included in the class. For recruitment, we plan to specifically target several colleges within Ohio (e.g., Central State University, Wilberforce) that are Historically Black Colleges.

Information on the program in the form of posters, brochures and website information would be sent to these schools. All attempts will be made to personally contact faculty advisors in majors such as Biology, Psychology and Neuroscience in order to establish a working relationship between our program and their school. We plan to personally visit these schools for events including career days or research days to discuss the degree, how it could help them find better employment, and encourage qualified students to apply. We also will advertise in minority-oriented media. Included in the media will be images that reflect diversity in the program (e.g., women, African-Americans, Asian Americans). We will also provide information on the importance of diversity at The Ohio State University and resources available to them outside the Department of Neuroscience (e.g., Office of Diversity and Inclusion, Hale Black Cultural Center, Leadership Initiatives for Women of Color, Latino and Latin American Space for Enrichment and Research, Student Life Multicultural Center). Another goal would be to work with students to help them find financial support that may be offered by groups or agencies that focus on supporting underrepresented individuals. Finally, we will encourage them to attend the Graduate and Professional Student Recruitment Initiative which is attended by minority students who demonstrate an interest in graduate programs at The Ohio State University.

Retention of all students in the program is important. An important factor in retaining students is mentoring. Students will be assigned to labs with experience in mentoring undergraduate/early graduate students. We now have extensive experience in this area due to our involvement in the Undergraduate Neuroscience Major. Faculty in the Department have mentored 65 undergraduate students. In part, the success of this mentoring relationship is evidenced by the fact that undergraduate students from labs of our faculty have presented data at the Denman Research Forum. In the last 3 years, 8 students have received 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, or 4<sup>th</sup> place awards. They also have presented at the Neuroscience Research Day and the College of Medicine Research Day. Students also are co-authors on faculty papers. This demonstrates that our faculty are excellent in mentoring students at all levels and in training them in lab skills. For underrepresented students, we will carefully monitor their progress and offer assistance as needed in the way of tutors, one-on-one counseling, and meeting with peers from this program or others with a similar focus. The focus of the program is to help students expand their professional development and to provide the necessary skills needed to make them more competitive and resilient.

# AVAILABILITY AND ADEQUACY OF THE FACULTY AND FACILITIES AVAILABLE FOR THE NEW DEGREE PROGRAM.

No new facilities are required. Involved faculty will be those with graduate status in the Neuroscience Graduate Program. Individual faculty will be identified based on the needs of the program each year.

### NEED FOR ADDITIONAL FACILITIES AND STAFF AND THE PLANS TO MEET THIS NEED.

The program would need an Administrative Associate to support the operational aspects of the program. This individual would be a staff member in the Department of Neuroscience. In addition, we will need to support 4-5 Teaching Assistants. As the program grows, we may need to hire part-time lecturers

# PROJECTED ADDITIONAL COSTS ASSOCIATED WITH THE PROGRAM AND EVIDENCE OF INSTITUTIONAL COMMITMENT AND CAPACITY TO MEET THESE COSTS.

No additional costs are anticipated at this time. This degree program has the support and commitment of the Dean for Medical Education in the College of Medicine. His letter is attached to the submission.

# CONCURRENCE.

Concurrence was obtained from the director of the Neuroscience Graduate Program. This program only offers a Ph.D. degree and is research based. It is not in conflict with this proposed Master's Degree Program. Dr. Oberdick's letter is attached.

#### **APPENDIX 1**

#### **GENERAL PROGRAM GOALS**

Upon completion of the Masters of Applied Neuroscience, students should attain:

- advanced knowledge in subject matter relevant to the field of Neuroscience including cell and molecular neuroscience, neuroanatomy, neurophysiology, behavioral neuroscience, and translational neuroscience.
- a working understanding of the scientific method as well as laboratory and/or teaching skills relevant to the field of Neuroscience.
- 3. knowledge and comprehension of statistics and experimental design.
- 4. knowledge and comprehension of the neuroscience research and education literature
- 5. a sense of responsibility as well as an understanding of the ethical dimensions of the discipline of Neuroscience. Students should develop ethical behaviors, cultural sensitivity, teamwork, and display professional conduct appropriate for an individual in a research or academic area.
- verbal and written communication skills for teaching and interactions with peers within the scientific community

#### LEARNING OBJECTIVES

The general program goals will be measured by the following learning objectives.

- 1. Students will demonstrate competency in attaining advanced knowledge in neuroscience by:
  - a. Posting final grades > B in the base curriculum.
  - b. Demonstrating their ability to apply this knowledge to other program goals such as interpreting literature, conveying this information to others in a classroom setting, applying it to their research experiences, and incorporating the information into formal and informal discussions with their peers or other faculty in the program.
- 2A. Students will demonstrate competency in understanding the scientific method as it relates to their lab efforts by their ability to:
  - a. Follow a protocol that includes all steps in the procedure and demonstrate competency in preparing all reagents, equipment, and supplies needed to complete each step in the protocol.
  - b. Complete procedures in a timely manner.
  - c. Trouble shoot if there are unexpected problems that arise resulting in failure of an experiment.
  - d. Analyze data generated from procedures carried out in the laboratory.
  - e. Keep proper notes in a notebook (online or paper).
  - f. Discuss results with their mentor and/or other members of the lab.
  - g. Design the next set of experimental procedures to be carried out.
- 2B. Students will demonstrate competency in understanding educational theory by their ability to:
  - a. Prepare lectures for a course which will be reviewed by the mentor.
  - b. Present lectures to the mentor and following guidance for modifications.
  - Present lectures to a class at an appropriate level for the student audience.(i.e., undergraduate students, graduate students).
  - d. Review the evaluation of the presentation with the mentor and make appropriate changes.
  - Evaluate students in the class through tests to determine if information presented is consistent with student scores.
  - Schedule appointments with students to review material presented and answer their questions.

- Students will demonstrate competency in statistics by:
  - a. Selecting appropriate tests during data analysis as confirmed by their mentor
  - b. Assessing the quality of an exam question based on Difficulty and Discrimination Scores and revising questions as needed.
- Students will demonstrate competency in understanding scientific or educational literature by:
  - a. Explaining the purpose and goals of a given study.
  - b. Critically assessing results of a given study.
  - c. Determining the reproducibility of the data.d. Judging the relevance of the study relative to their ongoing studies.
  - e. Discussing the literature with peers and/or faculty during seminars, lab meetings, or one on one sessions
- 5. Students will demonstrate competency in professional and ethical behavior, cultural sensitivity, and teamwork by:
  - a. Demonstrating co-operation with others in the laboratory or classroom
  - b. Recognizing and responding to constructive criticism from their peers, mentors, and faculty.
  - c. Demonstrating a willingness to assist others in the laboratory or classroom.
- 6. Students will demonstrate competency in verbal and written communication skills for teaching and interactions with peers within the scientific community by:
  - a. Preparing presentations which will be reviewed by their mentors and members of the Master's Committee.
  - b. Presenting data at local (e.g., Neuroscience Research Day) and where possible national meetings (e.g., Annual meeting of the Society for Neuroscience).

  - c. Employ feedback from those reviewing or attending the presentation.
     d. Successfully conveying to their Master's Examination Committee their neuroscience knowledge base in both written and oral presentations.
  - e. Participate in discussions during seminars, laboratory or educational meetings.
  - f. After completing an experiment, they will discuss the data with their mentors or other knowledgeable members of the lab to determine if they understand the results of their studies.

### Long term Assessment of the Program

We will track student success in gaining employment. This will be essential for evaluating the effectiveness of the program. Periodically, alumni survey will be sent to graduates of the program requesting information on their current positions.

# Appendix 2 – Syllabi ESTABLISHED COURSES

# Foundations of Neuroscience I

NGSP 7001

06 credit hour Fall Semester, 2016

1175 Graves Hall

8:30AM -9:50 AM

Course Directors: Dr. Candice Askwith and Dr. Christine Beattie

# Module Leaders

Basic	Cellular and	Neurotransmission and	Neurodevelopment
Neurophysiology	Molecular Module B	Glia	Module D
Module A	Dr. John Oberdick	Module C	Dr. Christine Beattie
<b>Dr. Candice Askwith</b> 4066B Graves Hall	226A Rightmire Hall	<b>Dr. Min Zhou</b> 4066C Graves Hall	190 Rightmire Hall
(614) 688-7943	(614) 292-8714	(614) 366-9406	(614) 292-5113
askwith.1@osu.edu	oberdick.1@osu.edu	min.zhou@osumc.edu	beattie.24@osu.edu

Course Objectives:To develop a working knowledge of the cellular, molecular, and neuro-physiological principles fundamental to neuroscience research and relate these principles to the normal and diseased nervous system. The course will consist of four modules. Module A will provide knowledge of neurophysiology: the ionic basis of electrical excitability of neurons, action potentials, synaptic transmission, and basic biophysics of neurons. Module B will cover the cellular and molecular aspects of the nervous system. Module C will cover more advanced topics such as neurotransmitter systems and the fundamental mechanisms of neuronal and glial communication. Module D will convey a foundational understanding of how the nervous system develops.

**Text and Website:** A textbook is not required; Relevant chapters found in any basic Cell Biology, Neuroscience, or Development textbook would be an excellent supplement. For neurophysiology, and basic neuroscience text book such as those authored by Kandel, Bear, Haines, Mathews, Nicholls, Purves, or Zigmond would contain chapters with relevant information. For cell and molecular biology, text books authored by Squire, (Fundamental Neuroscience) or Cell/Molecular Biology texts by Alberts or Roberts. For neurodevelopment, "Development of the nervous system" (Sanes, Rah, and Harris-available at the Health Sciences Library). **Our web site is:** <a href="http://carmen.osu.edu/">http://carmen.osu.edu/</a>.

Student Evaluation: Three Exams (33.33% each) taken in the classroom.

#	Date	Topic	Instructor	Module/ Leader
1	Wed 8/24/2016	Course Overview/Membrane Potential and Ion Channels	C. Askwith/ C. Beattie askwith.1@osu.edu	
2	Fri 8/26/2016	Ionic currents and Ohms Law	C. Askwith	
3	Mon 8/29/2016	Ionic Basis of the Action Potential	G. Bishop bishop.9@osu.edu	
4	Wed 8/31/2016	Basic Electrophysiology Techniques	G. Bishop/C. Askwith	
5	Fri 9/02/2016	Propagation/Modulation of Action Potentials	G. Bishop	
	Mon 9/05/2016	NO CLASS	Labor Day	
6	Wed 9/07/2016	Synaptic Potentials	C. Askwith	
7	Fri 9/09/2016	Synaptic Integration	C. Askwith	
8	Mon 9/12/2016	Synaptic Plasticity: LTP/LTD	C. Askwith	
9	Wed 9/14/2016	Advanced Methods in Neurophysiology	C. Askwith	
	Fri 9/16/2016	EXAM 1		
10	Mon 9/19/2019	The Nucleus and Chromatin Structure	J. Oberdick oberdick.1@osu.edu	
11	Wed 9/21/2016	Transcription Factors and Transcriptional Networks in Neuroscience	J. Oberdick	
12	Fri 9/23/2016	Protein Synthesis and Translational Control	C. G. Lin lin.492@osu.edu	
13	Mon 9/26/2016	Protein Sorting and Trafficking	C. G. Lin	
14	Wed 9/28/2016	Axonal transport and the cytoskeleton of nerve cells I	A. Brown brown.2302@osu.edu	

#	Date	Topic	Instructor	Module/ Leader
15	Fri 9/30/2016	Axonal transport and the cytoskeleton of nerve cells II	A. Brown	
16	Mon 10/03/2016	Signaling Pathways I	Chen Gu gu.49@osu.edu	
17	Wed 10/05/2016	Signaling Pathways II	K. Obrietan obrietan.1@osu.edu	
18	Fri 10/07/2016	The Mitochondria	J. Oberdick	
19	Mon 10/10/2016	High-Throughput DNA Sequencing and In Silico Applications	J. Oberdick	
	Wed 10/12/2016	EXAM 2		
	Fri 10/14/2016	NO CLASS	Autumn Break	
20	Mon 10/17/2016	Cell Biology of the Synapse	J. Jontes Jontes.1@osu.edu	
27	Wed 10/19/2016	Electrical Synapses	G. Bishop	
21	Fri 10/21/2016	Excitatory and Inhibitory Amino acids	C. G. Lin	
22	Mon 10/24/2016	Catecholamines: Dopamine, Epinephrine	H. Gu gu.37@osu.edu	
23	Wed 10/26/2016	Acetylcholine, Serotonin, Histamine	R. T. Boyd boyd.16@osu.edu	
24	Fri 10/28/2016	Neuropeptides, ATP, and Other Neurotransmitters	C. Askwith	
25	Mon 10/31/2016	Glia and Myelination	D. McTigue dana.mctigue@osumc.edu	
26	Wed 11/02/2016	Astrocyte Physiology	M. Zhou min.zhou@osumc.edu	
28	Fri 11/04/2016	Cell Survival and Death	S. Yoon yoon.84@osu.edu	
29	Mon 11/07/2016	The extracellular matrix and axonal injury	Y. Shen yingjie.shen@osumc.edu	

#	Date	Topic	Instructor Module/ Leader
	Wed 11/09/2016	EXAM 3	
	Fri 11/11/2016	No Class	Veterans Day
30	Mon 11/14/2016	Overview of Nervous System Development and Neural induction	C. Beattie beattie.24@osu.edu
31	Wed 11/16/2016	Polarity and Regionalization	J. Oberdick
32	Fri 11/18/2016	Neuro and Gliogenesis	A. Fischer fischer.412@osu.edu
33	Mon 11/21/2016	Determination and Differentiation	C. Beattie
	Wed 11/23/2016	NO CLASS	Thanksgiving
34	Fri 11/25/2016	NO CLASS	Thanksgiving
35	Mon 11/28/2016	Mechanisms of Axon Guidance	C. Beattie
36	Wed 11/30/2016	Target Selection and Topographic Maps	C. Beattie
37	Fri 12/02/2016	Synapse Formation and Elimination	C. Beattie
38	Mon 12/05/2016	Stem Cells	A. Fischer
39	12/07/2016	Methods in Neuroscience	C. Beattie/ Oberdick
Fin	als Week Dece	ember 09 <sup>th</sup> -15 <sup>th</sup> (Fri-Thurs	EXAM 4 To Be Determined

**Neuro 7100 Paper Discussion Class format** 

Where: Graves 1165

When: 9:00-10:15 AM Tuesday mornings

Course Directors: Dr. Min Zhou and Dr. Andy Fischer

 The lectures for 7100 will discuss a relevant, current paper the week following their presentation in NeuroSc 7001 by individuals giving the lectures.

- 2. Lecturers are responsible for selecting a paper and sending a PDF of the paper to Dr. Zhou at least 1 week before the discussion.
- 3. Lecturers will provide a PPT presentation of the figures.
- 4. Lecturers should include PPT schematic diagrams that explain any crucial or novel techniques used in the paper.
- 5. Students will volunteer or be called upon to interpret and discuss the figures.
- 6. Students are responsible for understanding the motivation behind the paper and be able to set up the paper and discuss all figures.
- 7. Lecturers will interject as needed to add relevant information, provide clarity for an unfamiliar method, clear-up any misconceptions, direct students attention to a missed point, etc.
- 8. It is expected that a student-led discussion will ensue around the questions provided by the lecturer.
- 9. Lecturers and course directors will ensure that all students are participating and will call on students if necessary.

### Schedule:

Sept 1 - Overview

Sept 8 - Askwith

Sept 15 - Bishop

Sept 22 - Oberdick

Sept 29 - Brown

Oct 06 - Obrietan Oct 13 - Jontes

Oct 20-break SfN

Oct 27 - Lin

Nov 3 - McTique

Nov 10 - Zhou

Nov 17 - Beattie

Nov 24 -Fischer

# NeuroSc/Dent 7002: FOUNDATIONS OF NEUROSCIENCE II (6 CR HOURS) SPRING SEMESTER 2017

#### **FACULTY**

Dr. Georgia Bishop
Dr. Susan Travers
Dr. Derick Lindquist

3187 Graves Hall
4153 Postle Hall
2-8363
2-7619
2-7619
2-2236
bishop.9@osu.edu
travers.3@osu.edu
lindquist.40@osu.edu

CLASSROOM: 1024 GRAVES HALL -SOUTHWEST (9 $^{\rm TH}$  AVENUE) SIDE OF GRAVES HALL ON THE FIRST FLOOR.

**LECTURE FORMAT:** Lectures will be given M, W, and Th from 8:30-10:00 AM. These are intended to provide an **overview** of the structure and function of the nervous system as well as **general concepts of the organization of a region/system**. They are not intended to be all inclusive. Students will be expected to read the textbook for supplemental information.

# SUGGESTED TEXTBOOKS:

Nolte <u>The Human Brain, 6th Edition: An Introduction to Its Functional Anatomy</u> Kandel, et al. <u>Principles of Neural Science, 4<sup>th</sup> Edition</u>. McGraw-Hill Publishers Squires et al., <u>Fundamental Neuroscience</u>, <u>Third Edition</u> Academic Press.

**EXAM FORMAT:** Individual instructors will prepare questions from their lectures. The number of questions will be proportional to the amount of time the instructor lectured. The written portion will consist of short answer, multiple choice, and fill in the blank questions. The exams are not cumulative. Each will cover material presented since the last exam.

**Final Grade:** Your final grade will be based on the total number of points you accumulate relative to the number of points available from all exams.

# ACADEMIC INTEGRITY (ACADEMIC MISCONDUCT)

Academic integrity is essential to maintaining an environment that fosters excellence in teaching. research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's Code of Student Conduct, and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's Code of Student Conduct and this syllabus may constitute "Academic Misconduct." The Ohio State University's Code of Student Conduct (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the university, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's Code of Student Conduct is never considered an "excuse" for academic misconduct, so I recommend that you review the Code of Student Conduct and, specifically, the sections dealing with academic misconduct. If I suspect that a student has committed academic misconduct in this course. I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include suspension or dismissal from the University and a failing grade in this course. If you have any questions about the above policy, please contact me. Other sources of information on academic misconduct (integrity) include: COAM's web page (<http://oaa.osu.edu/coam/home.html>) "Eight Cardinal Rules of Academic Integrity" (<a href="http://www.northwestern.edu/uacc/8cards.html">http://www.northwestern.edu/uacc/8cards.html</a>).

DATE	TOPIC	LECTURER
1/9	Introduction to Course, Terminology & Overview of Nervous System	Bishop
1/11	Arterial and Venous supply to CNS; Ventricles and flow of CSF	Bishop
1/13	Peripheral Nervous System; Functional Components of Nerves Autonomic Nervous System	Bishop
1/16	No Class MLK holiday	
1/18	Cranial nerves – components and peripheral distribution	Bishop
1/19	Anatomical and Functional Organization of the Spinal Cord	Lerch
1/23	Brainstem I	Travers
1/25	Brainstem II	Travers
1/26	Organization of Diencephalon (Thalamus) and Telencephalon	Bishop
1/30	EXAM 1 Covers material from 1/9 through 1/26	
2/1	Principles of Sensory Processing and Coding	Travers
2/2	Somatosensory System: transduction touch	Travers
2/6	Pain	Travers
2/8	Taste	Travers
2/9	Peripheral Muscle Receptors and spinal cord reflexes Descending pathways that control motor neurons	Bishop
2/13	Vestibular System	Bishop
2/15	Cerebellar Control of Movement	Bishop
2/16	Basal Ganglia Control of Movement	Bishop
2/20	EXAM 2 Covers material from 2/1 through 2/20	
2/22	Hypothalamus – General Organization	Obrietan
2/23	Circadian Rhythms	Obrietan
2/27	Reticular Formation – General Overview and Chemically Defined Pathways	Bishop
3/1	Disruptions of Circadian Rhythms	Nelson
3/2	Cerebral Cortex: Functional Organization of Association Areas	Givens

3/6	Neuroendocrine Function	Leuner
3/8	Limbic System: Overview and Aggression	Weil
3/9	Hippocampus: Current concepts on function (Memory, Epilepsy)	Weil
3/13- 3/17	SPRING BREAK NO CLASS	
3/20	Psychiatric Disorders: Schizophrenia	Coutellier
3/22	Behavioral Genetics	Motti
3/23	Gene Therapy	Motti
3/27	EXAM 3 Covers Material from 2/22 through 3/22	
3/29	Sexual Dimorphism	Lenz
3/30	Sleep Circuits	Weil
4/3	Neurobiology of Learning and Memory	Lindquist
4/5	Stress – Overview of Neural Systems	DeVries
4/6	Stress – Autonomic control	DeVries
4/10	Interactions between Nervous System and Immune System	Godbout
4/12	The Aging Nervous System	Wenk
4/13	Drugs of Abuse	Gu
4/17	fMRI studies in Behavior	Leber
4/19	Study Day	
4/20	EXAM 4 Covers material from 3/23 through 4/17	

#### NEUROSCI 7200.01 NEUROSCIENCE LABORATORY

#### LAB/DISCUSSION SCHEDULE

Course Directors: Dr. Georgia Bishop and Dr. Susan Travers

Lab Sessions will be in room **285 Hamilton Hall**, unless otherwise noted. They will be held on Wednesdays from 10:15-noon. Gloves will be provided. Students should bring a probe, scissors, forceps, Nolte textbook which will be the reference atlas. You also will be provided with a video on brain dissection that will be used primarily for the laboratory on Feb. 15. This video must be returned before the practical exam.

### Grades will be based on the following:

**90%** of your grade will be based on your score on the Laboratory Practical Exam. In this exam you will be asked to identify structures on whole brains, cross sections, dissected brains, and photographic images. Details on the format of the examination will be given during the lab session

10% of your grade will be based on attendance and participation in identification of listed structures. This will also include participation and presentation of the Clinical Correlations. All members of the team assigned to a case study are expected to fully participate in presenting the case and in discussing the relevant neuroanatomical data needed to answer specific questions related to the case. You should be prepared to include pictures, cross sections, or gross brains as part of your presentation.

Details on what is covered in each lab is described in the Lab Manual.

Case Studies: Groups will be given a case study of a neurological disorder/trauma. Questions will follow the case which the group is expected to answer using whatever anatomical material or images they need. A computer and monitor will be available if students want to make up a short (3-4 slides) Powerpoint presentation. In addition, an overhead style projector will be available for demonstrating site of lesion, blood vessel involvement, etc. on gross brain/spinal cord material to the group. These sessions will be held on Feb. 1 and Feb. 8, 2017.

# Jan. 11, 2017

**Room 1024 Graves Hall** Video – Dural sinuses, brain *in situ* ~ 45 minutes Major Subdivisions of CNS Venous Sinuses and Dural Folds

# Jan. 18, 2017- 285 HAMILTON HALL:

Cranial Nerves – Origin on the brainstem Arterial Supply of Brain Meninges, Dural Folds, and Venous sinuses

# Jan.25, 2017 - 285 HAMILTON HALL:

Gross anatomy of spinal cord (cadaver) Major landmarks on medulla, pons, midbrain on gross brain and cross sections

### Feb. 1, 2017 - 285 HAMILTON HALL:

Case Studies – Spinal cord, cranial Nerve and medullary involvement Gross anatomy of the Diencephalon, and Forebrain including cerebral cortex and subcortical nuclei

# Feb. 8, 2017 - 285 HAMILTON HALL:

Case Studies – Pons and Midbrain Involvement Sagittal View Brain Cross Sections/Atlas Images of diencephalon and forebrain

#### Feb. 15, 2017 - 285 HAMILTON HALL:

Continue - Cross Sections/Atlas Images of diencephalon and forebrain.

Dissection of specific region of brain selected by group. A copy of the brain video will be provided to guide you in this dissection. The video will need to be returned at the end of this lab session.

# Feb. 22, 2017-285 HAMILTON HALL: REVIEW

March 1, 2017 – 285 Hamilton Hall LAB PRACTICAL EXAM

# NeuroSc 7050 **Neurobiology of Disease**

#### 3 semester credits

# Class schedule:

Class meets 2 times/week (Tuesday 9:00-9:55 am and Thursday 9:00-10:55 am)

1st meeting (Thursday): 2 lectures

2<sup>nd</sup> meeting (Tuesday): discussion of assigned paper

# Course Director:

Dr. Chien-liang Glenn Lin Dr. Andrei Rotter Phone: 292-7747 Phone: 688-5433 Office: 4130 Graves Hall Office: 5142 Graves Hall E-mail: lin.492@osu.edu E-mail: rotter.1@osu.edu

# Course description:

Neurobiology of Disease will explore the basis of major disease affecting the nervous system. Experts from throughout the university will provide state of the art overviews on the clinical, neuropathological, physiological and molecular features of diseases. Lecturers will also discuss key areas that hold promise for future research, including the development of rational therapies. Diseases to be discussed will include: neurodegenerative diseases, neurodevelopmental disorders, neurotrauma, brain tumors, seizure disorder, and multiple sclerosis. There will be a paper discussion following the lectures for each subject. Students will be required to write a 5page research proposal and the proposals will be discussed on the final week of this course.

The grade will be based on a research proposal, participation in paper discussion and class attendance.

Research Proposal	40 points
Paper discussion	40 points
Class attendance	20 points

3 atteridance	20 points
<u>Grade</u>	Total points
Α	90-100
В	80-89
С	70-79
D	60-69
F	<60

# Schedule:

# Week 1: Alzheimer's disease I

Lecture 1: Clinical and neuropathological features of Alzheimer's disease

Lecture 2: Molecular mechanisms and therapeutic approaches of Alzheimer's disease Paper discussion

# Week 2: Alzheimer's disease II

Lecture 1: Molecular mechanisms and therapeutic approaches of Alzheimer's disease Lecture 2: Molecular mechanisms and therapeutic approaches of Alzheimer's disease Paper discussion

### Week 3: Motor neuron diseases

Lecture 1: Clinical and neuropathological features of ALS and SMA

Lecture 2: Molecular mechanisms and therapeutic approaches of SMA and ALS

Paper discussion

#### Week 4: Expanded repeat diseases

Lecture 1: Clinical and neuropathological features of Huntington's disease

Lecture 2: Molecular mechanisms and therapeutic approaches of expanded repeat diseases

Paper discussion

#### Week 5: Seizure disorder

Lecture 1: Clinical and neuropathological features of epilepsy

Lecture 2: Molecular mechanisms and therapeutic approaches of epilepsy

Paper discussion

#### Week 6: Neurotrauma

Lecture 1: Clinical and neuropathological features of brain and spinal cord trauma

Lecture 2: Molecular features and therapeutic approaches of spinal cord trauma

Paper discussion

#### Week 7: Parkinson's disease

Lecture 1: Clinical and neuropathological features of Parkinson's disease

Lecture 2: Molecular mechanisms and therapeutic approaches of Parkinson's disease

Paper discussion

# Week 8: Neurodevelopmental disorders

Lecture 1: Clinical and neuropathological features of autism

Lecture 2: Molecular mechanisms and therapeutic approaches of autism

Paper discussion

# Week 9: Brain tumors

Lecture 1: Clinical and neuropathological features of brain tumors

Lecture 2: Molecular mechanisms and therapeutic approaches of brain tumors

Paper discussion

# Week 10: no class, spring break

# Week 11: Multiple sclerosis

Lecture 1: Clinical and neuropathological features of multiple sclerosis

Lecture 2: Molecular mechanisms and therapeutic approaches of multiple sclerosis

Paper discussion

# Week 12: Stroke

Lecture 1: Clinical and neuropathological features of stroke

Lecture 2: Molecular mechanisms and therapeutic approaches of stroke

Paper discussion

# Week 13: Mental disorders

Lecture 1: Clinical and neuropathological features of mental disorders

Lecture 2: Molecular mechanisms and therapeutic approaches of mental disorders

Paper discussion

### Week 14: proposal discussion

# Week 15: proposal discussion

### **COURSES TO BE CREATED**

NeuroSc 7530: Bioethics

#### 1 semester hour

Class Schedule: 90 minute period meets once a week

### **COURSE DIRECTOR**

Dr. Georgia Bishop 292-8363 3187W Graves Hall bishop.9@osu.edu

#### OTHER FACULTY

Whereas, Dr. Bishop serves as course director and primary instructor, additional faculty will provide lectures in this course as noted on the class schedule below. They will provide contact information at the time of the lecture if there are questions.

# **COURSE DESCRIPTION:**

The goal of the **Bioethics Course** is to discuss issues related to the ethical conduct related to research, medicine, undergraduate teaching, working with animals, working with minors. Case studies will be presented and discussed by the class.

# ACADEMIC INTEGRITY (ACADEMIC MISCONDUCT)

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research. and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's Code of Student Conduct, and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's Code of Student Conduct and this syllabus may constitute "Academic Misconduct." The Ohio State University's Code of Student Conduct (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the university, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's Code of Student Conduct is never considered an "excuse" for academic misconduct, so I recommend that you review the Code of Student Conduct and, specifically, the sections dealing with academic misconduct. If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include suspension or dismissal from the University and a failing grade in this course. If you have any questions about the above policy, please contact me. Other sources of information on academic misconduct (integrity) include: COAM's web page (<http://oaa.osu.edu/coam/home.html>) "Eight Cardinal Rules of Academic Integrity" (<http://www.northwestern.edu/uacc/8cards.html>)

# GRADING:

Readings will be assigned prior to each class. A short quiz worth 5 points will be given at the beginning of the lecture (~ 10 minutes) on the assigned readings with the exception of the first lecture. It is possible to earn a cumulative total of 70 points. A grade of S/U will be given based on cumulative score on the quizzes (90%), attendance (5%) and class participation (5%).

# **OFFICE HOURS:** By appointment.

<u>ACCOMODATIONS FOR DISABLED STUDENTS:</u> Everything possible will be done to make every reasonable program or facility adjustment to assure success for each student.

# **SCHEDULE**

Week 1: Research and research misconduct

Week 2: OSHA regulations

Week 3: Ethical issues involving human subjects; IRB

Week 4: Ethical issues involving animal subjects; IACUC

Week 5: Ethics in Industry

Week 6: Applied ethics - examples and discussion

Week 7: Applied ethics - examples and discussion

Week 8: Authorship and publication issues

Week 9: Data management and record keeping

Week 10: Confidentiality

Week 11: Ethics of Collaboration

Week 12: Conflict of interest

Week 13: FERPA/HIPPA regulations

Week 14: Working with minors

Week 15: Summary and Discussion

# NeuroSc 7000.x RESEARCH/EDUCATION TECHNIQUES

#### Course goals:

**NeuroSc 7000.1:**This will provide the necessary skills for students who have a goal to work in a basic science or clinical research laboratory either in academia or industry. They will be assigned to laboratories where they will become competent in various lab skills including but not limited to animal handling, PCR, immunohistochemistry, genetic screening, CRISPR, maintenance of lab notebooks, basic data analysis. microscoov, etc. This will be a letter graded course.

Students will be assigned to a mentor who will guide them through research techniques. Each mentor will set up a schedule to introduce students to the research topic of their laboratory, assign them to a project under the mentor's supervision or an individual of their designation (senior graduate student, postdoctoral fellow). Student will be taught techniques relevant to an individual who will continue on in a research environment. They will be taught to troubleshoot issues when an experiment fails.

The student cannot learn every biomedical technique. However, they will be taught basic skills on how to research a technique they are not familiar with, go over established protocols for a procedure, describe the process to their mentor. In this way, they will know how to approach new techniques as they move through their career.

The student will be given their own project during Spring semester which will serve as the basis for their Capstone project.

#### General Schedule:

Summer Semester: Introduction to the lab and on-going projects.

Reading assignments related to research

Participate in lab meetings

Learn and carry out basic techniques used by the laboratory under supervision

Autumn Semester: More in depth appreciation of research and how it relates to other studies

Develop critical thinking on research project Participate in lab meeting and give reports

Begin to establish independence in carrying out projects

Assist in preparation of presentations/give presentation at local venues Participate in preparation of manuscripts from members of the lab.

Spring Semester: Design their own project with input from the mentor

Carry out the project

Participate in lab meetings and give reports

Establish independence in carrying out and trouble-shooting project

Present data at local or national meeting

If possible, prepare their own manuscript for publication with guidance

Summer Semester: Complete Capstone Project by writing a manuscript with introduction to the research

topic, methods, results, and discussion.

**NeuroSc 7000.2: Education Techniques.** Students intent on a career in an education setting (e.g., high school science, neuroscience courses at community or small liberal arts colleges) would be paired with a faculty member engaged in didactic teaching at the undergraduate and/or graduate level. These students will be assigned to a mentor with a primary focus in education where they will become competent in developing courses, giving lectures, grading exams, counseling students, etc. These will be a letter graded course.

Students will be assigned to a mentor with primary teaching responsibilities.

Summer Semester: Work with mentor on preparing syllabi, setting up Carmen websites, preparing

lecture material

Autumn Semester: Participate in the course(s) taught by mentor by preparing and giving their own

lectures

Set up review sessions or be available for student consultation

Assist in setting up, administering, and grading exams.

Begin to develop a course of their own

Attend UCAT workshops on course development

Spring Semester: Take on more responsibility for the established course by giving more lectures, more

student consultation, setting up Carmen site

Attend advanced UCAT workshops or take an elective in course development (see

above)

Create a syllabus and lecture material for their own course that is reviewed by their

mentor.

Summer Semester: Complete Capstone Project by completing development of a course, including lecture

material, exams, evaluation strategies, setting up course objectives and learning

goals.

# NeuroSC 7600.X CAPSTONE PROJECT

# NeuroSc 7600.1 (Research Track)

Course Description: This course is designed to provide a platform where students will demonstrate what they have learned from working in a research laboratory. It will be organized into three 4 week sessions. In the first session of the Summer Semester, students will design their own research projects and present them to a panel of their peers and faculty members in the program. This includes identifying an independent research project, presenting the rationale for carrying out the project including background (review of the literature), techniques to be used, and statistical technique to be applied to determine if results are significant. In addition to presenting their own project, students are expected to provide objective feedback to others in the course regarding their project. In the second Summer Session, students will give a report on the status of their project. They also will be expected to prepare a poster for presentation at a session that will include presentations from all students completing the Applied Master's in Neuroscience – Research Track. In the final session, they will prepare for their Master's Defense.

**Course Goal:** The Capstone course should allow the student to demonstrate basic skills of a research technician in the field of Neuroscience. This course will provide the students with an opportunity to demonstrate their knowledge and ability to design and carry out a research project.

#### Schedule:

The course will be divided into two 4 week sessions. The final exam will be carried out in the third 4 week session to meet Graduate School Deadlines for graduation summer term. Students will be divided into working subgroups to support each other and to provide feedback.

#### Session 1:

- Week 1: Identify research question to be addressed. Include background leading to study and its significance. Describe techniques to be used.
- Week 2: Discussion of statistical tests to be applied to obtain significance. For example, how many animals are needed, how many repetitions, etc.
- Week 3: Describe potential problems and how they will be addressed.
- Week 4: Discuss potential interpretation of data.

#### Session 2:

- Week 1: Preliminary results from experiments carried out.
- Week 2: Draft of poster presentation summarizing project
- Week 3: Preparation of poster presentation summarizing project.
- Week4: Poster presentation to peers and faculty. Prepare peer evaluation of assigned presentation.

#### Session 3:

Weeks 1- 3: Finalize manuscript and schedule Master's Defense including presentation of project to Master's committee and oral exam in accordance with graduate school schedule for graduation during summer semester

# NeuroSc 7600.2 (Education Track)

# **Course Description:**

In this course students will demonstrate how the knowledge and skills learned throughout the semester is applicable to development of an original course at the graduate or undergraduate level. It will be organized into three 4 week sessions. In the first session, students in the education track will prepare a sample class that covers 3 weeks of their curriculum. The students should demonstrate competency in understanding educational theory by their ability to define learning goals and objectives and mechanisms for assessing these goals. Material developed for the course should reflect defined learning goals and objectives. Students will prepare a syllabus and lecture material that will be reviewed by the mentor and the student's Master's committee. The student should be able to incorporate suggestions to improve their teaching skills. In the second session, they will demonstrate the ability to present a selected lecture to a class at an appropriate level for the student audience.(i.e., undergraduate students, graduate students). Other students in the track will serve as the "class" for each other's presentations. In the final session, they will prepare for their Master's Defense.

**Course Goal:** The Capstone course should allow the student to demonstrate basic skills of an educator in the field of Neuroscience. This course will provide the students with an opportunity to demonstrate their knowledge and ability to design and deliver course material.

#### Schedule:

The course will be divided into two 4 week sessions. The final exam will be carried out in the third 4 week session to meet Graduate School Deadlines for graduation summer term. Students will be divided into working subgroups to support each other and to provide feedback. Each week during the semester, students will submit a draft of the course they are developing. Feedback will be provided by their peer group and the mentor. Specific aspects of the course will be discussed each week.

#### Session 1:

- Week 1: Name of the course, level of instruction, need for this type of course, class size, prerequisites.
- Week 2: Learning Objectives and goals and how these are to be assessed.
- Week 3: Revision of course and/or learning objectives/goals based on peer and mentor feedback.
- Week 4: Syllabus preparation including all components that need to be included (https://ucat.osu.edu/bookshelf/teaching-topics/designing-a-course/what-did-you-put-in-your-syllabus/)

#### Session 2:

- Week 1: Example lecture in PPT format and example of assessment tool (i.e. examination over material in the sample course). Fill out form for submission of a course addressing all information needed.
- Week 2: Presentation of sample lecture to peers. Prepare peer evaluation of assigned presentations.
- Week 3: Presentation of sample lecture to peers. Prepare peer evaluation of assigned presentations.
- Week4: Presentation of sample lecture to peers. Prepare peer evaluation of assigned presentations.

#### Session 3:

Weeks 1- 3: Finalize course and schedule Master's Defense including presentation of course development, lecture material, learning objectives and goals, and assessment tools to Master's committee and oral exam in accordance with graduate school schedule for graduation during summer semester



Daniel M. Clinchot, MD College of Medicine

Vice Dean for Education Associate Vice President for Health Sciences Education

260 Meiling Hall 370 West 9th Avenue Columbus, OH 43210-1238

> 614-688-3104 Work 614-292-4499 Fax

Dan.Clinchot@osumc.edu

September 1, 2015

M . Scott Herness, Ph.D. Interim Vice Provost for Graduate Studies and Dean of the Graduate School 250 University Hall 230 North Oval Mall Columbus, Ohio 43210-1366

#### Dear Scott:

The College of Medicine has reviewed and fully endorses the proposed Master's Degree in Applied Neuroscience. The degree was unanimously endorsed by the College Education Review Committee on June 30, 2015. The consensus of the committee was that the proposed program is well thought out and sequenced and that the degree will facilitate advancement within the field of neuroscience. The program is designed to provide a clear pathway for students interested in a career related to neuroscience after they complete their undergraduate degree. The specific and unique design of this program as a post-baccalaureate degree that has an integrated Career Development and Pathways in Neuroscience components will allow students within the program to firmly explore and solidify the next phase along their career path.

In summary the College of Medicine fully endorses the proposed Master's Degree in Applied Neuroscience. The proposed Master's Degree in Applied Neuroscience has been appropriately approved by the College of Medicine and has the full support and endorsement of the Dean. We feel strongly that it will be a highly sought after program.

Sincerely,

Daniel M. Clinchot, MD Vice Dean for Education

College of Medicine

E. Christopher Ellison, MD Interim Dean, College of Medicine

& Olisighe Ellis



#### Neuroscience Graduate Program

John Oberdick, Ph.D. 4073 Graves Hall 333 W. 10<sup>th</sup> Ave. Columbus, Ohio 43210

> Phone: 614-292-8714 Fax: 614-688-8742

August 3, 2017

RE: NGP concurrence with new Masters in Applied Neuroscience

Dr. Georgia Bishop, PhD Professor, Department of Neuroscience The Ohio State University Wexner Medical Center

# Dear Georgia:

Thank you for discussing with me your plans for a new graduate program entitled Masters in Applied Neuroscience. As Co-Director of the Neuroscience Graduate Program (NGP), one of the four PhD-granting Interdisciplinary Graduate Programs in the Life Sciences at Ohio State, I have a deep interest in graduate-level training. Your plan for a new masters program meets an important critical need that is currently lacking at Ohio State. There are many students for whom a five-year PhD training program is not an option, and your proposed program would allow such students to demonstrate a graduate-level understanding of neuroscience principles and research, and better prepare them for the growing availability of neuroscience-related career opportunities.

Do not hesitate to contact me should any further input be needed as you move forward with plans for your new program.

Sincerely,

John Oberdick, Associate Professor of Neuroscience & Co-Director, Neuroscience Graduate Program (NGP)

Ohio State University Wexner Medical Center

# April 6, 2018, Board of Trustees meeting

From: <u>Bishop, Georgia</u>
To: <u>Schlueter, Jennifer</u>

Cc: Nelson, Randy; DeVries, Courtney; Herness, Scott; Toft, Jill A.; Clinchot, Dan

Subject: Re: proposed Master"s in Applied Neuroscience

Date: Tuesday, February 7, 2017 2:35:12 PM

#### Jennifer.

Thank you for the quick turn around. We tried to be very specific in defining the focus of the program. What is the committee really looking for? Some of the comments are a bit confusing. For example, the issue with the resume preparation. One goal of the program is to help students get jobs after completing the program. The intent of the Master's degree is to give them lab and teaching skills which qualifies them to work in a lab or in academia. However they also have to know how to prepare an excellent resume and to learn proper interview skills. My experience with undergrads, and even some grads is that these are skills that often are lacking or less than well-developed. With respect to the S/U grade, we have graduate courses in the Ph. D. Neuroscience Graduate Program with that grade designation such as journal clubs, seminars and independent studies. The 7520 course would fall into that category. Our major didactic courses all have letter grades. as would be expected. If necessary, we can change these courses to a letter grade. We would be happy to work with someone from UCAT. Just let me know if they are willing to help and who to contact. Are there any other specific comments we need to address? I do appreciate your help with this.

#### Georgia

From: Schlueter, Jennifer <schlueter.10@osu.edu>

Sent: Tuesday, February 7, 2017 10:17 AM

To: Bishop, Georgia

Cc: Toft, Jill A.; Herness, Scott

Subject: Re: proposed Master's in Applied Neuroscience

# Dear Georgia:

At our Feb 6 meeting, the combined Grad School/CAA curriculum subcommittee met and reviewed your revised proposal for a tagged master's in neuroscience. We noted the many ways in which you had revised the proposal to address our concerns, and I want you to know how grateful we are for that work.

However, the committee is still unsatisfied with some of the fundamental aspects of the proposal, including the focus of the program and its learning goals and assessment strategies. We talked at length about how much time you have put in to this proposal, how certain we are that this will, ultimately, be a valuable tagged master's, and how much we want it to succeed. But, because the proposal must still be vetted at several levels above us, we are concerned that it will not move through without a more complete overhaul. And so we are returning it to you for another pass.

My sense is that you have been striving to address our feedback in contained ways when the issues that have been raised by the subcommittee will require a more global overhaul of the proposal, with especially careful reflection on—and articulation of—its goals and aims. For one small example: the narrative in the revised proposal has worked to minimize the job market prep aspects (such as learning goals focused on resume creation) but the syllabus for Neuroscience 7520 is still a course that, as it stands, appears to be entirely about resume creation and interview preparation (and also

# April 6, 2018, Board of Trustees meeting

graded S/U, which seems less than rigorous for a tagged master's). In this way, the verbiage about the program seems not to fit with its developing content.

I have reached out to Alan Kalish.3, director of the University Center for the Advancement of Teaching, to see if his office could be approached for assistance in curriculum and program development. This is something they do all the time for various departments and programs across campus. He—or Teresa Johnson.674—would be delighted to work one on one with you and your colleagues to think through the aspirations you have for this tagged master's, to guide you toward a strengthened vision of your program, and to help you get that vision onto paper. I think that seeking his assistance is the right next step in your revision process, and I am happy to make the initial introduction if you would like.

The subcommittee and I thank you for your work on this proposal, and look forward to reading a revision. Let me know if you have questions.

Best,

### Jennifer Schlueter, PhD

Faculty Fellow for Curriculum, Graduate School
Associate Chair for Curriculum, Department of Theatre
Associate Professor | Lab Series Coordinator | Editor, Theatre/Practice
1108 Drake Center, 1849 Cannon Dr, Columbus, OH 43210
614-292-5821 | www.jenniferschlueter.com | theatre.osu.edu

From: "Schlueter, Jennifer" <schlueter.10@osu.edu>
Date: Tuesday, December 20, 2016 at 2:17 PM
To: "Bishop, Georgia" <bishop.9@osu.edu>

Cc: "Toft, Jill A." <toft.20@osu.edu>, "Herness, Scott" <herness.1@osu.edu>

Subject: proposed Master's in Applied Neuroscience

Dear Professor Bishop:

At our November meeting, the combined Grad School/CAA Curriculum Subcommittee (which I chair as Faculty Fellow) reviewed your revised request to approve the new Master of Applied Neuroscience.

The committee is grateful for your work to respond to the feedback from the Subcommittee last year on the first version of this proposal. On several points we still need further clarification and reframing, however.

1. The looming issue is still the focus of the program. As Catherine Montalto, last year's chair of

the GS/CAA Curriculum Subcommittee, wrote to you in item 2 of the attached notes here, "the focus, as currently written, appears to be on students who are unsuccessful in getting accepted to medical school, and the post-baccalaureate program is posited to somehow result in a strengthened re-application to professional school.... Yet, a tagged master's degree is usually viewed as a terminal degree that produces content and skills that lead to employment.... The committee struggled with identifying that goal." This revised proposal is still very soft in these respects. We note your statement, on page 1, that "potential career paths includ[e] medicine, research, academia, or industry." But more specifics throughout the proposal—indeed, in its bedrock aims—are needed to clarify that the true intent of the program is that of a terminal degree focused on employment. This is to say: what are you training students to do? At present, it seems as though the program's primary goal is still acceptance to medical school. To help this become clearer to the Subcommittees (and subsequent committees), specific job titles beyond "professions that are seeking applicants with some form of clinical and/or research experience..." are needed.

2. **Learning goals and assessment.** Learning Goals should express the core educational aims of the tagged Master's program at a level appropriate for graduate student, which usually expects that students have added new scholarship to the area (a thesis) or demonstrated mastery by applying this new knowledge to a unique situation (a capstone project, exam, or case study). Currently, the Learning Goals as articulated continue to be a mix of aims that are appropriate to a Master's program and that are merely skills that should be obtained along the way. For example: Learning Goal 5 ("Prepare a proper resume and demonstrate excellent interview skills") is merely a skill to be obtained. It is not an appropriate Learning Goal for a Master's program. And the fact that it continues to be included as such is part of what leads the Subcommittee to view this tagged Master's as focused on acceptance to medical school and not, as framed, as truly terminal.

In some cases, your Learning Goals mix Goals with Assessment strategies. For example: "2. Develop lab/clinical skills best suited for their individual goals as demonstrated by positive evaluations from their rotation mentors" combines an assessment strategy (positive evaluations) with the goal itself (development of lab/clinical skills). In addition, the inclusion of a phrase like "best suited for their individual goals" suggests a lack of innate focus on clear outcomes in the program itself. You may consider reaching out to Thomas Mitchell.815 or Amy Ferketich.1, Graduate School Faculty Fellows focused on assessment for assistance in this process.

Once your Learning Goals are reframed, Assessment strategies will need revision. The Subcommittee wondered if you were considering piloting the program in some way to assess its efficacy?

The Subcommittee wants to encourage you and your colleagues to spend time revisiting, reviewing, and revising this material because clarifying Master's-appropriate Learning Goals and Assessment strategies will, we believe, help you reframe this program (and therefore the proposal) to more effective ends than currently articulated.

# The rest of the concerns raised by the Subcommittee really spin out from these two larger concerns. They include:

1. **Neuroscience 6193.** This course will be repeated 3 times in the program for a total of 8-12 credits. We recognize your desire to keep the course flexible and emphasizing student interests and needs. However, this contributes to the sense that the overall tagged Master's is unfocused. It



Department of Neuroscience 4198 Graves Hall 333 W. 10<sup>th</sup> Avenue Columbus, OH 43210 Phone: (614) 688-8327 Fax: (614) 688-8742

Web: http://medicine.osu.edu/neuroscience

August 18, 2016

Dr. Scott Herness, Interim Vice Provost and Dean Graduate School 250D University Hall 230 N Oval Mall Columbus, OH 43210

Dear Dr. Herness,

The Department of Neuroscience would like to resubmit our proposal for a Master of Applied Neuroscience to the Council on Academic Affairs Curriculum Subcommittee. We have responded to the feedback and requests provided by the committee following our initial submission as follows.

- We have deleted all references to a Master of Science in the proposal and refer to it as a Master of Applied Neuroscience.
- We have clarified the focus of the program and clearly indicate that it is not a postbaccalaureate bridge program. We have now indicated how the degree will produce content and skill that leads to employment or advanced training.
- 3. The academic content for the lab rotations has been more clearly defined.
- We have included a description of how the program will prepare students for specific positions in industry or advanced degree programs.
- 5. We have included a syllabus in the appendix of the document for the proposed new courses.
- 6. We have contacted the Registrar's office and are in the process of developing a Degree Audit rather than using advising sheets. This will provide both the students and faculty access to information related to an individual's progress in the program. A draft is included in the Appendix.

- 7. We have described our special efforts to enroll and retain underrepresented groups in this proposal and will elaborate in the full proposal when it moves forward to the Ohio Department of Higher Education.
- 8. Learning goals have been revised as requested.

If you have any further questions, feel free to contact me. We thank you for your reconsideration of our proposal.

Sincerely yours,

Georgia Bishop, Ph.D. Professor and Vice Chair

Department of Neuroscience

Georgia Bistop

bishop.9@osu.edu 614-292-8363 DRAFT Proposal for Master of Applied Neuroscience
To: Georgia Bishop and Courtney DeVries
cc: Daniel M. Clinchot

Good afternoon.

The Graduate School/Council on Academic Affairs Curriculum Subcommittee met on Friday, December 4, 2015 and reviewed the proposal for a Master of Applied Neuroscience.

The committee's feedback and requests are summarized below.

- The committee assumes that the proposed program is a tagged master's degree, specifically a
  Master of Applied Neuroscience, but this should be clearly stated in the proposal. The last page
  of the proposal refers to a "Master of Science in Applied Neuroscience" in the "Assessment of
  Goals" section. If indeed the program is a tagged master's degree, the reference to a "Master of
  Science in Applied Neuroscience" should be removed.
- 2. The committee expressed concern that the focus of the Master of Applied Neuroscience program is under developed and not clearly articulated. Further, the focus, as currently written, appears to be on students who are unsuccessful in getting accepted to medical school, and the post-baccalaureate program is posited to somehow result in a strengthened re-application to professional school (for example, the program includes "teaching strategies for raising scores on standardized exams"). Yet, a tagged master's degree is usually viewed as a terminal degree that produces content and skill that leads to employment. The degree's name, Applied Neuroscience, suggests that the focus of the degree is to acquire advanced knowledge in the content area of neuroscience and be able to apply that knowledge towards some applied goal. The committee struggled with identifying that goal. The preparation of application to another professional program through a Master's degree is in itself not an academic goal. At times the proposal seemed more of a post-baccalaureate bridge program than a graduate program. Please clearly articulate the academic content of and the expertise in neuroscience developed through completion of this academic program.
- 3. Elaborate on the academic content students are likely to develop through the lab rotations in the first and second semesters (total of 6-10 credit hours). The final semester of enrollment includes 2-credit hours of independent studies "with focus on exam/dossier/application" -please elaborate on how the focus of this concluding experience is determined.
- 4. Additionally, describe the relationship between the content of the tagged master's degree program and specific positions in industry, allowing us to understand the "return" these students will receive to two more years of education, or the "value added" of this investment.
- For each of the proposed new courses, please provide a course syllabus; at a minimum the one page OAA syllabus template should be developed for each new course.
- 6. Please provide an advising sheet clearly communicating program requirements.
- 7. When this proposal moves forward to the Ohio Department of Higher Education, the special efforts to enroll and retain underrepresented groups will need to be fully developed and the special efforts that will be taken by faculty associated with the tagged master in applied neuroscience degree will need to be described. The guidelines for the full proposal can be accessed at this

link http://regents.ohio.gov/rgp/pdfs/RACGS%20Guidelines%20Approved%20102403.pdf

8. Please review the materials previously provided by Dean Herness to guide the development of learning goals and assessment that are measureable and appropriate to the level of instruction. The content in the learning goals, as currently written, appears to re-iterate the program focus, rather than outcomes for student learning. The expectation of a Master's degree is that a student has successfully demonstrated advanced knowledge in a specialized academic area. At the graduate level, the student should not only have successfully demonstrated the acquisition of new knowledge but additionally have added new scholarship to that area (a thesis) or been able to demonstrate mastery of this new knowledge by applying it to a new and unique situation (e.g. a capstone project). An assessment plan can clearly articulate these goals, i.e. what should the student be able to know or do by time s/he graduates?; where does the student acquire this knowledge?; how is the student expected to demonstrate competence/mastery of this knowledge?.

Please incorporate changes into a revised proposal and summarize these changes in a cover letter. Once this information is received, the committee will return to the review of the proposal.

Please let me know if you have additional questions.

Thank you.

Chair

Graduate School/Council on Academic Affairs Curriculum Subcommittee

### 1. DESIGNATION OF NEW DEGREE PROGRAM: Tagged Master's in Applied Neuroscience

#### RATIONALE FOR NEED FOR THE NEW DEGREE PROGRAM

The goal of the proposed Master's in Applied Neuroscience is to provide students with a Master's level curriculum that will provide both the didactic course work as well as research and clinical experiences that will prepare students for advanced training in a career in the biomedical field. Students who graduate with a Bachelor's Degree in Neuroscience may go into several different fields. A recent survey by the Undergraduate Neuroscience Major at The Ohio State University (OSU) determined that graduates of the program, (https://neurosciencemajor.osu.edu/careers-neuroscience) found employment in several areas including, Pharmaceutical Sales, Laboratory Technician, Science Writer, Science Advocacy, Lab Animal Care Technician, Sales Engineer, Special Education Assistant, Health Educator/Community Health Workers, Public Policy and several other areas. In general these positions have salaries ranging from \$25,000 to \$44,000 per year. A few positions had higher salaries, such as advertising, promotions and marketing managers (\$124,850) however, these required additional training and or additional work experience.

Students who had obtained a master's level education in Neuroscience had additional career opportunities including Nurse Practitioner, Physician's Assistant, Genetic Counselor, Biostatistician, Speech-Language Pathologist, and Public Health. Although many of these positions required additional training, the typical entry-level education requirement was a Master's Degree in a relevant scientific field (e.g., Neuroscience). Salaries increased significantly in these fields (\$73,000 to \$104,000). Finally, many students majoring in neuroscience are interested in pursuing an advanced degree in medicine, dentistry, veterinary medicine, neuropsychology, social work, clinical psychology, and academia, with the goal of becoming a professional research scientist, practitioner, and/or college professor. A Bachelor's degree in neuroscience can provide students with an excellent background for these programs and many easily make the transition from undergraduate to professional school. These students would not be the target population for this Master's degree. However, for others, decisions on a career path are not as clear and they may be in a position of deciding which career path is best for them. Further, many programs have additional requirements, beyond academics, such as clinical or research experience. The proposed tagged Masters in Applied Neuroscience is designed to prepare students for careers that require a Master's degree as the basis for acceptance into their programs as well as for students who want to enhance their marketability for professions that are seeking applicants with some form of clinical and/or research experience as well as an advanced knowledge base in a relevant scientific area.

The major focus will be on having candidates take graduate level courses which already have been developed for students in the Ph.D. program in Neuroscience. However, in addition to course work, there are additional factors that will make a student a more competitive candidate for these programs or positions. A key factor that will enhance their marketability is research or clinical experience at a level beyond what they may have carried out as undergraduate students as described below under Curriculum. The intent is not to make this a post-baccalaureate program, but rather to make it a rigorous program involving courses, as well as lab or clinical rotations.

The Master's in Applied Neuroscience at OSU will have a core curriculum that is Neuroscience based. However, it also will have components that would specifically focus on potential career paths including medicine, research, academia, or industry. Depending on individual student interests, we will propose different rotations that they could enter to further help them decide the proper career choice. For example, a student that might be interested in graduate school in Neuroscience to further pursue a career in academia would be placed in a research lab. A student considering medical school or physician assistant school would be assigned to a Neurologist or Neurosurgeon for a shadowing experience.

# 2. DESCRIPTION OF THE PROPOSED CURRICULUM

The proposal is to make this a 4 semester program. A minimum of 30 semester credit hours is required. To be in good standing in the Graduate School, a student must maintain a graduate cumulative point-hour ratio (CPHR) of 3.0 or better in all graduate credit courses and must maintain reasonable progress toward Graduate School or graduate program requirements. All instructors have been approved by the

Neuroscience Graduate Program and have P status in the Graduate School. All of the following are core courses that all students in the program will take. No Specializations are intended to appear on the student transcript. The proposed sequence of core courses is as follows.

#### Summer Semester: (3 Credit Hours)

NeuroSc xxxx: Pathways in Neuroscience – 3 Credit Hours (See description below)

## Autumn Semester (12 - 14 Credit Hours):

NeuroSc 7001 Foundations of Neuroscience I – 6 credit hours NeuroSc 7100 – Current Readings in Neuroscience – 1 Credit hour

NeuroSc 7510 – Pathways in Neuroscience– 2 Credit Hours (See description below)

NeuroSc 6193 – Individual Studies in Neuroscience (e.g., lab rotations, shadowing) – 3-5 credit hours

#### Spring Semester (12 – 14 Credit Hours)

NeuroSc 7002 Foundations of Neuroscience II – 6 credit hours

NeuroSc 7200.01 Neuroanatomy Laboratory (half semester) - 1 Credit Hour

NeuroSc 7050 - Neurobiology of Disease - 3 Credit Hours

NeuroSc 7520-Career Development - 2 credit hours

NeuroSc 6193 – Individual Studies in Neuroscience (e.g., lab Rotations, shadowing) – 3-5 credit

#### Summer Semester (7 credit hours):

NeuroSc 7530 - Bioethics – 1 credit hour (see description below)

NeuroSc 6193 – Individual Studies in Neuroscience with a focus on preparation of written and oral examination – 2 credit hours

NeuroSc 7890 – Seminar Topics in Neuroscience – 2 Credit Hours

This core curriculum (NeuroSc 7001, 7100, 7002, 7200.01, 7050, and 7890) is made up of well-established courses taken by students enrolled in the Neuroscience Graduate Program. These courses also are available to students in other graduate programs as well as undergraduate students in the Honor's Program. Finally, they are applicable for students seeking a graduate minor in Neuroscience. Thus, requiring them for students in the Master's of Applied Neuroscience underscores that this program is designed to provide a strong Neuroscience core curriculum as well as providing individualized career exploration opportunities.

In the NeuroSc 6193 course, lab rotation content will be designed by the student and their rotation mentor. As noted above, for students interested in an academic career, the goal is to have them demonstrate that they can design an experiment, carry it out, analyze data, present data to peers and faculty, and to produce a publication. They need to demonstrate that they have basic lab skills, are able to take direction, show attention to details and, most importantly, show critical thinking skills. Other students intent on a career in a clinical setting (e.g., medicine, clinical psychology, dentistry, nurse practitioner, physician assistant, etc.). For students interested in these careers, we would expect them to identify a clinical mentor (from a list of faculty willing to take on these students) and to work with him/her. This would not be a simple shadowing experience. The students would identify a specific area of interest or a subset of patients with a specific medical condition to research.

**Mentor Evaluation:** In addition to their letter grades in the core courses, students will receive a written evaluation from their rotation mentor at the end of each semester.

# **DESCRIPTION OF NEW COURSES TO BE DEVELOPED**

Three new courses are to be developed. These include, Pathways in Neuroscience, Career Development, and Bioethics. Although students will have different career goals, they will all participate in

these courses as this is designed to provide students with the basic skills needed to succeed at the next level regardless of their chosen career pathway. A description of these new courses follows.

The intent of the **Pathways in Neuroscience** course is to have it serve as a gateway that would expose students to faculty from different biomedical disciplines including Ph.D.s whose primary focus is research, Medical Doctors, Physician Assistants, Allied Medical Professionals, and other health related professionals as well as representatives from different biomedical-related industries, and faculty from small colleges. The intent is to make this an interactive course where discussions of pros and cons and future projections of workforce need for each career are discussed. Students would have the opportunity to ask questions and explore their interests. This course would be taught during the first summer semester in which the student is enrolled. Many students come in with a fairly firm idea of specifically what they want to do. However, this course would allow them to be exposed to other potential paths in case they decide to move their careers in a different direction. This would be an S/U graded course. Grading will be based on attendance and participation. See syllabus in Appendix.

The goal of the **Career Development** course is to provide students with the necessary skills needed to pursue a specific career path. Although students will have different career goals, they will participate in all sessions as this is designed to provide them with the basic skills needed to succeed at the next level regardless of their chosen career pathway. Skills to be taught include, but are not limited to:

- Development of the skills needed to prepare a resume/application for professional or graduate school. Students will develop their own resume which will be reviewed and critiqued by other students in the course.
- 2. Development of interviewing skills. Students will learn the art of having a successful interview through in-class sessions as well by participating in mock interviews. The mock interviews will be set up for the students and conducted by expert faculty in their chosen career track.
- 3. Development of strategies to improve test taking skills. Faculty skilled in the art of performing well on national standardized exams will provide insight on how different exams are designed and how students can develop strategies for studying and organizing material so that they improve their performance.
- 4. Development of excellent presentation skills by facilitating discussion/presentations of what they are doing during their individualized career rotations.

See syllabus in Appendix.

See syllabus in Appendix

The goal of the **Bioethics Course** is to discuss issues related to:

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Ethical issues involving human and/or animal subjects
HIPPA regulations
Applied Medical Ethics
IRB/IACUC regulations
Authorship and publication issues
Data management and record keeping
Peer review; Confidentiality
Issues of collaboration
Conflict of interest

# 3. FINAL EVALUATION OF STUDENTS - MASTER'S EXAMINATION

Committee: The Master's Examination Committee will be composed of at least two Graduate Faculty members including the student's advisor. The student's advisor may invite other graduate faculty members to participate as members of the committee. The advisor of each master's student will hold membership at the category P level in the Neuroscience Graduate Program. All members of the Master's Examination Committee will be present during the oral portion of the examination and will participate fully in questioning the student as well as in the discussion and decision on the result.

Examination: The final examination will consists of both written and oral components to evaluate students. For the written portion, students will be asked to write a substantial paper that is specifically related to their professional goals. They will submit a draft to the Master's Examination Committee which must be approved by all members. Once the draft is approved the students will write the formal document. For those interested in academia, industry, or research positons, the written portion of the examination will consist of a detailed report of research they carried out in their advisor's lab. This would include hypothesis development, background of the project, methods used to test the hypothesis, results and discussion of the findings. For those interested in clinical professions (medicine, occupational therapy, physical therapy, physician assistant, nurse practioner, etc) the document would be based on presentation of a neurological disorder based on their clinical rotation that provides details on the background of a patient's diagnosis, treatments carried out by the physician, prognosis, and research being carried out on the disease/disorder. All HIPPA guidelines will be followed to ensure anonymity of the selected patients.

**Evaluation:** After submission, the full paper will be reviewed by members of the Master's Examination Committee. When it is approved, students will have 2 weeks to prepare for an oral defense of their paper. At the oral defense, the focus will be on the paper itself, but topics from any of the courses they have taken may be included. The advisor will serve as the chair of the oral defense. Upon completion of the oral examination the Examination Committee will determine if the student has adequately addressed all guestions and vote to pass or not pass the student.

# 4. ADMINISTRATIVE ARRANGEMENTS FOR THE PROPOSED PROGRAM

The Department of Neuroscience within the College of Medicine will be the administrative unit that has primary responsibility for administering the program. The Director, co-director, and a committee of graduate faculty will have primary responsibility for developing a handbook that specifically defines the requirements and responsibilities of faculty and students in accordance with Graduate School Handbook. They also would be responsible for monitoring student progress. In addition to those duties specified in the Graduate School Handbook, the Neuroscience Master's Committee will develop and evaluate the curriculum, establish program policies, standards, and procedures, screen applicants for admission to the program and make final determinations on admission, approve programs of study (as to general program requirements) for students in the program, conduct reviews of students at the end of each semester, receive and act on petitions from graduate students, hear and respond to graduate student grievances, and conduct any other program business that may arise.

#### 5. EVIDENCE OF THE NEED FOR THE PROGRAM

Whereas several Ohio Universities offer Ph.D. degrees in Neuroscience that are primarily focused on a career in research, there are few Master's degree programs. Two of note are

Kent State University offers a Master's of Science in Neuroscience. Although it is defined as a Master's degree, preference is given to students applying for the Ph.D. Program. The description suggests that the Master's degree is given as a terminal degree for students that complete the core course work and who also have some research experience but for whatever reason choose to end their graduate training at that point.

**Wright State University** offers a Master's of Science in Physiology and Neuroscience. The purpose of the master's degree is to provide the student with a strong research-oriented background in one of several areas of physiology, biophysics, or neuroscience.

The Master's in Applied Neuroscience at OSU would have a core curriculum that is Neuroscience based. However, it also will have components that would specifically focus on individual student needs. Depending on individual student interests, we will propose different rotations that they could enter to further help them in achieving their future career goals, as described above.

In summary, this would be a unique program. It does not guarantee placement in a professional program but allows students to explore different possibilities in biomedical careers. Successful students would receive a Master's degree at the end of the program which is a tangible acknowledgement that they have

a certain level of expertise in a very important and rising biomedical field of study increasing their marketability and their likelihood of being admitted to a professional program, lab position, or industry related position. Students successfully completing the program would receive a letter of recommendation and a personal assessment.

#### 6. PROSPECTIVE ADMISSION TO THE PROGRAM

Admission to the program would be limited to students with a baccalaureate from accredited institutions. Additional criteria would include demonstration of high promise based on their current professional activities. The minimum GPA for admission would be 3.0, although on average we would expect higher GPAs in the area of 3.4-4.0. GRE scores would be expected to be >70% in verbal and quantitative examinations. The proposed class size is initially 30-50 students. This likely would grow as the program becomes established.

#### 7. SPECIAL EFFORTS TO ENROLL AND RETAIN UNDERREPRESENTED GROUPS

Individuals in underrepresented groups often have the greatest difficulty in enrolling in professional schools. The proposed major would critically evaluate applications from these individuals and make every effort to ensure they are included in the class. In addition, there are several colleges within Ohio (e.g., Central State University, Wilberforce) that are Historically Black Colleges and these would be the targets of selective mailings and visitations at career days to discuss the degree and encourage qualified students to apply.

# 8. AVAILABILITY AND ADEQUACY OF THE FACULTY AND FACILITIES AVAILABLE FOR THE NEW DEGREE PROGRAM.

No new facilities are required. We would need to recruit existing clinical faculty that are willing to serve as mentors to the students and to allow them to rotate with them in the clinics. Research faculty will be those with graduate status in the Neuroscience Graduate Program. Clinical faculty will be those with M or P graduate status. They will have TIUs in Departments such as Neurology, Neurosurgery, Psychiatry, Neuroradiology, Neuropathology, Anesthesia, Oral Biology, Orthodontics, University Laboratory Animal Resources (ULAR), Veterinary Biosciences, Veterinary Clinical Sciences, or Veterinary Preventive Medicine. Individual faculty will be identified based on the needs of the program each year.

# 9. NEED FOR ADDITIONAL FACILITIES AND STAFF AND THE PLANS TO MEET THIS NEED.

The program would need Administrative Associate assistance to support the operational aspects of the program. This individual would be a staff member in the Department of Neuroscience. In addition, we will need to support 4-5 Teaching Assistants. As the program grows, we may need to hire part-time lecturers.

#### PROJECTED ADDITIONAL COSTS ASSOCIATED WITH THE PROGRAM AND EVIDENCE OF INSTITUTIONAL COMMITMENT AND CAPACITY TO MEET THESE COSTS.

No additional costs are anticipated at this time. Attached is a letter of support and commitment from the Dean for Medical Education in the College of Medicine.

#### **APPENDIX 1**

#### LEARNING GOALS

Upon completion of the Master's of Applied Neuroscience, students should:

- Demonstrate an advanced knowledge base in the field of Neuroscience including cell and molecular neuroscience, neuroanatomy, neurophysiology, behavioral science, and translational neuroscience based on grades obtained in the core courses.
- Develop lab/clinical skills that are best suited for their individual goals as demonstrated by positive evaluations from their rotation mentors.
- Develop presentation skills to demonstrate their ability to communicate their research/clinical experience to their peers and to faculty in the program. The ultimate goal is to successfully defend their written document at the time of their Master's examination.
- Achieve a Master's Degree which will allow them to be more competitive for a positions in academia, medical schools, graduate schools, dental schools, veterinary schools, or industry.
- 5. Prepare a proper resume and demonstrate excellent interview skills by receiving a passing score in the Career Development Course.

#### Assessment of goals will be accomplished as follows.

- 1. Based on the written and oral portion of their final examination, the students should be able to convey to their Master's Examination Committee their neuroscience knowledge base. The written portion also allows them to convey to the Committee what they have accomplished during their rotations in a clear, concise and professional format. The Committee will determine if this goal is met following the oral portion of their examination.
- Students will demonstrate competency in the broad discipline of neuroscience based on grades obtained in the core curriculum which covers each of these topics.
- We will track students to identify what positions they take after successfully completing the Master's of Applied Neuroscience.
- 4. Resume preparation and interview skills will be evaluated in the Pathways in Neuroscience and Career Development courses that all students will be required to complete. Written feedback will be presented to the students on both their resumes and interview skills. They will not be given credit for the course until faculty determine these skills are achieved.
- 5. If students maintain a minimum 3.0 GPA in their courses and pass their oral and written examination, they will be awarded a Master's of Applied Neuroscience degree. We will track their success in being accepted into various professional programs. This will be essential for evaluating the effectiveness of the program.
- Student success rates in being accepted into their chosen career path will be calculated and used as a measure to improve the career focused aspects of the program.
- Periodically, alumni survey will be sent to graduates of the program requesting information on their current positions.

#### Appendix 2

**NEUROSC 7510: Pathways in Neuroscience** 

2 semester hours

Class Schedule: 90 minute period meets once a week

COURSE DIRECTOR Dr. Georgia Bishop 292-8363 3187W Graves Hall

bishop.9@osu.edu

#### OTHER FACULTY

Whereas, Dr. Bishop serves as course director and primary instructor, additional faculty will provide lectures in this course as noted on the class schedule below. They will provide contact information at the time of the lecture if there are questions.

WEBSITE: http://carmen.osu.edu

#### ACADEMIC INTEGRITY (ACADEMIC MISCONDUCT)

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's Code of Student Conduct, and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's Code of Student Conduct and this syllabus may constitute "Academic Misconduct." The Ohio State University's Code of Student Conduct (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the university, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's Code of Student Conduct is never considered an "excuse" for academic misconduct, so I recommend that you review the Code of Student Conduct and, specifically, the sections dealing with academic misconduct. If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include suspension or dismissal from the University and a failing grade in this course. If you have any questions about the above policy, please contact me. Other sources of information on academic misconduct (integrity) include: COAM's web page (<http://oaa.osu.edu/coam/home.html>) "Eight Cardinal Rules of Academic Integrity"

(<http://www.northwestern.edu/uacc/8cards.html>)

A grade of S/U will be given based on attendance and class participation.

OFFICE HOURS: By appointment.

ACCOMODATIONS FOR DISABLED STUDENTS: Everything possible will be done to make every reasonable program or facility adjustment to assure success for each student.

#### **COURSE DESCRIPTION:**

The intent of the Pathways in Neuroscience course is to have it serve as a gateway that would expose students to faculty from different biomedical disciplines including Ph.D.s whose primary focus is research, Medical Doctors, Physician Assistants, Allied Medical Professionals, and other health related professionals as well as representatives from different biomedical-related industries, and faculty from small colleges. The intent is to make this an interactive course where discussions of pros and cons and future projections of workforce need for each career are discussed. Students would have the opportunity to ask questions and explore their interests. This course would be taught during the first summer semester in which the student is enrolled.

Week 1: Introduction and Overview of course

Week 2: Ph. D. in Neuroscience - Research

Week 3: Ph. D. in Neuroscience - Research

Week 4: M.D. - Clinical

Week 5: M. D. - Clinical

Week 6: Physician Assistant/Nurse Practitioner

Week 7: Physical Therapist/Occupational Therapist

Week 8: Batelle (industry)

Week 9: Industry (e.g., pharmaceutical, biotechnology)

Week 10: Industry (e.g., pharmaceutical, biotechnology)

Week 11: Veterinarian/Dentist

Week 12: Faculty from small college

Week 13: Faculty from small college

Week 14: Dean for Admissions to Medical School

Week 15: Summary and Discussion

#### Svllabus NeuroSc 7520: Career Development in Neuroscience

#### 2 semester hours

Class Schedule: 90 minute period meets once a week

#### COURSE DIRECTOR Dr. Georgia Bishop

292-8363 3187W Graves Hall bishop.9@osu.edu

#### OTHER FACULTY

Whereas, Dr. Bishop serves as course director and primary instructor, additional faculty will provide lectures in this course as noted on the class schedule below. They will provide contact information at the time of the lecture if there are questions.

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(<http://www.northwestern.edu/uacc/8cards.html>)

A grade of S/U will be given based on attendance and class participation.

**OFFICE HOURS:** By appointment.

ACCOMODATIONS FOR DISABLED STUDENTS: Everything possible will be done to make every reasonable program or facility adjustment to assure success for each student.

#### **COURSE DESCRIPTION:**

The goal of the Career Development course is to provide students with the necessary skills needed to pursue a specific career path. Although students will have different career goals, they will participate in all sessions as this is designed to provide them with the basic skills needed to succeed at the next level regardless of their chosen career pathway.

### April 6, 2018, Board of Trustees meeting

Week 1: Introduction and Overview of course

Week 2: Resume preparation.

Week 3: Resume preparation and in-class review

Week 4: Art of the Interview

Week 5: Art of the Interview

Week 6: In-class practice interview

Week 7: In-class practice interview

Week 8: In-class practice interview.

Week 9: Development of strategies to improve test taking skills.

Week 10: Development of strategies to improve test taking skills.

Week 11: Student Presentations

Week 12: Student Presentations

Week 13: Student Presentations

Week 14: Student Presentations

Week 15: Summary and Discussion

#### Syllabus NeuroSc 7530: Bioethics

#### 2 semester hours

Class Schedule: 90 minute period meets once a week

#### COURSE DIRECTOR Dr. Georgia Bishop

292-8363 3187W Graves Hall bishop.9@osu.edu

#### OTHER FACULTY

Whereas, Dr. Bishop serves as course director and primary instructor, additional faculty will provide lectures in this course as noted on the class schedule below. They will provide contact information at the time of the lecture if there are questions.

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A grade of S/U will be given based on attendance and class participation.

**OFFICE HOURS:** By appointment.

ACCOMODATIONS FOR DISABLED STUDENTS: Everything possible will be done to make every reasonable program or facility adjustment to assure success for each student.

#### **COURSE DESCRIPTION:**

The goal of the Bioethics Course is to discuss issues related to the ethical conduct related to research, medicine, undergraduate teaching, working with animals, working with minors. Case studies will be presented and discussed by the class.

### April 6, 2018, Board of Trustees meeting

Week 1: Research and research misconduct

Week 2: HIPPA regulations

Week 3: Ethical issues involving human subjects; IRB

Week 4: Ethical issues involving animal subjects; IACUC

Week 5: Ethics in Industry

Week 6: Applied ethics - examples and discussion

Week 7: Applied ethics - examples and discussion

Week 8: Authorship and publication issues

Week 9: Data management and record keeping

Week 10: Confidentiality

Week 11: Ethics of Collaboration

Week 12: Conflict of interest

Week 13: FERPA regulations

Week 14: Working with minors

Week 15: Summary and Discussion



#### Department of Neuroscience

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Distinguished University Professor
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Chair in Brain Research and
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Department Of Neuroscience
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26 August 2015

Office of Academic Affairs 203 Bricker Hall 190 North Oval Mall Columbus, OH 43210-1358

To whom it may concern,

I am writing this letter in strong support of the proposed Master's in Applied Neuroscience that will be offered by the Department of Neuroscience.

#### Existing Programs:

The Department does not have specific undergraduate or graduate major programs. We actively participate in the Undergraduate Major in Neuroscience in conjunction with the Department of Psychology. As noted on the website for this major "The Neuroscience Signature Program is a joint venture by the College of Arts and Sciences and the College of Medicine." Faculty in the Department play a major role in the curriculum for this major, including teaching two of the required core courses (NeuroSc 3000: Introduction to Neuroscience and NeuroSc 3050: Structure and Function of the Nervous System). In addition, to these core courses, electives developed by faculty in the Department of Neuroscience include: NeuroSc 3010: Introduction to Neurophysiology; NeuroSc. 22025: History of Neuroscience; NeuroSc 4050: Neurogenetics; NeuroSc 4100: Basic and Clinical Foundations of Neurological Disease; NeuroSc 4623: Biological Clocks and Behavior; NeuroSc 4640: Neuronal Signal Transduction; NeuroSc 4850: Contemporary Topics in Neuroscience; NeuroSc 5644: Behavioral Endocrinology; NeuroSc 5790H: Developmental Neuroscience. In addition students can sign up for internships and research hours with individual faculty in the Department.

In addition to undergraduate teaching, we are also an integral part of the interdisciplinary Neuroscience Graduate Program. Several courses have been developed and are taught by faculty in this program including NeuroSc7001: Fundamentals of Neuroscience I; NeuroSc 7002: Fundamentals of Neuroscience II; NeuroSc 7050: Neurobiology of Disease; NeuroSc 7100: Current Topics in Neuroscience; NeuroSc 7200.01 and 7200.02: Neuroscience Laboratory; NeuroSc 7500: Neuroimmunlogy. In

2

addition, students register for research for their dissertation (NeuroSc 8999) with faculty in the department.

Through the Neuroscience Graduate Program, students in other graduate programs may apply for a minor in Neuroscience. They are required to take 12 hours of graduate level Neuroscience courses offered by the Department of Neuroscience.

Finally, faculty also participate in teaching medical students. One member of the faculty currently serves as Block Leader for the Neurological Block. Some of the students in this block are in a combined MD/Ph.D. program.

Taken together, the Department of Neuroscience has extensive experience in didactic teaching and research training of students at the undergraduate, graduate, and professional levels through interactions with existing programs.

#### Review Process

The faculty review student and peer evaluations of instruction annually. These evaluations are included in the annual review of faculty and where needed, steps needed to improve the curriculum are discussed with the faculty member's mentoring committee and me. In addition, faculty teaching in courses review student performance at each examination, and adjust material as needed when areas of difficulty are identified. Student input, especially at the graduate level, is sought during their annual review process. Peer evaluation is an essential component of this evaluation and faculty ask members of their mentoring committee to evaluate their teaching at least annually. If problems are identified, then they work together, with the course directors, to correct them.

Based on our experience at multiple student levels, I strongly support this proposed Master's in Applied Neuroscience Degree. I believe that it will fill a needed niche to help students identify the correct career path after completing their undergraduate degrees. I approve the proposed program.

Sincerely,

Randy J. Nelson,

MILL

Distinguished University Professor

Brumbaugh Chair in Brain Research and Teaching

Professor and Chair, Department of Neuroscience

PREPARED: 08/12/16 - 08:49 AM

CATALOG YEAR: 99993

888018888

GENED MASTER AUDIT PROGRAM CODE: NEURO-TEST

MASTER OF SCIENCE APPLIED NEUROSCIENCE

#### AT LEAST ONE REQUIREMENT HAS NOT BEEN SATISFIED

NO MASTER OF SCIENCE REQUIREMENTS

APPLIED NEUROSCIENCE

- APPLIED NEUROSCIENCE CORE - COMPLETE 9 COURSES

FROM: NEUROSC 7001,7002,7050,7100,7200.01,7890

- INDIVIDUAL STUDIES I - COMPLETE 3-5 HOURS

FROM: NEUROSC 6193

INDIVIDUAL STUDIES II - COMPLETE 3-5 HOURS

FROM: NEUROSC 6193

- INDIVIDUAL STUDIES III - COMPLETE 2 HOURS

FROM: NEUROSC 6193

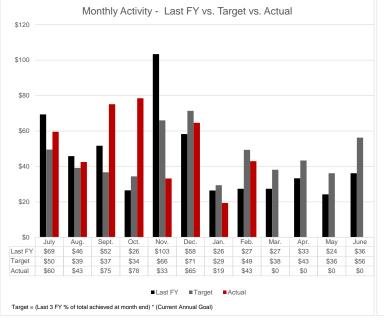
\*\*\*\*\* END OF ANALYSIS \*\*\*\*\*

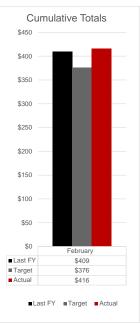
#### (APPENDIX LIX)



FY2018 New Fundraising Activity Report

Monthly Activity
7/1/2017 through 2/28/2018

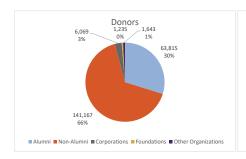


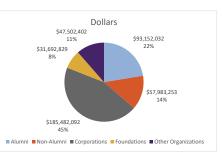




# FY2018 New Fundraising Activity Report Activity by Donor Type 7/1/2017 through 2/28/2018

	7/1/2017 -	2/28/2018	7/1/2016 -	2/28/2017	% Chang	je
	Donors	Dollars	Donors	Dollars	Donors	Dollars
Individuals						
Alumni	63,815	\$93,152,032	65,329	\$66,905,926	-2%	39%
Non-Alumni	141,167	\$57,983,253	134,870	\$44,514,460	5%	30%
Individuals	204,982	\$151,135,286	200,199	\$111,420,386	2%	36%
Organizations						
Corporations	6,069	\$185,482,092	6,040	\$108,401,342	0%	71%
Foundations	1,235	\$31,692,829	1,081	\$139,029,886	14%	-77%
Other Organizations	1,643	\$47,502,402	1,672	\$49,925,751	-2%	-5%
Organizations ==	8,947	\$264,677,322	8,793	\$297,356,980	2%	-11%
Grand Total	213,929	\$415,812,608	208,992	\$408,777,366	2%	2%







## FY2018 New Fundraising Activity Report Activity by Donor Type - Pelotonia Impact 7/1/2017 through 2/28/2018





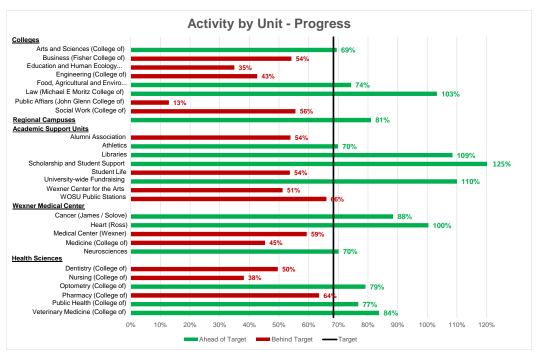
FY2018 New Fundraising Activity Report **Activity by Unit - Dollars** 7/1/2017 through 2/28/2018

					Other				
Unit	Alumni	Non-Alumni	Corporations	Foundations	Organizations	Total	Goal	% Achieved	vs. Target
University									
Colleges									
Arts and Sciences (College of)	\$13,267,100	\$5,739,875	\$1.805.653	\$1.648.481	\$5,321,368	\$27,782,478	\$40,000,000	69%	19
Business (Fisher College of)	\$6,831,868	\$316,789	\$3,980,376	\$566,127	\$227,367	\$11,922,526	\$22,000,000	54%	-149
Education and Human Ecology (College of)	\$1,133,027	\$126,624	\$1,155,301	\$215,310	\$514.126	\$3,144,388	\$9,000,000	35%	-339
Engineering (College of)	\$5,403,207	\$336,468	\$15,316,657	\$731,570	\$8,080,563	\$29,868,464	\$70,000,000	43%	-269
Food, Agricultural and Enviro Sciences (College of)	\$8,409,517	\$1,070,633	\$5.766.843	\$1,694,219	\$5.343.571	\$22,284,783	\$30,000,000	74%	69
Law (Michael E. Moritz College of)	\$807.307	\$72.854	\$125.875	\$4.835.929	\$353.125	\$6,195,090	\$6,000,000	103%	35%
								13%	-55%
Public Affairs (John Glenn College of)	\$82,500	\$49,144	\$11,500	\$42,276	\$71,903	\$257,323	\$2,000,000		
Social Work (College of)	\$250,191	\$29,443	\$211,141	\$143,330	\$199,277	\$833,381	\$1,500,000	56%	-139
Colleges	\$36,184,716	\$7,741,830	\$28,373,345	\$9,877,242	\$20,111,300	\$102,288,433	\$180,500,000	57%	-129
Regional Campuses									
OSU Lima	\$264,856	\$48,751	\$25,229	\$1,500	\$690	\$341,026	\$540,000	63%	-5%
OSU Mansfield	\$21,125	\$465,135	\$8,540	\$18,510	\$14,064	\$527,374	\$500,000	105%	379
OSU Marion	\$52,324	\$29,373	\$54,191	\$56,727	\$11,652	\$204,267	\$800,000	26%	-439
OSU Newark	\$486,030	\$397,358	\$31,200	\$151,036	\$0	\$1,065,624	\$800,000	133%	65%
Regional Campuses	\$824,335	\$940,616	\$119,161	\$227,773	\$26,406	\$2,138,290	\$2,640,000	81%	
	4024,333	\$340,010	\$113,101	<b>\$221,113</b>	\$20,400	\$2,130,230	\$2,040,000	0176	137
Academic Support Units	64 000 005	*****	6400 747	054 774	045.004	64.045.704	** ***	5.40/	-159
Alumni Association	\$1,269,005	\$141,034	\$108,717	\$51,774	\$45,234	\$1,615,764	\$3,000,000	54%	
Athletics	\$19,917,893	\$6,676,325	\$13,036,393	\$5,154,866	\$643,672	\$45,429,148	\$65,000,000	70%	29
Libraries	\$502,547	\$4,109,172	\$114,027	\$616,690	\$83,450	\$5,425,886	\$5,000,000	109%	40%
Scholarship and Student Support	\$10,361,173	\$635,243	\$271,524	\$1,031,870	\$1,451,219	\$13,751,029	\$11,000,000	125%	57%
Student Life	\$531,034	\$375,283	\$542,373	\$192,117	\$76,291	\$1,717,099	\$3,200,000	54%	-15%
University-wide Fundraising	\$1,478,391	\$571,032	\$105,551,792	\$486,547	\$775,687	\$108,863,450	\$98,960,000	110%	429
Wexner Center for the Arts	\$245,753	\$208,738	\$190,280	\$2,146,078	\$26,450	\$2,817,299	\$5,500,000	51%	-179
WOSU Public Stations	\$1,683,797	\$1,874,921	\$706,118	\$480,560	\$1,192,954	\$5,938,349	\$9,000,000	66%	-29
Academic Support Units	\$35,989,593	\$14,591,748	\$120,521,224	\$10,160,503	\$4,294,956	\$185,558,024	\$200,660,000	92%	249
University	\$72,998,645	\$23,274,194	\$149,013,730	\$20,265,517	\$24,432,662	\$289,984,747	\$383,800,000	76%	79
Medical and Health Sciences									
Wexner Medical Center									
Cancer (James / Solove)	\$6,068,506	\$16,982,160	\$26,370,486	\$5,121,438	\$7,382,111	\$61,924,701	\$70,000,000	88%	209
Heart (Ross)	\$305,311	\$10,406,036	\$432,963	\$346,100	\$558,170	\$12,048,580	\$12,000,000	100%	329
Medical Center (Wexner)	\$1,069,374	\$1,205,771	\$4,182,244	\$1,497,470	\$6,289,207	\$14,244,067	\$24,000,000	59%	-99
Medicine (College of)	\$2,000,433	\$644.919	\$1,157,694	\$630,648	\$2,361,347	\$6,795,041	\$15,000,000	45%	-239
Neurosciences	\$237,179	\$1,933,960	\$975,330	\$659,700	\$2,505,361	\$6,311,530	\$9,000,000	70%	29
<u> </u>	\$9,680,803	\$31,172,846	\$33,118,716	\$8,255,356	\$19.096.197	\$101,323,918	\$130,000,000	700/	109
Wexner Medical Center	\$9,680,803	\$31,172,846	\$33,118,716	\$8,255,356	\$19,096,197	\$101,323,918	\$130,000,000	78%	10%
Health Sciences Colleges									
Dentistry (College of)	\$2,367,431	\$38,710	\$482,995	\$339,239	\$244,466	\$3,472,842	\$7,000,000	50%	-19%
Nursing (College of)	\$908,941	\$179,630	\$35,711	\$315,366	\$467,802	\$1,907,450	\$5,000,000	38%	-30%
Optometry (College of)	\$168,792	\$38,302	\$684,312	\$103,550	\$271,770	\$1,266,726	\$1,600,000	79%	119
Pharmacy (College of)	\$617,234	\$138,563	\$674,566	\$308,080	\$1,183,755	\$2,922,198	\$4,600,000	64%	-5%
Public Health (College of)	\$266,964	\$32,223	\$99,083	\$206,208	\$930,452	\$1,534,930	\$2,000,000	77%	89
Veterinary Medicine (College of)	\$6,143,223	\$3,108,785	\$1,372,980	\$1,899,513	\$875,297	\$13,399,797	\$16,000,000	84%	159
Health Sciences Colleges	\$10,472,585	\$3,536,213	\$3,349,646	\$3,171,955	\$3,973,543	\$24,503,943	\$36,200,000	68%	-19
Medical and Health Sciences	\$20,153,388	\$34,709,059	\$36,468,363	\$11,427,311	\$23,069,740	\$125,827,861	\$166,200,000	76%	79
Grand Total	\$93,152,032	\$57.983.253	\$185.482.092	\$31.692.829	\$47.502.402	\$415.812.608	\$550,000,000	76%	79
Grand Total	-50,102,552	401,000,200	-100,402,002	40.,002,020	\$41,002,40Z	,			
Toront - (Lent 2 EV 9) of total askinson at month and 1 (Current Annual Confidence						Year	to Date Target	68%	



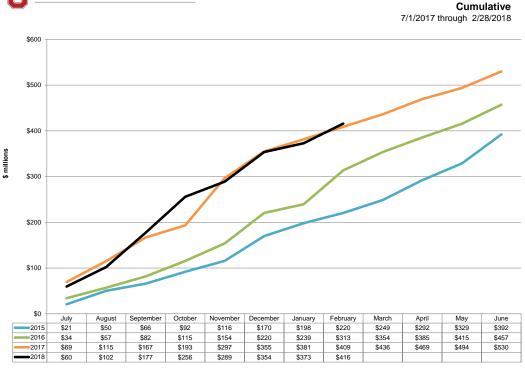
FY2018 New Fundraising Activity Report

Activity by Unit - Progress
7/1/2017 through 2/28/2018



Target = (Last 3 FY % of total achieved at month end) \* (Current Annual Goal)

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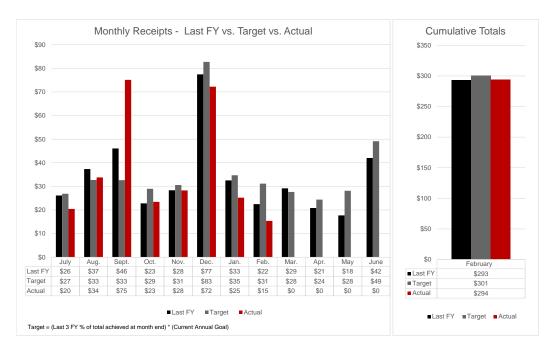
FY2018 New Fundraising Activity Report

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## THE OHIO STATE UNIVERSITY

FY2018 Philanthropic Receipts Report

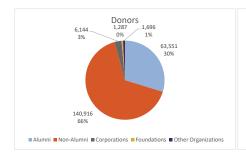
Monthly Receipts
7/1/2017 through 2/28/2018





#### FY2018 Philanthropic Receipts Report **Receipts by Donor Type** 7/1/2017 through 2/28/2018

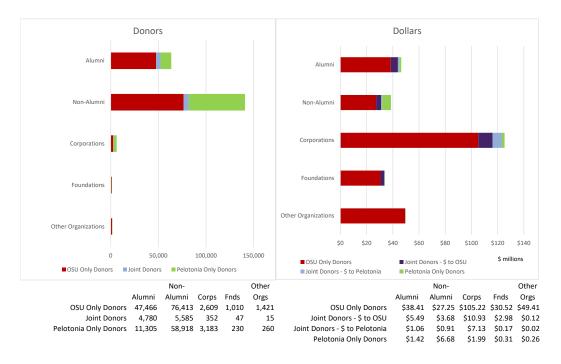
	7/1/2017 -	2/28/2018	7/1/2016 -	2/28/2017	% Chang	je
	Donors	Dollars	Donors	Dollars	Donors	Dollars
Individuals						
Alumni	63,551	\$46,383,271	65,868	\$55,530,238	-4%	-16%
Non-Alumni	140,916	\$38,518,106	135,182	\$40,800,069	4%	-6%
Individuals	204,467	\$84,901,377	201,050	\$96,330,307	2%	-12%
Organizations						
Corporations	6,144	\$125,269,941	6,162	\$99,728,680	0%	26%
Foundations	1,287	\$33,991,361	1,130	\$46,958,087	14%	-28%
Other Organizations	1,696	\$49,809,278	1,742	\$50,205,163	-3%	-1%
Organizations ==	9,127	\$209,070,579	9,034	\$196,891,930	1%	6%
Grand Total	213,594	\$293,971,956	210,084	\$293,222,237	2%	0%







## FY2018 Philanthropic Receipts Report Receipts by Donor Type - Pelotonia Impact 7/1/2017 through 2/28/2018





FY2018 Philanthropic Receipts Report Receipts by Unit - Dollars 7/1/2017 through 2/28/2018

Year to Date Target

70%

					Other				
Unit	Alumni	Non-Alumni	Corporations	Foundations	Organizations	Total	Goal	% Achieved	vs. Target
University									
Colleges									
Arts and Sciences (College of)	\$4,493,247	\$1,785,925	\$2,856,178	\$2,331,127	\$5,392,196	\$16,858,674	\$30,000,000	56%	-14%
Business (Fisher College of)	\$2,783,482	\$249,726	\$3,488,376	\$616,127	\$330,048	\$7,467,758	\$10,000,000	75%	5%
Education and Human Ecology (College of)	\$830,188	\$176,654	\$1,218,351	\$215,310	\$514,246	\$2,954,749	\$8,000,000	37%	-33%
Engineering (College of)	\$3,272,202	\$676,918	\$13,885,566	\$1,199,542	\$8,280,698	\$27,314,925	\$52,000,000	53%	-17%
Food, Agricultural and Enviro Sciences (College of)	\$2,434,906	\$1,600,079	\$5,455,341	\$1,695,919	\$5,485,665	\$16,671,909	\$25,000,000	67%	-3%
Law (Michael E. Moritz College of)	\$1,330,904	\$54,698	\$250.875	\$1,265,929	\$38,125	\$2,940,532	\$5,000,000	59%	-11%
Public Affairs (John Glenn College of)	\$230.888	\$79,144	\$11,500	\$97,276	\$72,522	\$491,330	\$1,700,000	29%	-41%
Social Work (College of)	\$147.250	\$39,443	\$1,411,141	\$74,470	\$149,277	\$1.821.581	\$3,000,000	61%	-9%
Colleges	\$15,523,067	\$4,662,587	\$28,577,326	\$7,495,701	\$20,262,776	\$76,521,457	\$134,700,000	57%	
	\$15,525,067	\$4,002,307	\$20,577,320	\$7,495,701	\$20,202,776	\$76,521,457	\$134,700,000	5/%	-13%
Regional Campuses									
OSU Lima	\$135,194	\$29,251	\$46,229	\$26,500	\$5,690	\$242,863	\$500,000	49%	
OSU Mansfield	\$32,050	\$66,135	\$86,207	\$15,895	\$16,064	\$216,350	\$600,000	36%	
OSU Marion	\$81,791	\$109,393	\$67,191	\$697,577	\$11,652	\$967,604	\$1,100,000	88%	
OSU Newark	\$360,403	\$92,358	\$31,200	\$171,036	\$0	\$654,996	\$1,200,000	55%	-15%
Regional Campuses	\$609,437	\$297,136	\$230,827	\$911,008	\$33,406	\$2,081,813	\$3,400,000	61%	-9%
Academic Support Units									
Alumni Association	\$990,184	\$131,034	\$118,717	\$51,774	\$45,309	\$1,337,018	\$2,000,000	67%	-3%
Athletics	\$10.086.566	\$7.922.311	\$11,265,562	\$4,576,458	\$1,572,872	\$35,423,768	\$58,000,000	61%	-9%
Libraries	\$808.272	\$1,030,511	\$114.027	\$626,490	\$33,450	\$2,612,749	\$4,000,000	65%	-5%
Scholarship and Student Support	\$2,344,044	\$698,455	\$326.549	\$1,233,104	\$1.835.042	\$6,437,193	\$35,000,000	18%	
Student Life	\$339,668	\$321,658	\$432,473	\$394,117	\$26,291	\$1,514,208	\$2,000,000	76%	
University-wide Fundraising	\$1,579,984	\$592,946	\$55,608,692	\$486.547	\$819.304	\$59,087,474	\$39,100,000	151%	
Wexner Center for the Arts	\$245,753	\$207,713	\$445,680	\$2,146,078	\$27,936	\$3,073,160	\$6,000,000	51%	
WOSU Public Stations	\$943,910	\$1,680,778	\$807,644	\$331,330	\$1,194,440	\$4,958,102	\$10,000,000	50%	
=									
Academic Support Units	\$17,338,382	\$12,585,405	\$69,119,344	\$9,845,898	\$5,554,644	\$114,443,674	\$156,100,000	73%	3%
University	\$33,470,886	\$17,545,127	\$97,927,498	\$18,252,607	\$25,850,826	\$193,046,944	\$294,200,000	66%	-4%
Medical and Health Sciences									
Wexner Medical Center									
Cancer (James / Solove)	\$4,922,672	\$12,932,040	\$15,495,253	\$6,244,438	\$7,470,377	\$47.064.780	\$54,000,000	87%	17%
Heart (Ross)	\$144,311	\$1,415,871	\$348,773	\$431,100	\$558,170	\$2.898.225	\$8,000,000	36%	
Medical Center (Wexner)	\$1.042.261	\$1,163,801	\$5,208,244	\$1,427,470	\$5.244.032	\$14.085.808	\$23,000,000	61%	
Medicine (College of)	\$1,058,302	\$302.868	\$1,209,793	\$2.819.616	\$2,411,397	\$7.801.977	\$13,000,000	60%	
Neurosciences	\$1,463,942	\$1,614,459	\$1,031,580	\$1,406,675	\$2,525,611	\$8.042.266	\$11,000,000	73%	
=						1.7. 7			
Wexner Medical Center	\$8,631,488	\$17,429,038	\$23,293,643	\$12,329,299	\$18,209,588	\$79,893,056	\$109,000,000	73%	3%
Health Sciences Colleges									
Dentistry (College of)	\$2,043,162	\$46,544	\$513,845	\$559,239	\$250,466	\$3,413,256	\$5,000,000	68%	
Nursing (College of)	\$415,982	\$165,680	\$35,711	\$315,366	\$2,219,802	\$3,152,541	\$2,800,000	113%	43%
Optometry (College of)	\$254,811	\$47,115	\$505,145	\$103,550	\$296,770	\$1,207,391	\$1,400,000	86%	
Pharmacy (College of)	\$552,347	\$104,563	\$908,654	\$308,080	\$1,185,755	\$3,059,399	\$4,200,000	73%	3%
Public Health (College of)	\$71,394	\$32,223	\$99,083	\$206,208	\$954,426	\$1,363,333	\$1,400,000	97%	
Veterinary Medicine (College of)	\$943,202	\$3,147,815	\$1,986,362	\$1,917,013	\$841,644	\$8,836,036	\$12,000,000	74%	4%
Health Sciences Colleges	\$4,280,897	\$3,543,940	\$4,048,800	\$3,409,455	\$5,748,864	\$21,031,956	\$26,800,000	78%	9%
Medical and Health Sciences	\$12.912.385	\$20.972.979	\$27.342.443	\$15.738.754	\$23.958.451	\$100,925,012	\$135,800,000	74%	4%
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Grand Total	\$46,383,271	\$38,518,106	\$125,269,941	\$33,991,361	\$49,809,278	\$293,971,956	\$430,000,000	68%	-2%

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FY2018 Philanthropic Receipts Report Receipts by Unit - Donors 7/1/2017 through 2/28/2018

Unit	Alumni	Non-Alumni	Corporations	Foundations	Other Organizations	Total
University						
Colleges						
Arts and Sciences (College of)	4,991	3,343	143	88	149	8,714
Business (Fisher College of)	2,399	1,198	163	54	38	3,852
Education and Human Ecology (College of)	2,718	1,272	66	35	65	4,156
Engineering (College of)	3,645	1,976	333	76	119	6,149
Food, Agricultural and Enviro Sciences (College of)	2,771	2,681	418	67	273	6,210
Law (Michael E. Moritz College of)	821	417	29	29	11	1,307
Public Affairs (John Glenn College of)	353	267	21	19	15	675
Social Work (College of)	418	237	17	15	12	699
Colleges	16,734	10,977	1,025	340	633	29,709
Regional Campuses						
OSU Lima	139	162	9	2	5	317
OSU Mansfield	140	179	24	5	9	357
OSU Marion	176	214	22	14	9	435
OSU Newark	151	162	2	9	0	324
Regional Campuses	604	706	57	30	23	1,420
Academic Support Units						
Alumni Association	6,513	3,369	75	28	35	10,020
Athletics	4,978	4,314	696	63	60	10,111
Libraries	367	476	15	11	10	879
Scholarship and Student Support	3,839	2,934	133	73	104	7,083
Student Life	865	1,760	45	28	14	2,712
University-wide Fundraising	8,366	7,660	284	71	97	16,478
Wexner Center for the Arts	877	1,451	37	34	7	2,406
WOSU Public Stations	9,439	21,004	138	121	58	30,760
Academic Support Units	29,965	39,386	1,231	373	358	71,313
University	42,490	48,157	2,104	684	961	94,396
Medical and Health Sciences						
Wexner Medical Center						
Cancer (James / Solove)	21,800	93,495	4,027	494	542	120,358
Heart (Ross)	563	1,105	36	13	26	1,743
Medical Center (Wexner)	1,433	2,375 903	217	60	103	4,188
Medicine (College of) Neurosciences	1,624 731	1,293	33 64	45 49	57 57	2,662
_						2,194
Wexner Medical Center	25,069	97,923	4,277	623	724	128,616
Health Sciences Colleges						
Dentistry (College of)	755	484	69	13	27	1,348
Nursing (College of)	977	451	20	11	30	1,489
Optometry (College of)	407	225	35	9	19	695
Pharmacy (College of)	591	325	34	16	21	987
Public Health (College of)	208	121	8	6	16	359
Veterinary Medicine (College of)	1,395	1,449	98	43	46	3,031
Health Sciences Colleges	4,256	3,018	255	95	152	7,776
Medical and Health Sciences	28,616	100,445	4,487	701	844	135,093
Grand Total	63,551	140,916	6,144	1,287	1,696	213,594

NOTE: donors may give to multiple units but are only counted once in totals



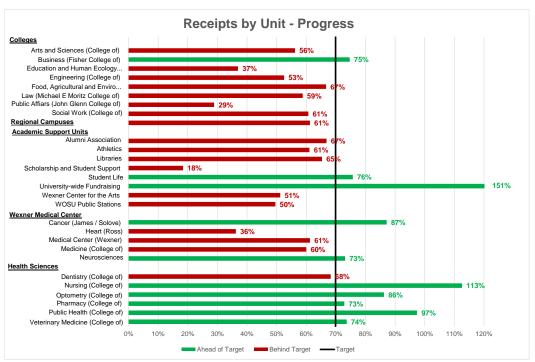
FY2018 Philanthropic Receipts Report **Receipts - Complex Giving** 7/1/2017 through 2/28/2018

		7/1/2017 - 2/28/2018		7/1/2016 - 2/28/2017		% Change	
		Donors	Dollars	Donors	Dollars	Donors	Dollars
Outright Gifts							
Securities		454	\$4,403,203	444	\$4,271,678	2%	3%
Real Estate		1	\$84,450	1	\$427,000	0%	-80%
Gifts-in-Kind		841	\$6,973,332	697	\$9,898,713	21%	-30%
	Total Receipts	1,287	\$11,460,984	1,134	\$14,597,391	13%	-21%
Planned Gifts							
Charitable Trusts	s & Gift Annuities	25	\$2,803,976	25	\$3,076,314	0%	-9%
Binding Donor A	dvised Funds	1	\$5,000	0	\$0		
Estate Commitm	nents	126	\$11,800,720	105	\$14,092,795	20%	-16%
	Total Receipts	152	\$14,609,695	129	\$17,169,109	18%	-15%
	Grand Total	1,439	\$26,070,680	1,263	\$31,766,500	14%	-18%

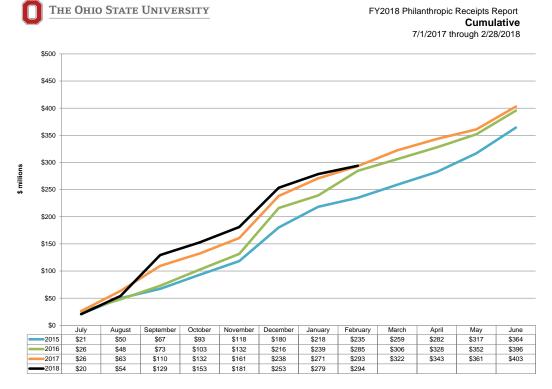
NOTE: donors may give through multiple gift types but are only counted once in totals



FY2018 Philanthropic Receipts Report **Receipts by Unit - Progress** 7/1/2017 through 2/28/2018



Target = (Last 3 FY % of total achieved at month end) \* (Current Annual Goal)



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	Amount Establishing <u>Endowment</u>	Total <u>Commitment</u>
Establishment of Named Designated Professorship (University)		
The Dr. H. Lee "Buck" Mathews Designated Professorship in Marketing Established April 6, 2018, with a gift from Steven Trulaske (MA 1980, MBA 1982); used to support a distinguished teacher, researcher, and scholar in the Department of Marketing & Logistics.	\$45,000.00 Per year for four years	\$180,000.00
Change in Name and Description of Named Endowed Fund (University)		
From: The Dairy Science Chair in Lactational Physiology and Mammary Health To: The Dairy Science Fund in Lactational Physiology and Mammary Health		
Establishment of Named Endowed Chair (Foundation)		
The Saul and Sonia Schottenstein Chair in Israel Studies Established February 11, 2011, with gifts from the estate of Saul Schottenstein via his trustee, Susan Schottenstein Diamond; used to support an endowed chair position dedicated to Israel Studies in the College of Arts and Sciences. Revised and position established April 6, 2018.	\$2,005,476.67	\$2,005,476.67
Establishment of Named Endowed Professorship (Foundation)		
Edwin H. and E. Christopher Ellison Professorship Established April 6, 2018, with gifts from colleagues, family, and friends and a fund transfer from OSU Surgery LLC to honor the accomplishments of the late Dr. Edwin H. Ellison and of his son, Dr. E. Christopher Ellison, as both physicians have made a significant impact on the field of general surgery at The Ohio State University; used to support a professorship for a nationally or internationally recognized physician faculty member in clinical or academic leadership in the field of surgery. Revised and position established April 6, 2018.	\$1,008,360.00	\$1,008,360.00
Establishment of Named Endowed Funds (Foundation)		
College of Medicine Dean's Discretionary/Priority Fund Established April 6, 2018, with an estate gift from Max Gerke (MD 1951); used at the discretion of the dean of the College of Medicine.	\$482,456.80	\$482,456.80
The Dr. H. Lee "Buck" Mathews Professorship Fund in Marketing Established April 6, 2018, with a gift from Steven Trulaske (MA 1980, MBA 1982); distribution shall be held in the distribution account or reinvested in the endowment principal until March 30, 2021. Should the gifted endowment principal balance reach \$1,000,000 on or before March 30, 2021, the endowment shall be revised and used to support a distinguished teacher, researcher, and scholar in the Department of Marketing & Logistics. Should the gifted endowment principal balance not reach \$1,000,000 on or before March 30, 2021, the endowment shall be revised and used by the chair of the Department of Marketing & Logistics.	\$200,000.00	\$1,000,000.00

The Phyllis Burton Donovan Scholarship Fund Established April 6, 2018, with gifts from Timothy R. Donovan (BS 1978) and Elaine K. Donovan; used to provide renewable scholarship(s) to a student(s) who demonstrate financial need with preference given to candidates who graduated from South High School in Columbus, Ohio (or successor in interest).	\$130,245.60	\$130,245.60
Phyllis Cummins and Donald Dyche Real Estate Endowed Fund Established April 6, 2018, with gifts from Phyllis Cummins (BS 1973) and Donald Dyche; used to support a speaker series to bring real estate professionals and other industry leaders to Columbus to participate in targeted lectures and discussions specific to the real estate industry.	\$100,000.00	\$100,000.00
The Lewis Family Scholarship Fund Established April 6, 2018, with gifts from Brian W. (BA 1976) and Sherri Lyn Lewis; used to provide merit-based, tuition-only scholarships to undergraduate students enrolled in the College of Arts and Sciences who are studying in the Department of Geography and have a minimum 3.0 grade point average with preference given to candidates who are majoring in geographic information science and interested in cartography.	\$70,000.00	\$70,000.00
Lilja Hill Endowed Scholarship Fund Established April 6, 2018, with gifts from James R. (BME 1969) and Judith L. (BSN 1969) Hill; used to provide renewable scholarships to undergraduate students from the state of Ohio who are ranked as juniors or seniors, have a minimum 2.5 grade point average, and are involved in a student organization(s), volunteer in the community, and demonstrate leadership abilities. Fifty percent of the annual distribution shall be awarded to candidates who are enrolled in the College of Nursing and fifty percent shall be awarded to candidates who are enrolled in the College of Engineering with a major in the Department of Mechanical and Aerospace Engineering.	\$60,175.00	\$60,175.00
Greater Jacksonville Undergraduate Scholarship Fund Established April 6, 2018, with gifts from the Ohio State Alumni Club of Greater Jacksonville; used to provide scholarships to undergraduate students with first preference given to students from the greater Jacksonville, Florida area.	\$60,000.00	\$60,000.00
David and Martha Rader Endowed Scholarship Fund Established April 6, 2018, with a gift from Mr. David (BA 1968) and Dr. Martha (BS 1968, MS 1982, PhD 1986, MPH 2008) Rader; used to provide scholarships to undergraduate students from southern Ohio or West Virginia who demonstrate financial need and are pursuing a degree in the STEM (science, technology, engineering, and math) pathway.	\$60,000.00	\$60,000.00
The Richard L. and C. Joyce Brown Endowed Scholarship Fund Established April 6, 2018, with gifts from Richard L. Brown and C. Joyce Brown; used to provide scholarships to incoming first-year students enrolled at The Ohio State University at Marion who are majoring in Education, have attended Marion Harding High School for at least their junior and senior years of high school education and were in the top one-third of their graduating class.	\$58,604.99	\$58,604.99
Phillip and Suzanne Faulkner International Scholarship Fund Established April 6, 2018, with a gift from Phillip Faulkner (BS 1958) as part of the Joseph A. Alutto Global Leadership Initiative; used to provide scholarships to undergraduate or graduate students enrolled in the Max M. Fisher College of Business who are pursuing critical, action-based learning experiences around the world.	\$57,500.00	\$57,500.00

The Terry Rue Schultz Scholarship Fund for Clinical Excellence Established April 6, 2018, with gifts from family, friends, and colleagues; used to provide one scholarship to a fourth year student enrolled in the College of Optometry who demonstrates leadership abilities and excels with patient care.	\$57,296.78	\$57,296.78
Paul and Sandra Watkins Endowed Fund for University Archives Established April 6, 2018, with gifts from Paul E. (BS 1958) and Sandra J. Watkins and friends; used for the operations of the University Archives.	\$56,261.01	\$56,261.01
Class of 1985 Veterinary Student Endowed Scholarship Fund Established April 6, 2018, with gifts from the College of Veterinary Medicine Class of 1985; used to provide scholarships to students enrolled in the College of Veterinary Medicine.	\$55,900.00	\$55,900.00
The Gillian Groves and Gerald Petersen Endowed Scholarship Fund for Women in Engineering Established April 6, 2018, with gifts from Gillian Groves (BS 1979, BS 1982) and Gerald Petersen; used to provide one or more scholarships to undergraduate and/or graduate students enrolled in the College of Engineering who are participants in the Women in Engineering program and have a minimum 3.0 grade point average with preference given to candidates who are ranked second year or higher.	\$55,700.00	\$55,700.00
The Dr. Joe Barr and Dr. Mary Jo Stiegemeier Endowed Fund for the Advancement of Cornea and Contact Lens Education in the College of Optometry Established April 6, 2018, with gifts from Dr. Joseph T. Barr (OD 1977, MS 1979) and Dr. Mary Jo Stiegemeier (BS 1981, OD 1983); used to support the research of one graduate student in the College of Optometry who demonstrates a specific interest in enhancing his or her cornea and contact lens education and knowledge.	\$53,025.00	\$53,025.00
The Greg and Becky Reinhart Endowed Scholarship Fund Established April 6, 2018, with gifts from Greg (BS 1983, MS 1985, PhD 1990) and Becky Reinhart; used to provide scholarships to students enrolled in the College of Food, Agricultural, and Environmental Sciences who are exploring non-traditional animal science careers, who demonstrate interests in human nutrition, companion animals, and animal well-being and One Health efforts that involve collaboration across multiple disciplines to attain optimal health for people, animals and the environment with preference given to graduate students.	\$51,011.38	\$51,011.38
Dr. Joel B. Cornacoff Memorial Scholarship Endowment Fund Established April 6, 2018, with a gift from Rebecca Cornacoff (BS 1974, MS 1978) in memory of Dr. Joel B. Cornacoff (BS 1974, MS 1976, PhD 1979, DVM 1985); used to provide a scholarship to one student who has a minimum 3.0 grade point average.	\$50,600.00	\$50,600.00
The Rocky River High School Endowed Scholarship Fund Established April 6, 2018, with gifts from an anonymous donor; used to provide a scholarship to one first-year undergraduate student who graduated from Rocky River High School in Rocky River, Ohio or its successor(s) who has a 3.5 grade point average, demonstrates financial need, and shows interest in majoring in business, engineering, or education with preference given to candidates who demonstrate leadership abilities.	\$50,580.99	\$50.580.99

The Hermann Family Women & Philanthropy Endowed Scholarship Fund Established April 6, 2018, with gifts from Susan E. Hermann (BA 1982); used to provide a scholarship to an undergraduate, graduate, or professional/doctoral student who demonstrates financial need.	\$50,501.56	\$250,000.00
The Major Thomas B. Basehart Army ROTC Endowed Scholarship Fund Established April 6, 2018, with gifts from Helene "Ingrid" Basehart (BS 1981), Hubert "Harry" Basehart (MA 1965, PhD 1972), and John Richard "Dick" Basehart (PhD 1974); used to provide scholarships to outstanding Army ROTC cadets ranked as juniors who demonstrate financial need with preference given to students active in Scabbard and Blade.	\$50,400.00	\$50,400.00
The John Parker and John Rankin Scholarship Fund Established April 6, 2018, with gifts from Dr. Robert (BS 1981, MS 1987) and Mrs. Beth (BS 1982) Buehler; used to provide a scholarship/scholarships to a student/students with particular attention to, but not limited to, students served by the Bell National Resource Center on the African American Male.	\$50,400.00	\$50,400.00
W. Dean Sweet Agricultural Economics Endowed Scholarship Fund Established April 6, 2018, with gifts from Sweet Manufacturing, Inc., given in support of The Pat and Bobby Moser Scholars Program; used to provide one scholarship to an undergraduate student enrolled in the College of Food, Agricultural, and Environmental Sciences pursuing a major in the Department of Agricultural, Environmental and Development Economics or the Agricultural Business Program.	\$50,075.00	\$50,075.00
Courtney and Reba Lilley Nursing Scholarship Fund Established April 6, 2018, with gifts from Steven R. and Kelly Lilley and Christopher A. (BS 1984) and Pam Lilley; used to provide scholarship support for senior nursing students with preference given to candidates from Urbana, Canton or Cleveland, Ohio.	\$50,000.20	\$50,000.20
The Burton Abrams Dissertation in Economics Endowed Grant Fund Established April 6, 2018, with a gift from Burton A. Abrams (MA 1972, PhD 1974); used to provide grants to PhD students in the College of Arts and Sciences, Department of Economics who are working on a dissertation related to one of the following topics in this order of preference: 1) money and banking, 2) international economics, 3) public choice/public finance, 4) any topic with strong public policy implications.	\$50,000.00	\$100,000.00
Eisman Family Medical Scholarship Endowment Fund Established April 6, 2018, with a gift from Dr. Jerome N. (MD 1967) and Karen E. (BS 1967) Eisman; used to provide scholarships to medical students who demonstrate financial need.	\$50,000.00	\$50,000.00
B.J. (Jim) and Elizabeth Gerko Charleton Scholarship Fund Established April 6, 2018, with gifts from Elizabeth C. Cole; used to provide a renewable scholarship to a student from Guernsey County, Ohio or Noble County, Ohio with preference given to students who graduated from Meadowbrook High School in Byesville, Ohio or Shenandoah High School in Sarahsville, Ohio.	\$50,000.00	\$50,000.00
Hagedorn Scotts Miracle-Gro Legacy Endowment Fund Established April 6, 2018, with a gift from The Hagedorn Legacy Foundation; used to provide scholarships to entrepreneurial minded students in any major who have a minimum 2.5 grade point average, demonstrate financial need, and have participated in and successfully completed the Legacy Scholars Program.	\$50,000.00	\$1,000,000.00

High Hopes Endowed Veterinary Scholarship Fund Established April 6, 2018, with gifts from Beth B. Jones; used to provide need-based scholarships for second, third, and fourth-year students pursuing their Doctor of Veterinary Medicine at the College of Veterinary Medicine.	\$50,000.00	\$3,000,000.00
Carl and Mary Leier Support Fund for Geriatric Medicine Established April 6, 2018, with gifts from Dr. Carl V. Leier and Jolene F. Leier; used to support the Geriatrics Fellowship Program at the Ohio State University Wexner Medical Center to attract and retain more candidates in geriatric medicine and to foster their long-term success in this important specialty directed at the medical care of our senior citizens.	\$50,000.00	\$50,000.00
The Nationwide and Davis Family Endowed Scholarship Fund Established April 6, 2018, with a gift from Nationwide Mutual Insurance Company, in honor of Kenneth D. Davis' (BS 1976, MS 1977) retirement from the Board; used to provide a scholarship(s) to an undergraduate student(s) enrolled in the College of Food, Agricultural, and Environmental Sciences who is (are) from Highland County, Ohio or graduated from a Highland County high school with preference given to incoming freshmen or transfer students who have been involved in 4-H or FFA for multiple years.	\$50,000.00	\$50,000.00
Bishun, Kamla, Jagaroshani, and Paras Pandey Endowed Scholarship Fund Established April 6, 2018, with gifts from Bishun and Kamla Pandey and Aditya and Sheela Pandey; used to provide scholarships to undergraduate students attending The Ohio State University at Marion with preference given to students majoring in science, engineering, or math and first consideration given to candidates with a minimum 3.2 grade point average.	\$50,000.00	\$50,000.00
David C. Rader International Scholarship Fund Established April 6, 2018, with gifts from David C. Rader (BS 1971, MBA 1972) and matching funds from The Joseph A. Alutto Graduate Global Leadership Initiative; used to provide scholarship(s) to undergraduate or graduate students enrolled in Max M. Fisher College of Business who are pursuing critical, action-based learning experiences around the world.	\$50,000.00	\$50,000.00
Michael and Andee Rupe Endowed Scholarship Fund Established April 6, 2018, with gifts from Michael C. Rupe (BA 1992) and Andee L. Rupe (BA 1992); used to provide renewable scholarships to undergraduate students enrolled in the College of Arts and Sciences who demonstrate financial need and graduated from a high school in the state of Ohio with preference given to new first-year students.	\$50,000.00	\$125,000.00
Solak-Blake Family Endowed Scholarship Fund Established April 6, 2018, with gifts from Kevin S. and Debra Ann (BS 1976) Blake; used to provide scholarships for students attending the Newark campus who are pursuing a major in pre-nursing, pre-allied medicine, or pre-medicine. Candidates must be graduates of Newark Catholic High School in Newark, Ohio or its successor.	\$50,000.00	\$50,000.00
The Connie L. Salts Dean's Discretionary Endowment Fund Established April 6, 2018, with a gifts from the estate of Dean E. Salts, in honor of his late wife Connie L. Salts; used at the discretion of the dean of the College of Food, Agricultural, and Environmental Sciences or his/her designee.	\$44,086.77	\$44,086.77

Change in Name and Description of Named Endowed Fund (Foundation)

#### April 6, 2018, Board of Trustees meeting

From: The Janet Garmhausen Bock Enrichment Fund for Ph.D. Students in Nursing

To: The Janet Garmhausen Bock Scholarship Fund for Students in Landscape Architecture

#### Change in Name of Named Endowed Fund (Foundation)

From: The John F. Isler Endowed Scholarship Fund To: The John F. and Dorothy L. Isler Endowed Scholarship Fund

From: The School of Earth Sciences Field Experience Travel Fund To: The School of Earth Sciences Field Camp Experience Travel Fund

### Change in Description of Named Endowed Fund (Foundation)

Colonel James D. Allshouse Endowed Scholarship Fund

The Karl Danneberger Turfgrass Science Fund

The George R. and Genevieve B. Gist Endowed Chair in Ohio State University Extension

Matt and Stephanie Magee Family Fund

TOTAL \$5,613,657.75

#### The Dr. H. Lee "Buck" Mathews Designated Professorship in Marketing

The Board of Trustees of The Ohio State University shall establish The Dr. H. Lee "Buck" Mathews (MBA 1963, PhD 1966) Designated Professorship in Marketing effective April 6, 2018, with a gift from Steven Trulaske (MA 1980, MBA 1982)

This fund supports a distinguished teacher, researcher, and scholar in the Department of Marketing & Logistics. Appointment to the position shall be recommended to the Provost by the dean of the Max M. Fisher College of Business, in consultation with the chair of the Department of Marketing & Logistics or his/her designee and approved by the University's Board of Trustees.

This designated professorship position shall cease to exist four years from the date it is established unless another funding source is identified.

#### The Dairy Science Fund in Lactational Physiology and Mammary Health

The Dairy Science Chair in Lactational Physiology and Mammary Health was established April 8, 1988, by the Board of Trustees of The Ohio State University, with gifts from industry, alumni, faculty and friends of the Department of Dairy Science. The name and description were revised September 7, 1990. Effective April 6, 2018, the fund name and description shall be revised.

The annual distribution shall be used to provide support for salary, research and/or program support for the work of a faculty member in the field of lactational physiology and mammary health. In the absence of such a faculty member, distribution shall be used to support research directed to the improvement of dairy management and dairy cow production. Expenditures shall be recommended by the chair of the Department of Animal Science and approved by the dean of the College of Food, Agricultural, and Environmental Sciences or his/her designee.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Food, Agricultural, and Environmental Sciences or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that this fund should benefit the University in perpetuity. The University reserves the right to modify the purposes of this fund, however, (1) in consultation with the donors, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University shall consult the dean of the College of Food, Agricultural, and Environmental Sciences or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees, in accordance with the policies of the University.

#### Jacques Zakin Award Fund

The Board of Trustees of The Ohio State University shall establish the Jacques Zakin Award Fund effective February 2, 2018, with a fund transfer by the College of Engineering from the Zakin Honorary Fund, a current use fund established with gifts from friends and family to recognize his impactful career.

The annual distribution from this fund shall be used to provide awards to graduate students enrolled in the College of Engineering, Department of Chemical and Biomolecular Engineering. Expenditures may include additional support for graduate assistants or fellowship appointments. Recipients will be selected by the college's scholarship committee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Engineering or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the College of Engineering that the endowment established herein should benefit the University in perpetuity. The University reserves the right to modify the purposes of this fund, however, if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University shall consult the dean of the College of Engineering or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees, in accordance with the policies of the University.

#### The Saul and Sonia Schottenstein Chair in Israel Studies

The Saul and Sonia Schottenstein Chair Fund in Israel Studies was established February 11, 2011 by the Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, with gifts from the estate of Saul Schottenstein via his trustee, Susan Schottenstein Diamond. The required funding level for a chair has been reached, the fund name is being revised, and the position is being established April 6, 2018.

The intent of this fund is to provide a chair position dedicated to Israel Studies in the College of Arts and Sciences.

The annual distribution from this fund shall be used to support an endowed chair position in Israel Studies. Per the request of the donor's representative, to qualify candidates must meet the following criteria:

- Demonstrate ability and commitment to teach and be a community, faculty, and student resource for Israel Studies.
- Be sufficiently fluent in Hebrew and be knowledgeable about contemporary Israeli society and culture.
   He/She must understand, acknowledge and respect the importance of promoting scholarship about the modern State of Israel as a member of the global community and a central part of the Jewish life and the homeland of the Jewish people.
- Possess expertise that may include, but is not limited to: History, Philosophy, Political Science, Music, English, Near Eastern Languages and Cultures, Germanic Languages and Literatures, Classics, Art, Economics, Comparative Studies, or the sciences.
- Must be able and willing to teach courses on the history of modern Zionism and Israel using texts and
  approaches generally accepted in the field including at least one lecture course relating to an aspect of
  modern Zionism and Israel must be offered annually through a joint course listing with the Melton
  Center for Jewish Studies. Must also be able and willing to provide scholarly mentoring to students in
  studying and learning about modern Israel.
- Demonstrate ability and commitment to discover, research and provide information to students who
  wish to have internships related to Israel and the area of Israel Studies, collaborating with programs
  such as an internship program stationed at the Israel-American Chamber of Commerce.
- Must agree to use the official name of the chair in all printed and electronic materials regarding the chair including letterheads, envelopes, business cards, brochures, websites, and other publications and promotional materials.
- Must agree to be affiliated with the Melton Center for Jewish Studies at the University as a resource and contributing member.

The University agrees to honor this request to the extent allowable by federal or state law or university policy. The University reserves the right to modify any selection criteria should the criteria be found, in whole or in part, to be contrary to federal or state law or university policy at any time in the future.

A member of the Susan and Jon Diamond family or a family designee, preferably a noted Israel Studies scholar, shall serve as a member of the search committee to help identify candidates. The search committee shall be appointed by the executive dean of the College of Arts and Sciences. The chair holder shall be appointed by the Board of Trustees of The Ohio State University as recommended by the search committee and approved by the executive dean of the College of Arts and Sciences. The term of the chair will be determined at the time of appointment and performance in the position will be reviewed annually. Reappointment to the chair is contingent on positive performance evaluations.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be reinvested in the endowment principal.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult Susan Schottenstein Diamond, should she be alive, and the executive dean and vice provost of the College of Arts and Sciences. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### Edwin H. and E. Christopher Ellison Professorship

The Edwin H. and E. Christopher Ellison Endowment Fund was established November 9, 2012, by the Board of Trustees of The Ohio State University in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation with gifts from colleagues, family, and friends and a fund transfer from OSU Surgery LLC to honor the accomplishments of the late Dr. Edwin H. Ellison and of his son, Dr. E. Christopher Ellison, as both physicians have made a significant impact on the field of general surgery at The Ohio State University. The required funding level for a professorship has been reached. Effective April 6, 2018, the position shall be established and the fund name and description shall be changed.

Dr. E. Christopher Ellison has been a member of the Department of Surgery since 1984, when he joined the faculty as assistant professor, having returned to his home town of Columbus, Ohio, to complete his general surgery residency training at The Ohio State University. During his nearly three decades at Ohio State, Dr. Ellison has shared his knowledge, experience, and insight with colleagues and students, and has published over 100 peer-reviewed articles and co-authored 2 books, the 9th Edition of Zollinger's Atlas of Surgical Operations and The Coming Shortage of Surgeons. His leadership has benefited many areas of the medical center, including past directorships of the Division of General Surgery and the general surgery residency program; chairperson of the Department of Surgery since 2000; vice dean for Clinical Affairs and the chief executive officer of the Faculty Group Practice (having led the two-year integration effort to develop it from the past affiliated physician group). He has been honored as a College of Medicine Distinguished Professor and as the holder of the Robert M. Zollinger Chair in Surgery.

Dr. Edwin "Eddie" H. Ellison (1918-1970) also served as an inspiration to his colleagues, residents, and medical students as a surgical scientist and educator. He studied biochemistry, completing his undergraduate, graduate, and medical degree education at Ohio State. After serving in the Army Medical Corps, he returned to Ohio State in 1949, where he co-identified the Zollinger-Ellison Syndrome in 1955; was promoted to professor in the Department of Surgery in 1957; and named "Man of the Year" by medical students for his superb teaching. Dr. Ellison authored more than 130 scientific publications and later became the chairperson of the division of Surgery at Marquette University.

The annual distribution from this fund shall support a professorship in support of a nationally or internationally recognized physician faculty member in clinical or academic leadership in the field of Surgery. The appointment to the professorship, known as the Edwin H. and E. Christopher Ellison Professorship, shall be made by the Board of Trustees of The Ohio State University as recommended by the senior vice president for Health Sciences and by the dean of the College of Medicine in consultation with the chairperson of the Department of Surgery. The activities of the

professorship holder shall be reviewed no less than every four years by the dean to determine compliance with the intent of the donor, as well as the academic and research standards of the University.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be reinvested in the endowment principal.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. Should unforeseen circumstances arise in the future so that the need for this endowment ceases to exist, then another use as nearly aligned with the original intent of the contribution as good conscience and need dictate shall be designated by the Foundation's Board of Directors and the University's Board of Trustees. In making this alternate designation, the Boards shall seek advice from a representative of the donors and as recommended by the chairperson of the Department of Surgery, in consultation with the dean of the College of Medicine and the senior vice president for Health Sciences.

#### College of Medicine Dean's Discretionary/Priority Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the College of Medicine Dean's Discretionary/Priority Fund effective April 6, 2018, with an estate gift from Max Gerke (MD 1951).

The annual distribution from this fund shall be used at the discretion of the dean of the College of Medicine.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Medicine.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Medicine. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Dr. H. Lee "Buck" Mathews Professorship Fund in Marketing

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Dr. H. Lee "Buck" Mathews (MBA 1963, PhD 1966) Professorship Fund in Marketing effective April 6, 2018, with a gift from Steven Trulaske (MA 1980, MBA 1982).

Until March 30, 2021, the annual distribution from this fund shall be held in the distribution account or reinvested in the endowment principal at the discretion of the dean of the Max M. Fisher College of Business. Should the gifted endowment principal balance reach \$1,000,000 on or before March 30, 2021, the endowment shall be revised to The Dr. H. Lee "Buck" Mathews Professorship in Marketing. Thereafter, the annual distribution from this fund shall be used to support a distinguished teacher, researcher, and scholar in the Department of Marketing & Logistics. Appointment to the position shall be recommended to the Provost by the college's dean, in consultation with the department's chair or his/her designee and approved by the University's Board of Trustees.

Should the principal balance not reach \$1,000,000 by March 30, 2021, the endowment shall be revised to The Dr. H. Lee "Buck" Mathews Fund in Marketing and the annual distribution shall be used by the chair of the Department of Marketing & Logistics, in consultation with the dean of the Max M. Fisher College of Business.

After March 30, 2021, the fund may be revised when the gifted endowment principal reaches the minimum funding level required at that date for a professorship position.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the Max M. Fisher College of Business or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the Max M. Fisher College of Business or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Phyllis Burton Donovan Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Phyllis Burton Donovan Scholarship Fund effective April 6, 2018, with gifts from Timothy R. Donovan (BS 1978) and Elaine K. Donovan.

The annual distribution from this fund shall be used to provide renewable scholarship(s) to a student(s) who demonstrate financial need. Preference shall be given to candidates who graduated from South High School in Columbus, Ohio (or successor in interest). Selection of the recipient(s) and award amount shall be at the discretion of Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of Student Financial Aid.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult Student Financial Aid. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### Phyllis Cummins and Donald Dyche Real Estate Endowed Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Phyllis Cummins and Donald Dyche Real Estate Endowed Fund effective April 6, 2018, with gifts from Phyllis Cummins (BS 1973) and Donald Dyche.

A portion of the annual distribution from this fund shall be used to support a speaker series to bring real estate professionals and other industry leaders to Columbus to participate in targeted lectures and discussions specific to the real estate industry. Expenditures shall be approved by the dean of the Max M. Fisher College of Business or his/her designee.

The remaining portion of the annual distribution shall be used to provide support for students doing research in real estate with preference given to PhD students doing dissertation research. Recipients will be selected by the dean of the Max M. Fisher College of Business or his/her designee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the Max M. Fisher College of Business or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the Max M. Fisher College of Business or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Lewis Family Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Lewis Family Scholarship Fund effective April 6, 2018, with gifts from Brian W. (BA 1976) and Sherri Lyn Lewis.

The annual distribution from this fund shall be used to provide merit-based, tuition-only scholarships to undergraduate students enrolled in the College of Arts and Sciences who are studying in the Department of Geography and have a minimum 3.0 grade point average. First preference shall be given to candidates who are majoring in geographic information science and interested in cartography. Second preference shall be given to candidates who are majoring in geographic information science. Recipients will be selected by the chair of the department or his/her designee, in consultation with Student Financial Aid. Scholarships are renewable as long as recipients meet the selection criteria and are in good standing with the University.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the executive dean of the College of Arts and Sciences or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the executive dean of the College of Arts and Sciences or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### Lilja Hill Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Lilja Hill Endowed Scholarship Fund April 6, 2018, with gifts from James R. (BME 1969) and Judith L. (BSN 1969) Hill.

The annual distribution from this fund shall be used to provide renewable scholarships to undergraduate students from the state of Ohio who are ranked as juniors or seniors and have a minimum 2.5 grade point average. Candidates must be involved in a student organization(s), volunteer in the community, and demonstrate leadership abilities. Fifty percent of the annual distribution shall be awarded to candidates who are enrolled in the College of Nursing. Recipients shall be selected by Nursing's scholarship committee. The remaining distribution shall be awarded to candidates who are enrolled in the College of Engineering with a major in the Department of Mechanical and Aerospace Engineering. Recipients shall be selected by the department's scholarship committee. All scholarships are awarded in consultation with Student Financial Aid.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the deans of the College of Nursing and the College of Engineering or their designees.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the deans of the College of Nursing and the College of Engineering or their designees. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### Greater Jacksonville Undergraduate Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Greater Jacksonville Undergraduate Scholarship Fund effective April 6, 2018, with gifts from the Ohio State Alumni Club of Greater Jacksonville.

The annual distribution from this fund shall be used to provide scholarships to undergraduate students with first preference given to students from the greater Jacksonville area. Candidates may/will be interviewed, ranked and recommended to Student Financial Aid by the Ohio State Alumni Club of Greater Jacksonville. Scholarship recipients shall be selected by the director of Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the director of Student Financial Aid or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the director of Student Financial Aid or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

# David and Martha Rader Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the David and Martha Rader Endowed Scholarship

Fund effective April 6, 2018, with a gift from Mr. David (BA 1968) and Dr. Martha (BS 1968, MS 1982, PhD 1986, MPH 2008) Rader.

The annual distribution from this fund shall be used to provide scholarships to undergraduate students from Southern Ohio or West Virginia who demonstrate financial need. Candidates must be pursuing a degree in the STEM (science, technology, engineering, and math) pathway. Scholarships are renewable if the recipients remain in good standing with the University and are working towards a degree. Recipients shall be selected by Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the director of Student Financial Aid or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the director of Student Financial Aid or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Richard L. and C. Joyce Brown Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Richard L. and C. Joyce Brown Endowed Scholarship Fund effective April 6, 2018, with gifts from Richard L. Brown and C. Joyce Brown.

The annual distribution from this fund shall be used to provide scholarships to incoming first-year students enrolled at The Ohio State University at Marion (the Marion Campus) who are majoring in Education. Recipients must have attended Marion Harding High School for at least their junior and senior years of high school education and were in the top one-third of their graduating class. Scholarships are renewable and can be transferred to other Ohio State campuses as long as the students remain in good standing academically and are making continuous progress toward a degree in education. Recipients will be selected by the dean/director of the Marion Campus or his/her designee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean/director of The Ohio State University at Marion or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean/director of The Ohio State University at Marion or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### Phillip and Suzanne Faulkner International Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Phillip and Suzanne Faulkner International Scholarship Fund effective April 6, 2018, with a gift from Phillip Faulkner (BS 1958) as part of the Joseph A. Alutto Global Leadership Initiative.

The annual distribution from this fund shall provide scholarships to undergraduate or graduate students enrolled in the Max M. Fisher College of Business who are pursuing critical, action-based learning experiences around the world. Recipients shall be selected by the college's Office of Global Business, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the Max M. Fisher College of Business or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the Max M. Fisher College of Business or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Terry Rue Schultz Scholarship Fund for Clinical Excellence

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Terry Rue Schultz (BS 1972, OD 1974) Scholarship Fund for Clinical Excellence effective April 6, 2018, with gifts from family, friends, and colleagues.

The annual distribution from this fund shall be used to provide one scholarship to a fourth year student enrolled in the College of Optometry who demonstrates leadership abilities and excels with patient care. Recipients will be selected by the college's scholarship committee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Optometry or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Optometry or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### Paul and Sandra Watkins Endowed Fund for University Archives

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Paul and Sandra Watkins Endowed Fund for University Archives effective April 6, 2018, with gifts from Paul E. (BS 1958) and Sandra J. Watkins and friends.

The annual distribution from this fund shall be used for the operations of the University Archives at the discretion of the directors of the Archives and the University Libraries.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the directors of the Archives and the University Libraries or their designees.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the directors of the Archives and the University Libraries or their designees. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### Class of 1985 Veterinary Student Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Class of 1985 Veterinary Student Endowed Scholarship Fund effective April 6, 2018, with gifts from the College of Veterinary Medicine Class of 1985.

The annual distribution from this fund shall be used to provide scholarships to students enrolled in the College of Veterinary Medicine. Recipients will be selected by the college's scholarship committee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Veterinary Medicine or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Veterinary Medicine or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

# The Gillian Groves and Gerald Petersen Endowed Scholarship Fund for Women in Engineering

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Gillian Groves and Gerald Petersen Endowed

Scholarship Fund for Women in Engineering effective April 6, 2018, with gifts from Gillian Groves (BS 1979, BS 1982) and Gerald Petersen.

The annual distribution from this fund shall be used to provide one or more scholarships to undergraduate and/or graduate students enrolled in the College of Engineering who are participants in the Women in Engineering program and have a minimum 3.0 grade point average. Preference shall be given to candidates who are ranked second year or higher. Recipients will be selected by the director of the college's Office of Diversity and Inclusion or his/her designee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Engineering or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Engineering or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Dr. Joe Barr and Dr. Mary Jo Stiegemeier Endowed Fund for the Advancement of Cornea and Contact Lens Education in the College of Optometry

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Dr. Joe Barr and Dr. Mary Jo Stiegemeier Endowed Fund for the Advancement of Cornea and Contact Lens Education in the College of Optometry effective April 6, 2018, with gifts from Dr. Joseph T. Barr (OD 1977, MS 1979) and Dr. Mary Jo Stiegemeier (BS 1981, OD 1983).

The annual distribution from this fund shall be used to support the research of one graduate student in the College of Optometry who demonstrates a specific interest in enhancing his or her cornea and contact lens education and knowledge. Recipients shall be selected by the dean of the College of Optometry or his/her designee.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Optometry or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Optometry or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Greg and Becky Reinhart Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Greg and Becky Reinhart Endowed Scholarship Fund effective April 6, 2018, with gifts from Greg (BS 1983, MS 1985, PhD 1990) and Becky Reinhart.

The annual distribution from this fund shall be used to provide scholarships to students enrolled in the College of Food, Agricultural, and Environmental Sciences who are exploring non-traditional animal science careers, who demonstrate interests in human nutrition, companion animals, and animal well-being and One Health efforts that involve collaboration across multiple disciplines to attain optimal health for people, animals, and the environment. First preference shall be given to graduate students. Second preference shall be given to undergraduate students ranked as juniors or seniors. Annual distribution may also be used for, but is not limited to, research projects, conference travel, or program support. Scholarship recipients shall be selected by the college's scholarship committee, in consultation with Student Financial Aid

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Food, Agricultural, and Environmental Sciences or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Food, Agricultural, and Environmental Sciences or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### Dr. Joel B. Cornacoff Memorial Scholarship Endowment Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Dr. Joel B. Cornacoff Memorial Scholarship Endowment Fund effective April 6, 2018, with a gift from Rebecca Cornacoff (BS 1974, MS 1978) in memory of Dr. Joel B. Cornacoff (BS 1974, MS 1976, PhD 1979, DVM 1985).

The annual distribution from this fund shall be used to provide a scholarship to one student. The scholarship may be used for tuition, research competitions, and room & board. Candidates must have a minimum 3.0 grade point average. Recipients will be selected by Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the director of Student Financial Aid or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the

University and the Foundation shall consult the director of Student Financial Aid or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Rocky River High School Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Rocky River High School Endowed Scholarship Fund effective April 6, 2018, with gifts from an anonymous donor.

The annual distribution from this fund shall be used to provide a scholarship to one first-year undergraduate student who graduated from Rocky River High School in Rocky River, Ohio or its successor(s). Candidates must have a 3.5 grade point average, demonstrate financial need, and show interest in majoring in business, engineering, or education. Preference shall be given to candidates who demonstrate leadership abilities. Recipients will be selected by Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal of The Rocky River High School Endowed Scholarship Fund at the discretion of Student Financial Aid.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult Student Financial Aid. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

## The Hermann Family Women & Philanthropy Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Hermann Family Women & Philanthropy Endowed Scholarship Fund effective April 6, 2018, with gifts from Susan E. Hermann (BA 1982).

The annual distribution from this fund shall be used to provide a scholarship to an undergraduate, graduate, or professional/doctoral student who demonstrates financial need. The scholarship will be renewable for eight semesters as long as the recipient remains in good standing with The Ohio State University. Recipients will be recommended by the scholarship committee of the Women & Philanthropy organization and approved by the director of Women & Philanthropy, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the president and CEO of The Ohio State University Alumni Association, Inc., or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the president and CEO of The Ohio State University Alumni Association, Inc., or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Major Thomas B. Basehart Army ROTC Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Major Thomas B. Basehart Army ROTC Endowed Scholarship Fund effective April 6, 2018, with gifts from Helene "Ingrid" Basehart (BS 1981), Hubert "Harry" Basehart (MA 1965, PhD 1972), and John Richard "Dick" Basehart (PhD 1974).

The annual distribution from this fund shall be used to provide scholarships to outstanding Army ROTC cadets ranked as juniors who demonstrate financial need. Preference shall be given to students active in Scabbard and Blade. Recipients shall be selected by the professor of military science, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the chair of the Department of Military Science.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the chair of the Department of Military Science. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The John Parker and John Rankin Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The John Parker and John Rankin Scholarship Fund effective April 6, 2018, with gifts from Dr. Robert (BS 1981, MS 1987) and Mrs. Beth (BS 1982) Buehler.

The annual distribution from this fund shall be used to provide a scholarship/scholarships to a student/students. It is the donors' desire that the scholarships be awarded with particular attention to, but not limited to, students served by the Bell National Resource Center on the African American Male, but if no such students meet the scholarship criteria as determined by the Center, to students of the Young Scholars Program. If no such candidates are identified by the Program, the annual distribution may be used to provide scholarships to economically disadvantaged students served by the University. Recipients shall be chosen by the Office of Diversity and Inclusion Selection Committee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the director of the Office of Diversity and Inclusion or his/her designee. The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the director of the Office of Diversity and Inclusion or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### W. Dean Sweet Agricultural Economics Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the W. Dean Sweet Agricultural Economics Endowed Scholarship Fund effective April 6, 2018, with gifts from Sweet Manufacturing, Inc., given in support of The Pat and Bobby Moser Scholars Program.

The annual distribution from this fund shall be used to provide one scholarship to an undergraduate student enrolled in the College of Food, Agricultural, and Environmental Sciences pursuing a major in the Department of Agricultural, Environmental and Development Economics or the Agricultural Business Program. Eligible students may be enrolled at the Columbus or Wooster (Ohio State ATI) Campus, have a 2.5 or higher grade point average and demonstrate financial need. Recipients will be selected by the College's scholarship committee, in accordance to current guidelines established by the dean of the college or his/her designee, in consultation with Student Financial Aid. The scholarship shall be renewable as long as the recipient continues to meet the requirements.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

## Courtney and Reba Lilley Nursing Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Courtney and Reba Lilley Nursing Scholarship Fund effective April 6, 2018, with gifts from Steven R. and Kelly Lilley and Christopher A. (BS 1984) and Pam Lilley.

The annual distribution from this fund shall be used to provide scholarship support for senior nursing students with preference given to candidates from Urbana, Canton, or Cleveland, Ohio. Recipients will be selected by the College's scholarship committee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Nursing or his/her designee. The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Nursing or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Burton Abrams Dissertation in Economics Endowed Grant Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Burton Abrams Dissertation in Economics Endowed Grant Fund effective April 6, 2018, with a gift from Burton A. Abrams (MA 1972, PhD 1974).

The annual distribution from this fund shall be used to provide grants to PhD students in the College of Arts and Sciences, Department of Economics who are working on a dissertation related to one of the following topics in this order of preference: 1) money and banking, 2) international economics, 3) public choice/public finance, 4) any topic with strong public policy implications. Candidates will be selected by the chair of the department or his/her designee, in consultation with Student Financial Aid. Grants may be used for travel to conferences, hardware and software, and other expenses that facilitate the completion of a dissertation.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the executive dean of the College of Arts and Sciences or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the executive dean of the College of Arts and Sciences or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

## Eisman Family Medical Scholarship Endowment Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Eisman Family Medical Scholarship Endowment Fund effective April 6, 2018, with a gift from Dr. Jerome N. (MD 1967) and Karen E. (BS 1967) Eisman.

The annual distribution from this fund shall be used to provide scholarships to medical students who demonstrate financial need. Scholarships may be used for tuition and additional educational expenses (including books). Recipients will be selected by the College of Medicine's scholarship committee and approved by the college's dean or his/her designee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Medicine or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Medicine or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### B.J. (Jim) and Elizabeth Gerko Charleton Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the B.J. (Jim) and Elizabeth Gerko Charleton Scholarship Fund effective April 6, 2018, with gifts from Elizabeth C. Cole.

The annual distribution from this fund shall be used to provide a renewable scholarship to a student from Guernsey County, Ohio or Noble County, Ohio. Preference shall be given to students who graduated from Meadowbrook High School in Byesville, Ohio or Shenandoah High School in Sarahsville, Ohio. Recipients will be selected by Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of Student Financial Aid.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult Student Financial Aid. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

## Hagedorn Scotts Miracle-Gro Legacy Endowment Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Hagedorn Scotts Miracle-Gro Legacy Endowment Fund effective April 6, 2018, with a gift from The Hagedorn Legacy Foundation.

For the first four years, fifty percent (50%) of the endowed fund's annual distribution shall be held in the distribution account to be used in subsequent years and only for the purposes of the endowment. Thereafter, the annual distribution shall be used to provide scholarships to entrepreneurial minded students in any major who have a minimum 2.5 grade point average and demonstrate financial need. Scholarships shall be awarded to students who have participated in, and successfully completed, the Legacy Scholars Program. If there are no candidates who have completed the Legacy Scholars Program, scholarships shall be awarded to candidates who are participating in student programs related to the Center for Innovation and Entrepreneurship. Recipients will be selected by the Undergraduate Scholarship Committee of the Max M. Fisher College of Business, in consultation with Student Financial Aid. Scholarships are renewable for a period of four years.

Understanding that the needs of students change over time, the awarding criteria may be adjusted if mutually agreed upon by The Hagedorn Legacy Foundation, the Foundation, and the University.

The University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the Max M. Fisher College of Business or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### High Hopes Endowed Veterinary Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the High Hopes Endowed Veterinary Scholarship Fund effective April 6, 2018. with gifts from Beth B. Jones.

The annual distribution from this fund shall be used to provide need-based scholarships for second, third, and fourthyear students pursuing their Doctor of Veterinary Medicine at the College of Veterinary Medicine. Recipients will be selected by the dean of the college or his/her designee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Veterinary Medicine or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Veterinary Medicine or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

## Carl and Mary Leier Support Fund for Geriatric Medicine

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Carl and Mary Leier Support Fund for Geriatric Medicine effective April 6, 2018, with gifts from Dr. Carl V. Leier and Jolene F. Leier.

The annual distribution from this fund shall be used to support the Geriatrics Fellowship Program at the Ohio State University Wexner Medical Center. It is the intent of this support fund to attract and retain more candidates in geriatric

medicine and to foster their long-term success in this important specialty, directed at the medical care of our senior citizens. The ultimate aim is to assist the Department of Internal Medicine, Division of General Internal Medicine and Geriatrics to become a world-renowned center of training and research in geriatric care. Expenditures shall be allocated by the section chief of Geriatrics or his/her designee and approved by the dean of the College of Medicine or his/her designee.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the section chief of Geriatrics or his/her designee and the dean of the College of Medicine or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Medicine or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Nationwide and Davis Family Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish The Nationwide and Davis Family Endowed Scholarship Fund effective April 6, 2018, with a gift from Nationwide Mutual Insurance Company, in honor of Kenneth D. Davis' (BS 1976, MS 1977) retirement from the Board.

The annual distribution from this fund shall be designated to the College of Food, Agricultural, and Environmental Sciences. Funds shall be used to provide a scholarship(s) to an undergraduate student(s) enrolled in the college who is (are) from Highland County, Ohio or graduated from a Highland County high school. First preference shall be given to incoming freshmen or transfer students who have been involved in 4-H or FFA for multiple years. Second preference shall be given to returning students who have been involved in 4-H or FFA for multiple years and continue to lead and serve in the University or local community. The scholarship(s) may be renewed if no eligible incoming students are identified. The scholarship(s) may be used for tuition, room & board, and additional educational expenses (including books). Recipients shall be selected by the college's scholarship committee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Food, Agricultural, and Environmental Sciences or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Food, Agricultural, and Environmental Sciences or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

Bishun, Kamla, Jagaroshani, and Paras Pandey Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Bishun, Kamla, Jagaroshani, and Paras Pandey Endowed Scholarship Fund effective April 6, 2018, with gifts from Bishun and Kamla Pandey and Aditya and Sheela Pandey.

The annual distribution from this fund shall be used to provide scholarships to undergraduate students attending The Ohio State University at Marion with preference given to students majoring in science, engineering, or math. First consideration shall be given to candidates with a minimum 3.2 grade point average (GPA), second consideration shall be given to candidates with a minimum 3.0 GPA. Scholarships may be used for tuition, room and board, and study abroad travel expenses and fees.

Recipients will be selected by The Ohio State University at Marion's scholarship committee, in consultation with a sciences or engineering faculty member and Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean/director of The Ohio State University at Marion or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean/director of The Ohio State University at Marion or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### David C. Rader International Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the David C. Rader International Scholarship Fund effective April 6, 2018, with gifts from David C. Rader (BS 1971, MBA 1972) and matching funds from The Joseph A. Alutto Graduate Global Leadership Initiative.

The annual distribution from this fund shall be used to provide scholarship(s) to undergraduate or graduate students enrolled in Max M. Fisher College of Business who are pursuing critical, action-based learning experiences around the world. Recipients shall be selected by the college's Office of Global Business, in consultation with Student Financial

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the Max M. Fisher College of Business.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful,

provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the Max M. Fisher College of Business. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### Michael and Andee Rupe Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Michael and Andee Rupe Endowed Scholarship Fund effective April 6, 2018, with gifts from Michael C. Rupe (BA 1992) and Andee L. Rupe (BA 1992).

The annual distribution from this fund shall be used to provide renewable scholarships to undergraduate students enrolled in the College of Arts and Sciences who demonstrate financial need and graduated from a high school in the state of Ohio. Preference will be given to new first-year students. Scholarship recipients will be selected by the executive dean of the college or his/her designee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the executive dean of the College of Arts and Sciences or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the executive dean of the College of Arts and Sciences or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

## Solak-Blake Family Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, shall establish the Solak-Blake Family Endowed Scholarship Fund effective April 6, 2018, with gifts from Kevin S. and Debra Ann (BS 1976) Blake.

The annual distribution from this fund shall be used to provide scholarships for students attending the Newark campus who are pursuing a major in pre-nursing, pre-allied medicine, or pre-medicine. Candidates must be graduates of Newark Catholic High School in Newark, Ohio or its successor. Recipients will be selected by the Ohio State Newark Office of Financial Aid, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean/director of The Ohio State University at Newark or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean/director of The Ohio State University at Newark or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Janet Garmhausen Bock Scholarship Fund for Students in Landscape Architecture

The Janet Garmhausen Bock Enrichment Fund for Ph.D. Students in Nursing was established September 23, 2005, by the Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, with gifts from Dr. J. John (BS 1952; MD 1957) and Mrs. Janet G. Bock (BSNurs. cum laude, 1956) in honor of Janet Bock's 50th anniversary of graduation from The Ohio State University College of Nursing. September 2, 2016, the fund was closed and the gifts were transferred to the Wilbur J. Garmhausen Scholarship Fund. Effective \_\_/\_\_\_\_, the fund shall be re-opened, the gifts shall be transferred back, the fund name and fund description shall be revised.

The annual distribution from this fund shall be used to award one scholarship at the end of the student's second year to an undergraduate or graduate student majoring in Landscape Architecture. The award is to be given to the student who best represents excellence in landscape architecture and can be renewable based on continued outstanding performance by the recipient. The recipient shall be selected by the college's scholarship committee, in consultation with Student Financial Aid.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Engineering or his/her designee.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the dean of the College of Engineering or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

## The John F. and Dorothy L. Isler Endowed Scholarship Fund

The John F. Isler Endowed Scholarship Fund was established November 1, 1996, by the Board of Trustees through funds received by the University from The Ohio State University Foundation, which has established an endowed fund with gifts from the members of the John F. Isler family as well as associates and friends of the family. John F. Isler served as Marion County Commissioner for thirteen years and was instrumental in the founding of The Ohio State University at Marion. Mr. Isler dedicated his life to promoting youth and educational activities at local and state levels. Effective April 6, 2018, the fund name shall be revised.

Twenty percent (20%) of the annual income distributed shall be added to the fund's principal. The remaining eighty percent (80%) of the annual income shall be used to fund one or more scholarships for students attending The Ohio State University and enrolled in the College of Food, Agricultural, and Environmental Sciences. Selection of scholarships shall be based on activities, leadership, academic achievement and/or financial need. Applicants must have exhibited a project in the Junior Fair or equivalent at the Marion County Fair for so long as these events exist. Priority will be given to students attending Ohio State Marion but applicants attending any other Ohio State University campus including ATI will also be considered. Recipients of the award(s) are to be chosen by the Marion Campus Scholarship Committee appointed by the dean and director, Ohio State Marion. A family member or representative will also be involved in the recipient selection process for each year as long as the family so desires. The successor to the

above committee will be the dean of The Ohio State University at Marion and the dean of the College of Food, Agricultural, and Environmental Sciences. If no student meets the requirements in any given year, unused funds will carry over to the next year's awarding.

#### The School of Earth Sciences Field Camp Experience Travel Fund

The School of Earth Sciences Field Experience Travel Fund was established September 18, 2009, by the Board of Trustees of The Ohio State University in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, with a gift from Mike (BS 1969) and Cynthia Morgan. Effective April 6, 2018, the fund name shall be revised.

The annual distribution from this fund shall be used to support field camp for students in the School of Earth Sciences as determined by the School's director.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Mathematical and Physical Sciences in consultation with the director of the School of Earth Sciences.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. Should unforeseen circumstances arise in the future so that the need for this endowment ceases to exist, then another use as nearly aligned with the original intent of the contribution as good conscience and need dictate shall be designated by the Foundation's Board of Directors and the University's Board of Trustees. In making this alternate designation, the Boards shall seek advice from the donors, should they be alive, and from the dean of the College of Mathematical and Physical Sciences in consultation with the director of the School of Earth Sciences.

#### Colonel James D. Allshouse Endowed Scholarship Fund

The Board of Trustees of The Ohio State University, in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, established the Colonel James D. Allshouse Endowed Scholarship Fund effective February 2, 2018, with a memorial gift from Dr. Milisa K Rizer. Effective April 6, 2018, the fund description shall be revised.

The annual distribution from this fund shall be used to provide a scholarship(s) to an Air Force ROTC cadet(s) who is (are) ranked as a 3rd, 4th, or 5th year student(s), has (have) a minimum 2.5 grade point average and participate(s) in leadership roles, community service, and/or extracurricular activities. To qualify, candidates must not be receiving support from another donor-funded scholarship. In order to qualify and maintain eligibility for the scholarship recipient(s) must comply with the code of conduct as determined by the Air Force ROTC Detachment. Graduating seniors are not eligible to receive this scholarship. Recipient(s) shall be recommended by the Air Force ROTC Detachment scholarship selection committee and awarded by the Air Force ROTC Commander. Student Financial Aid shall be apprised of the selection process.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the Air Force ROTC Commander or his/her designee.

If Air Force ROTC ceases to exist at the University, the Foundation agrees the fund should be redirected to encourage and carry on civilian military education and training in the United States and its territories at the discretion of the director of the Office of Military and Veterans Services. If Air Force ROTC is re-established at the University, funding will revert back to the original intent as stated.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures, as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult the Air Force ROTC Commander or his/her designee. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

#### The Karl Danneberger Turfgrass Science Fund

The Karl Danneberger Turfgrass Science Fund was established April 4, 2008, by the Board of Trustees of The Ohio State University in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, with gifts from Dr. Karl Danneberger and friends. Effective April 6, 2018, the fund description shall be revised.

The annual distribution from this fund shall provide program support for the Turfgrass Science Program on the Columbus Campus. Support shall include, but not be limited to, equipment purchases and maintenance, student travel, educational activities, training opportunities and research supplies. Expenditures shall be recommended by the turfgrass faculty member with the most involvement in the program and approved by the chair of the Department of Horticulture and Crop Science.

If the Turfgrass Science Program should cease to exist on the Columbus Campus, it is the donors' desire for the annual distribution to be designated to the general university to support scholarships for undergraduate students enrolled in any science related major on the Columbus Campus. It is the donors' desire that the scholarships be awarded with particular attention to, but not limited to, minority students. Recipients will be selected by Student Financial Aid.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be held in the distribution account to be used in subsequent years and only for the purposes of the endowment, or reinvested in the endowment principal at the discretion of the dean of the College of Food, Agricultural, and Environmental Sciences.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donor/donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor/donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall consult Dr. Danneberger, should he be alive, and the dean of the College of Food, Agricultural, and Environmental Sciences. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

## The George R. and Genevieve B. Gist Endowed Chair in Ohio State University Extension

The George R. and Genevieve B. Gist Endowed Chair in Ohio State University Extension was established June 4, 2004, by the Board of Trustees of The Ohio State University in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, through the estates of George R. Gist, director emeritus of the Ohio State University Extension, and his wife, Genevieve B. Gist. The description of the chair was revised on September 22, 2004. Effective April 6, 2018, the fund description shall be revised.

The annual distribution from this fund shall be used to support a distinguished Extension professor in the Departments of Horticulture and Crop Science and Agricultural Communication, Education, and Leadership, with the appointment rotating between the two departments at least every 10 years. The Extension chair in the Department of Horticulture and Crop Science shall be in that area of crop science which was formerly in the Department of Agronomy. The chair in the Department of Agricultural Communication, Education, and Leadership shall be in Extension education with a focus on administration and leadership.

Selection of the distinguished professor shall be made by the dean of the College of Food, Agricultural, and Environmental Sciences and the director of Ohio State University Extension or their designees; the Extension

administrative cabinet in consultation with the department chairs in the respective departments; and the executive vice president and provost. The work and progress of the chair holder will be reviewed every five years.

When the chair holder leaves the position for any reason, the endowed chair will move to the other department designated in the Gist's will for the next period. The decision shall be approved by the dean of the College of Food, Agricultural, and Environmental Sciences.

Any unused annual distributions from the fund shall be returned to principal.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that this fund should benefit the University in perpetuity. If, in the future, the need for this fund should cease to exist or so diminish as to provide unused distributions, then another use shall be designated by the Board of Trustees and Foundation Board as recommended by the director of Ohio State University Extension and the dean of the College of Food, Agricultural, and Environmental Sciences. Any such alternate distributions shall be made in a manner as nearly aligned with the original intent of the donor as good conscience and need dictate.

## Matt and Stephanie Magee Family Fund

The Matt and Stephanie Magee Family Fund was established August 31, 2012, by the Board of Trustees of The Ohio State University in accordance with the guidelines approved by the Board of Directors of The Ohio State University Foundation, with gifts from Matthew and Stephanie Magee. Effective April 6, 2018, the fund description shall be revised.

The annual distribution from this fund shall be split equally between the College of Engineering and the College of Education and Human Ecology. The intent of the fund is to provide scholarships to undergraduate, full-time, first-year, students who demonstrate financial need. Scholarships may be used for tuition and fees, room and board, books and supplies. Recipients will be selected by the appropriate college scholarship committee, in consultation with Student Financial Aid. Scholarships are renewable and transferrable so long as recipients maintain a 2.5 or higher grade point average.

The Ohio State University's mission and admissions policy supports educational diversity. The University may modify any criteria used to select scholarship recipients should the criteria be found, in whole or in part, to be contrary to federal or state law or University policy.

In any given year that the endowment distribution is not fully used for its intended purpose, the unused portion should be reinvested in the endowment principal.

The investment and management of and expenditures from all endowment funds shall be in accordance with University policies and procedures as approved by the Board of Trustees. As authorized by the Board of Trustees, a fee may be assessed against the endowment portfolio for the University's costs of development and fund management.

It is the desire of the donors that the endowment established herein should benefit the University in perpetuity. The University and the Foundation reserve the right to modify the purposes of this fund, however, (1) in consultation with the donor/donors named above, or (2) if such purposes become unlawful, impracticable, impossible to achieve, or wasteful, provided that such fund shall only be used for the University's charitable purposes. In seeking such modification, the University and the Foundation shall seek advice from the donors, if possible, and the University president, or his/her designee, and consult with the dean of the College of Engineering and the dean of the College of Education and Human Ecology. Modifications to endowed funds shall be approved by the University's Board of Trustees and the Foundation's Board of Directors, in accordance with the policies of the University and Foundation.

(APPENDIX LX)



# 2018 Distinguished Service Awards Recommended Recipients

# **Bobby Moser**

Upon retirement, Dr. Moser was commended for focusing on the greater good and strengthening Ohio State in enduring ways. While vice president of agricultural administration, overseeing the College of Food, Agricultural and Environmental Sciences, Ohio State University Extension, the Ohio Agricultural Research and Development Center, and the Agricultural Technical Institute, Dr. Moser served as an advocate and ambassador, creating and nurturing relationships throughout Ohio and beyond. A few select accomplishments during his 20 years as dean included: restructuring the college, significantly increasing grants, establishing the Food Innovation Center, and constructing the Nationwide and Ohio Farm Bureau 4-H Center — the first building on campus to earn LEED certification. Dr. Moser has received numerous international, national, state and university leadership awards, including induction into the Ohio Agricultural Hall of Fame. Dr. Moser chaired the W.K. Kellogg Foundation Board, and, in commemoration of his service, grants from the Kellogg Foundation to The Columbus Foundation were designated by the Mosers to establish the W.K. Kellogg Foundation and Bobby Moser Food Security and Sustainability Learning Community to support holistic study and community engagement in food security issues. A loyal donor of more than 25 years, Dr. Moser and his wife, Pat, also established an endowed scholarship for students studying abroad.

# **David Schuller**

Dr. Schuller was instrumental in the growth of The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute. He attended medical school at Ohio State and rose from resident to tenured professor to chair of the Department of Otolaryngology - Head and Neck Surgery. He helped create the Human Cancer Genetics Program, today considered one of the best in the country. Dr. Schuller served as the first director of The James and deputy director of the Comprehensive Cancer Center, and was appointed CEO emeritus of The James and director emeritus of the CCC in 2008. He was also named a Distinguished Professor in 2013. Dr. Schuller represented Ohio State locally, nationally and internationally, through leadership roles with organizations such as the National Cancer Institute, the Accreditation Council for Graduate Medical Education and the American Board of Otolaryngology. Articulating the original vision for what became the largest construction project undertaken in Ohio State history, Dr. Schuller integrated patient care with research and education in the third-largest cancer hospital in the country. He also helped Ohio State earn a \$100 million grant for the project. A loyal donor of 42 years, Dr. Schuller and his wife, Carole, are members of the Oval Society. Ohio State's top community of donors.



# Iris Wolstein

Mrs. Wolstein is a strong advocate for Ohio State, and is especially passionate about making Ohio State a leader in education and athletics. A transformational gift created the Bert L. and Iris S. Wolstein Entrepreneurial Leadership Initiative and the Wolstein Scholars Program at Fisher College of Business, which foster internship opportunities for Fisher students and support the faculty. In athletics, the Wolstein Leadership Academy is predicated on Mrs. Wolstein's belief that student-athletes be given the opportunities and resources necessary to become outstanding leaders, both on the field and in the classroom. She worked to create a program that would instill the importance of leadership skills and prepare student-athletes as influential, positive role models within their communities. A loyal donor for 21 years and member of the Oval Society, she also served on the Foundation Board of Directors for 12 years and continues to serve as a Lifetime Director. Iris and her late husband, Bert, also provided significant support for the men's soccer program and Ohio Stadium renovations.

(APPENDIX LXI)

# Project Data Sheet for Board of Trustees Approval

# **Airport Hangar**

OSU-180409 (CNI# 18000144)

Project Location: The Ohio State University Airport

#### · approval requested and amount

professional services \$0.2M

#### project budget

construction w/contingency \$9.6M professional services \$1.0M total project budget \$10.6M

#### project funding

- □ university debt
- □ development funds
- □ university funds
- $\hfill \square$  auxiliary funds
- □ state funds

## project schedule

BoT professional services approval 04/18 design/bidding 05/18 - 10/18 construction 10/18 - 06/19

## project delivery method

- □ general contracting
- □ design/build
- ☐ construction manager at risk

#### planning framework

- a planning study was completed in Fall 2017 to evaluate the next phase of development at Don Scott Field
- a Federal Aviation Administration Airport Master Plan will be completed in late 2018 and will include all recent and projected capital improvements
- o the criteria design amount is included in the FY 2018 Capital Investment Plan

## project scope

- the project will construct an additional corporate exclusive use hangar that will enhance the academic and research missions of the university
- the project will include site utilities, taxiways, aircraft ramp, approximately 30,000 square feet of hangar space, an attached office/workshop and associated parking

## · approval requested

approval is requested to enter into professional services contracts

#### project team

University project manager: AE/design architect: CM at Risk or Design Builder: Bill Holtz

Office of Administration and Planning



# Project Data Sheet for Board of Trustees Approval

# **WMC Regional Ambulatory Facilities**

OSU-180636 Project Location: TBD

	_	_		
•	approval	requested	and	amount

professional services \$4.0M

#### project budget

professional services \$4.0M construction w/contingency TBD total project budget TBD

## project funding

- □ university debt
- □ development funds
- □ university funds
- □ auxiliary funds (health system)
- □ state funds

#### project schedule

BoT professional services approval 4/18 design 4/18 construction TBD

## · project delivery method

- □ general contracting
- □ design/build
- □ construction manager at risk

#### · planning framework

- consistent with the strategic plans of the university and Wexner Medical Center to provide medical services within community-based ambulatory facilities
- o conceptual site plan completed March 2018
- the FY 2018 Capital Investment Plan will be amended to include the professional services amount

#### project scope

- design approximately 200,000 square foot ambulatory building that will include ambulatory surgery, endoscopy, primary care, specialty medical and surgical clinics, and related support
- site planning for a potential phase II is included in the scope
- the design is intended to provide a branded identity which could be deployed to additional future sites

## approval requested

- o approval is requested to amend the FY2018 Capital Investment Plan
- o approval is requested to enter into professional services contracts

project team

University project manager: Paul Lenz AE/design architect: TBD

Office of Administration and Planning

# Project Data Sheet for Board of Trustees Approval

# Campus Wi-Fi System

OSU-180625 (CNI# 17000082) Project Location: Columbus Campus

# approval requested and amount

professional serv/construction \$18.6M

project budget

construction w/ contingency \$9.5M professional services \$1.2M technology \$8.9M total project budget \$18.6M

## · project funding

- □ university debt
- $\hfill \Box$  development funds
- □ university funds
- □ auxiliary funds
- ☐ state funds

## project schedule

 BoT prof serv/construction approval
 04/18

 design/bidding
 05/18 – 10/18

 campus Wi-Fi
 6/18 – 12/20

 construction Stadium
 12/18 – 07/19

 construction Schott
 4/19 – 10/19

## · project delivery method

- □ general contracting
- ☐ design/build
- □ construction manager at risk

#### planning framework

 \$9.5M is included in the FY2018 Capital Investment Plan which will be amended to reflect the total project cost of \$18.6M

#### project scope

- the project consists of installing indoor/outdoor wireless access points across the Columbus Campus to create a more seamless, efficient and modern end user experience
- install wireless access points in the Ohio Stadium and the Schottenstein Center to improve the fan experience
- the system will provide a framework for future technological expansion and help take some burden off of the DAS (cellular repeater) system potentially improving communications for emergency responders, event staff, and customers
- State term contract may be utilized for portions of the project that are solely equipment installation

#### approval requested

- approval is requested to amend the FY2018 Capital Investment Plan
- o approval is requested to enter into professional services and construction contracts

project team

University project manager: Todd Henderly AE/design architect: TBD CM at Risk: TBD

Office of Administration and Planning

# Project Data Sheet for Board of Trustees Approval

# **Postle Partial Replacement**

OSU-160807 (CNI# 15000123)

Project Location: Postle Hall

#### approval requested and amount

construction (bldg addition/renovation) \$79.7M

project budget

construction w/cont \$85.4M professional services \$9.6M

total project budget \$95.0M

#### project funding

- ☐ university debt
- □ university funds
- □ auxiliary funds
- state funds

#### project schedule

BoT prof svc approval (SD only)

BoT prof svc approval (design)

Gof/17

design/bidding

BoT const approval (swing space/enablers)

O6/17

BoT const approval

Construction

10/17 – 05/20

# project delivery method

- general contracting
- □ design/build
- □ construction manager at risk

## planning framework

- this project is included in the FY2017 Capital Investment Plan for professional services only in the amount of \$9.5M
- o the cost of construction for the enabling work is included in the FY 2018 Capital Investment Plan
- the FY2018 Capital Investment Plan will be amended to include the remaining construction amount

## project scope

- this project will renovate existing classrooms and replace a portion of Postle Hall to support the teaching and outreach missions of the College of Dentistry
- project work includes swing space, enabling construction work to existing mechanical, electrical and plumbing systems, 130,000 GSF building addition, and partial existing building renovation to upgrade outdated tiered, lecture style classrooms and student spaces
- the building addition will include four levels of upgraded and expanded clinical spaces for faculty and students, one level of simulation style teaching classrooms and informal student study spaces, improved patient services, access and circulation

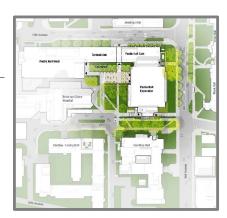
## approval requested

- o approval is requested to amend the FY 2018 Capital Investment Plan
- o approval is requested to enter construction contracts for the building addition and partial building renovation

#### project team

University project manager: AE/design architect: Design Group CM at Risk Gilbane Building Co.

Office of Administration and Planning



(APPENDIX LXII)

# APPROVAL FOR PURCHASE OF UNIMPROVED REAL PROPERTY STATE ROUTE 161 AND HAMILTON ROAD COLUMBUS, FRANKLIN COUNTY, OHIO

#### Background

The Ohio State University's Wexner Medical Center (WMC) seeks to acquire vacant land for development of additional ambulatory care facilities in Franklin County, Ohio. Acquisition of this land is important in meeting the objectives of the WMC's ambulatory care strategy, which is in turn a key component of the WMC strategic plan and its mission to improve health in Ohio and across the world through innovation in research, education and patient care.

#### **Location and Description**

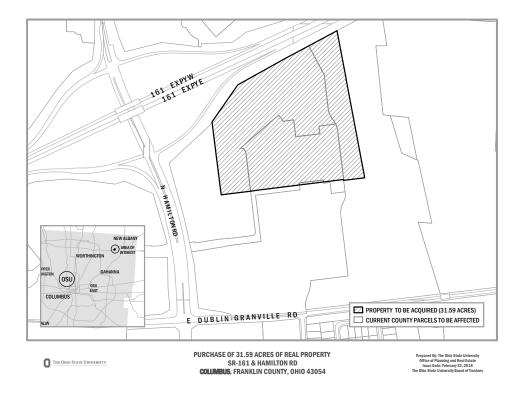
The property is located at the southeast corner of State Route 161 and Hamilton Road. The total land area being acquired is approximately 31.59 acres. The site is zoned CPD (Commercial Planned Development) and a rezoning application has been filed by The Ohio State University to obtain entitlements allowing construction of medical facilities. The purchase contract shall contain a contingency permitting the university to terminate the contract if it does not obtain the desired entitlements and shall also obligate the seller to perform certain site balancing work to elevate portions of the site out of the floodplain and additional infrastructure work.

# **Property History**

The +/- 31.59 acres is currently comprised of portions of four legal parcels, and title to the properties is vested in HC Office Sub 6 LLC, Stephen L. Harper, Trustee, and Target Corporation. Prior to WMC's acquisition of the property, title will be consolidated to HC Office Sub 6 LLC, which will be the seller.

#### **Purchase of Property**

WMC recommends that the +/- 31.59 acres of unimproved real property described above be acquired on terms and conditions that are in the best interest of the university. The source of funding for the acquisition and subsequent development of the property will be the Wexner Medical Center. The acquisition price is \$11,000,000, subject to appropriate adjustments and pro-rations at closing.



(APPENDIX LXIII)

# Degrees Conferred at THE OHIO STATE UNIVERSITY COMMENCEMENT CONVOCATION May 6, 2018

# COMMENCEMENT ADDRESS

# Susan Desmond-Hellmann

DOCTOR OF SCIENCE

Dr. Sue Desmond-Hellmann has worked for more than 30 years to eradicate disease, poverty and inequity across the world. As the chief executive officer of the Bill & Melinda Gates Foundation, she leads the organization's global efforts to ensure that every person has the opportunity to lead a healthy, productive life.

Trained as an oncologist,
Dr. Desmond-Hellmann began
her career working on HIV/AIDS
and cancer in San Francisco and
Uganda — experiences that proved
transformative. She later spent 14
years at the biotechnology firm
Genentech, quickly rising to become
chief medical officer and president of
product development, and pioneered

several breakthrough medicines, including the first gene-targeted therapies for cancer.

She has since adapted this targeted-treatment approach to advance the well-being of entire communities by championing precision public health: ensuring the right treatments reach the right populations in the right places to save lives.

Prior to joining the Gates
Foundation, Dr. Desmond-Hellmann
was chancellor of the University
of California, San Francisco — the
first woman to hold the position.
During her tenure, she oversaw
improvements in patient care,
research and education as well

as a \$1.5 billion expansion of the university's medical center.

Dr. Desmond-Hellmann has received numerous honors and awards. Forbes magazine named her one of the world's seven most "powerful innovators" in 2009 and listed her among the Top 50 Most Powerful Women in Business for seven years. In 2010, she was inducted into the American Academy of Arts and Sciences and elected to the Institute of Medicine.

Dr. Desmond-Hellmann earned her bachelor's and medical degrees at the University of Nevada, Reno, and a Master of Public Health at the University of California, Berkeley.

#### This program is not an official graduation list.

This printed program lists students who were eligible to graduate for Spring Semester 2018, as of 5:00 p.m., April 23, 2018, pending the outcome of final examinations and final grades. Therefore, it should not be used to determine a student's academic or degree status. The University's official registry for conferral of degrees is the student's permanent academic record, kept by the Office of the University Registrar, Student Academic Services Building, 281 West Lane Avenue, Columbus, OH 43210-1132.

#### The Graduate School

#### Dean: Alicia I. Bertone

#### Doctor of Musical Arts

Zachary Daniel Dierickx, Columbus B.Music (Concordia College) M Music

Music Dr. Caroline Hartig

Kenneth Bradley Holzworth, Wadsworth B.Music (Catholic University of America) M.Music (Kent State University) Music

Dr. Timothy Leasure

Chester James Jenkins, Blacklick B.A. (Cedarville University)

M.Music (Ohio University) Music

Dr. Katherine Jones

Sheri Lynn Rolf, Billings, MT Bachelor's, M.D. (University of Louisville) B.S. (Northern Kentucky University) M.Music (University of Montana)

Dr. Caroline Hartig

Music

#### **Doctor of Philosophy**

Mithila Venkatesh Agnihotri, Pune, India M.S. (University of Pune) Biophysics

Dr. Sherwin Singer

Mohammad Ashraful Alam

Chandpur, Bangladesh B.S., M.S. (Bangladesh Agri Univ) Environment and Natural Resources Dr. Konrad Dahrowski

Ray Sterling Alston, Columbus B.A. (Brigham Young University) M.A.

Slavic and East European Languages and Literatures Dr. Alexander Burry

Lauren Elizabeth Altenburger, Columbus B.S.Humn, Ecol., M.S.

Human Sciences

Dr. Sarah Schoppe-Sullivan

Jordan Christopher Angle, Columbus B.S., M.S. (Eastern Illinois University) Microbiology

Dr. Kelly Wrighton

Danielle Tina Anthony, Delaware Bachelor's (University of California) M.A. (New York University)

History Dr. Stephanie Smith

Jenna Marie Antonucci, Hilliard

B.S. (Suffolk University)

Microbiology

Dr. Li Wu

Karen Jane Argabright, Grandview Heights B.S.Agr., M.S.

Aaricultural and Extension Education Dr. Graham Cochran Dr. Jeffrey King

Elizabeth Kinkade Arthur, Westerville

B.A. (Ohio Wesleyan University) MS

Nursing Dr. Celia Wills

Thaddous James Asol Columbus B.S. (University of Dayton)

M.S. Physics

Dr. Leonard Brillson

Amruta Sham Ashtekar, Upper Arlington

B.S. (University of Pune) M.S. (Missouri State University)

Molecular, Cellular, and Developmental Biology

Dr. Lawrence Kirschnei

Sidra Saleem Ayoub, Pickerington Bachelor's (University of the Punjab) M.A.

Education Dr. Laurice Joseph

Erin Kathleen Bahl, Columbus

B.A. (Creighton University) M.A.

English Dr. Jonathan Ruehl

Dr Christa Teston

Sanyam Bajaj, New Delhi, India B.S.Elec.Cptr.Eng., M.S.

Electrical and Computer Engineering Dr. Siddharth Rajan

Rachel Anastasia Balabuszko, Langhome, PA

B.A. (University of Illinois) M.A. (San Francisco State University) Anthropology

Dr. Samuel Stout

Wenlei Bao, Shijiazhuang, China Bachelor's, M.S. (Harbin Institute of Technology)

M٩

Computer Science and Engineering Dr. P. Sadayappan

Samantha Marie Bates, Columbus

B.S., M.Soc.Work (Louisiana State University) Social Work

Dr. Dawn Anderson-Rutcher

Golnoosh Behrouzian, San Diego, CA B.A., M.A. (San Diego State University) Communication

Dr Frik Nishet

Mohini Bhattacharya, Mumbai, India B.S., M.S. (University of Mumbai) Microbiology

Dr. Daniel Wozniak

Joshua Thomas Billy, Newark, DE B.S. (West Virginia University)

Chemistry Dr Anne Co

Jacobson Robert Blomquist, Columbus B.A. (Boston College)

M.S.

Mathematics

Dr. John Harper

Derek J. Boczkowski, Columbus B.A. (Columbia College)

M.A. (DePaul University) Education Dr. George Newell

Joshua Trevitt Boerstler, Aiken, SC

B.S. (Clemson University) Materials Science and Engineering Dr. Gerald Frankel

Brittany Renee Brakenhoff, Westerville MS

Human Sciences

Dr. Natasha Slesnick

Kara Lynn Breda, Grove City B.A. (Michigan State University)

M.A. (Xavier University) Education

Dr. Jerome D'Agostino

Michael Robert Brooker, Grove City B.S., M.S.

Environmental Science Dr. Jonathan Witter

John Merrill Campbell, Columbus B.S. (University of North Florida)

M.S. **Physics** Dr. Michael Lisa

Gokhan Celik, Columbus B.S., M.S. (Middle East Technical University)

Chemical Engineering Dr. Umit Ozkan

Leslie Ann B. Chambers, Toledo B.A. (University of Toledo)

МΔ English

Dr. Nancy Johnson

Yi Boon Chang, Seoul, Korea M.A.Educ., B.A.Honors (Seoul National University)

Education Dr Alan Hirvela

Francisco Javier Chaparro, Columbus Bachelor's (University of Puerto Rico)

Materials Science and Engineering Dr. John Lannutti

Hongyu Chen, Columbus B.S. (Nanyang Technological University)

M.A. Franomics

Dr. David Blau

Yuanyuan Chen, Columbus B.S., M.S. (Nanjing University) Chemistry

Dr. Ross Dalbev

Venkata Siva Chaithanya Chillara, Hyderabad, India

B.Tech. (National Institutes of Technology, India)

Mechanical Engineering Dr. Marcelo Dapino

Jae-Hoon Chung, Hoffman Estates, IL B.A. (Northwestern University)

Integrated Biomedical Science Graduate Program

Dr. Paul Janssen

Daniel Robert Clifton, Columbus B.S. (Ithaca College)

M.Educ. (University of Virginia) Health and Rehabilitation Sciences Dr. James Onate

Michelle Fern Cohen, Columbus B.A. (Vanderbilt University)

M.A Enalish Dr. Jonathan Buehl Dr. Jared Gardner

Grace Lynn Cooper, Columbus

Ohio State Biochemistry Program Dr. Jeffrey Kuret

Merideth Ann Cooper, Hilliard B.S.Chem.Eng. (University of Dayton)

Chemical Engineering Dr. David Wood

Mair Wendelin Culbreth, Columbus B.A. (North Carolina State University) M.S. (San Francisco State University) Dance

Dr. Harmony Bench

Nicholas D. Cultrara, Columbus B.S. (State University of New York) Chemistry

Dr. Joshua Goldberger

Tao Dai, Columbus
Bachelor's (University of Science and
Technology Beijing)
M.S. (RWTH Aachen University)
M.S.

Welding Engineering Dr. John Lippold

**Danielle Marie DeBruler**, Columbus M.S.

Materials Science and Engineering Dr. Heather Powell

Thomas Allin Delomas, Reynoldsburg B.S. (University of Washington) M.S. (Kentucky State University) Environment and Natural Resources Dr. Konrad Dabrowski

**Brock Joseph DeLong**, Hilliard B.S.Elec.Cptr.Eng., M.S.

Electrical and Computer Engineering Dr. Asimina Kiourti Dr. John Volakis

Nicholas Lee Denton, Columbus B.S.Alld.Hlth.Prof.

Integrated Biomedical Science Graduate Program Dr. Timothy Cripe

Victoria Maria Dominguez, Astoria, NY B.A., M.A. (New York University)

Anatomy Dr. Amanda Agnew

Ranran Dong, Jingmen, China Bachelor's (Zhongnan University of Economics and Law)

M.S. Biostatistics Dr. Abigail Shoben

**Xinpeng Du**, Guiyang, China B.S. (Zhejiang University) M S

Materials Science and Engineering Dr. Ji-Cheng Zhao

Scott Alan Dueker, Galloway B.A. (Indiana University) M.A. (Ball State University) Education

**Joseph Edward Duggan, Jr.**, Grove City B.A. (Boston College)

M.A., M.S.

Economics

Dr. Lixin Ye

Dr. Helen Malone

Dr. Ramteen Sioshansi

Soumya Dutta, Kolkata, India Bachelor's (Maulana Abul Kalam Azad University of Technology) M S

Computer Science and Engineering
Dr. Han-Wei Shen

Krishnaja Duvvuri, Secunderabad, India B.Pharm. (Sri Padmavati Mahhila Visvavidyalayam) M.S. (Texas Tech University)

Chemistry Dr. Thaliyil Rajanbabu

**Alexander Signatur Dyhdalo**, Columbus B.S. (University of Illinois)

M.S. Physics

Dr. Richard Furnstahl

Zakari Eckert, Albuquerque, NM B.S. (Rose-Hulman Institute of Technology) M.S.

Mechanical Engineering Dr. Igor Adamovich

Ashley Nichole Edes, Bremen

B.S.Educ. (Ohio University)
M.Educ. (Wright State University)
Anthropology
Dr. Douglas Crews

Ferdous-e Elahi, Mymensingh, Bangladesh B.S., M.S. (Sher-e-Bangla Agricultural University) Plant Pathology

Bryan David Esser, Hilliard B.S.Mat.Sci.Eng., M.S.

Dr. Sally Miller

Materials Science and Engineering
Dr. David McComb

Ciaran Michael Fairman, Columbus B.S. (Kentucky Wesleyan College) M.S. (Georgia Southern University) Human Sciences Dr. Brian Focht

Ali Fallahiarezoodar, Tehran, Iran Bachelor's (University of Tabriz) Master's (University of Tech Malaysia) Industrial and Systems Engineering Dr. Taylan Altan

Jinsong Fan, Columbus B.Engr. (Anhui Jianzhu University) M.S. (Hefei University of Technology) Civil Engineering Dr. Halil Sezen

Kristin Sue Farley, Westerville B.S.Humn.Ecol., M.S.

Education Dr. Shayne Piasta

Jacob E. Farr, Paulding B.S.Food.Sci. Food Science and Technology Dr. Maria Giusti

Kavin Fatehchand, Columbus

B.S. (Emory University)
Integrated Biomedical Science
Graduate Program
Dr. Susheela Tridandapani

Jerry Daniel Fenn, Powell B.S. (Brigham Young University) Integrated Biomedical Science Graduate Program

Dr. Anthony Brown

Jack J. Fette, Lewis Center B.S.Educ. (Ashland University) M.A.

Education Dr Ann Allen

**Geoffrey Michael Foster**, Dublin B.S. (University of Akron)

M.S. Physics

Dr. Leonard Brillson

Paul Douglas Garman, Webster, NY B.A., B.S. (State University of New York) M S

Chemical Engineering Dr. I. Lee

**Cassidy Renee Gedling**, Floyds Knobs, IN B.A. (Indiana University)

M.S. Plant Pathology

Dr. Anne Dorrance

Crystal Lynn Gerrard, Columbus B.Music (University of Texas) M.Music (Southern Methodist University)

Dr. Daryl Kinney

Irfan Glogic,

Sarajevo, Bosnia and Herzegovina B.S. (University of Sarajevo) Mathematics Dr. Quidiu Costin

Kathleen McMichael Goodyear, Columbus B.A. (Metropolitan State College of Denver) M.S. (Clarion University of Pennsylvania) Arts Administration, Education and Policy Dr. Christine Morris

Jacob William Hunter Gordon, Muskegon, MI B.S. (Michigan State University) M S

M.S. Physics Dr. Amy Hill

Yanting Guo, Guangzhou, China B.S. (Zhejiang University) M.S. (University of Oxford) Environmental Science

Dr. Karen Mancl

**Steven Richard Hansen**, Columbus B.S. (Mount Vernon Nazarene University) M.S.

Materials Science and Engineering Dr. Glenn Daehn

Shilun Hao, Columbus
B.S.Civ.Eng. (Beijing University of Civil
Engineering and Architecture)
M.S.

Civil Engineering Dr. Fabian Tan Andrew Evan Hart, Columbus B.S. (Wichita State University)

Physics Dr. Christopher Hill

Nina Haviernikova, Columbus Magister (Comenius University)

Slavic and East European Languages and

Dr. Daniel Collins Dr. Brian Joseph

Zachary Andrew Hing, Seattle, WA B.S. (Duke University)

Integrated Biomedical Science
Graduate Program
Dr. John Byrd

Dr. Rosa Lapalombella

**Tien-Lin Hsieh**, Columbus B.S.Chem.Eng. (National Taiwan University) Chemical Engineering

Chemical Engineering Dr. Liang-Shih Fan

Courtney Kelly Hsing, Ann Arbor, MI B.A. (University of Michigan) M.A.

Psychology Dr. Lisa Kuhns

Meng Huang, Hefei, China B.S. (University of Science and Technology of China)

of China) Chemical Physics Dr. Anne McCoy Dr. Terry Miller

Warren Huard, Columbus B.A., M.A. (McGill University) Greek and Latin Dr. Sarah Johnston

Sarah Ann Huber, Boston, MA B.S., M.Soc,Work, MPA

B.S., M.Soc.Work, MPA Social Work Dr. Sharvari Karandikar

Breana Michele Hull, Westerville

B.S.Nurs., M.S. Nursing Dr. Jodi Ford

**Md. Mynul Islam**, Barisal, Bangladesh B.S.Agr. (Khulna University)

M.S. (Bangabandhu Sheikh Mujibur Rahman Agricultural U) Plant Pathology

Plant Pathology Dr. Sally Miller

Avinash Jaiganesh, Columbus B.Tech. (Anna University)

M.S. Biophysics

Dr. Marcos Sotomayor

Ritesh Jain, Karnal, India B.A. (University of Delhi) M.A. (Jawaharlal Nehru University) M.A.

Economics

Dr. Paul Healy

Zachary Kyle Jankovsky, Lima

B.S. (Bradley University) M.S.

Nuclear Engineering Dr. Tunc Aldemir

Tanushree Jhunjhunwala, Kolkata, India B.S. (University of Texas)

M.A. Fronomics

Dr. John Kaael

Weifeng Ji, Shanghai, China B.S. (Shanghai Jiao Tong University) M.S.

Physics

Dr. Christopher Hill

Xiaonan Ji, Xinzhou, China B.S. (Beihang University) MS

Computer Science and Engineering Dr. Alan Ritter Dr. Po-Yin Yen

Yeongseong Jo, Columbus B.S. (Sogang University)

M.S. Mathematics Dr. James Coadell

Christa M. Johnson, Columbus

B.A. (Ursinus College) Philosophy Dr. Piers Turne Dr. Edward D'Arms

Kirsten Marie Johnson, Columbus B.S. (Brigham Young University)

Integrated Biomedical Science Graduate Program Dr. Stephen Lessnick

Korrie Dchonn Johnson, Memphis, TN B.A. (University of Memphis)

Sociology Dr. Reanne Frank

Seth Joshu Josephson, Columbus B.A., M.A.

Comparative Studies Dr. Hugh Urban

Hedy Melissa Justus, Amarillo, TX B.A. (Texas Tech University) M.S. (Bournemouth University) Anthropology

Dr. Samuel Stout

Sanja Kadric, Seattle, WA B.A. (Seattle University)

M.A. History

Dr. Jane Hathaway

Niranian Ganesh Kamat, Mumbai, India B.S. (National Institutes of Technology, India)

M.S. (State University of New York) M.S.

Computer Science and Engineering Dr. Árnab Nandi

Ryan Robert Kapa, Hilliard B.A. (University of Delaware) M.S. (North Carolina State University) Education

Dr. Belinda Gimbert

Melissa Skarl Kappes, Westerville B.A., M.A.

Speech and Hearing Science Dr. Lawrence Feth

Brandon Lee Kemerling, Peoria, IL B.A. (Monmouth College) MS

Welding Engineering Dr. John Lippold

Scott Allen Kennedy, Glendale, AZ B.A., B.S.Bus.Adm. (University of Arizona) Greek and Latin Dr. Anthony Kaldellis

Nathaniel Thomas Kenton, Hanover, NH B.S., M.S. (Northeastern University) Chemistry

Dr. Craig Forsyth

Alan Christopher Kessler, Columbus B.S. (Indiana University of Pennsylvania) Microbiology

Dr. Juan Alfonzo

Gabriel Jamil Hart Khan, Pickerington B.A. (Boston University) M.S.

Mathematics Dr. Fangyang Zheng

Joanne Sue-Kyung Kim, Columbus B.A. (John Carroll University)

ΜΔ English Dr. Clare Simmons

Andrew Daniel Klarner, Columbus B.S.Mat.Sci.Eng. (University of Tennessee) M.S.

Materials Science and Engineering Dr Aihua Luo

Minkyung Koh, Columbus B.S. (Konkuk University) M.A. (Seoul National University)

Geography Dr. Edward Malecki

Hui Kong, Zhangzhou, China B.S., Bachelor's (Peking University) M.A.

Geography Dr. Dianzhi Sui

Kiel Kreuzer, Columbus

B.S. (Ohio University) Molecular, Cellular, and Developmental Riology Dr. Tina Henkin

Seulki Ku, Koyang-si, Korea B.A. (Ewha Womans University) Human Sciences Dr. Xin Fena

Vidhya Kumar, Mason B.S., M.A. (Boston University) Integrated Biomedical Science

Graduate Program Dr. Subha Raman

Deborah Elizabeth Kunkel, Columbus

B.A. (University of Dallas) MS

Statistics Dr. Mario Peruggia

Yu Hang Lai, Columbus B.S. (Chinese University of Hong Kong) Physics Dr. Louis DiMauro

Yingchao Lan, Chengde, China B.Engr., Master's (Beihang University) Rusiness Administration

Dr. John Gray Dr. Aravind Chandrasekaran

Matthew Richard LaRue, Convoy B.S. (Valparaiso University)

M.S. Electrical and Computer Engineering Dr. Waleed Khalil

KvongWeon Lee, Seoul, Korea B.A. (Soongsil University) M.Soc.Work (Washington University in Saint Louis)

Social Work Dr. Holly Dabelko-Schoeny

Nam Gang Lee, Columbus B.Bus.Adm. (Sogang University) M.S. (Korea Advanced Institute of Science and Technology)

M.A. Economics Dr. Pok-Sang Lam

Seungiun Lee, Daegu, Korea B.S.Agr. (Kyungpook National University) мς

Environmental Science Dr. Jiyoung Lee

Yoon Kang Lee, Seoul, Korea B.S.Bus.Adm. (Seoul National University) M.S. (Stanford University) Business Administration

Dr. Ingrid Werner Dr. Justin Birru

Eric Scott Lenko, Lewis Center B.S., M.Phys.Ther. (Ohio University)

Anatomy Dr. John Bolte

Hubert Leveille Gauvin, Verdun, Canada B.Music, M.A. (McGill University) Music

Dr. David Huron

Da Li. Columbus B.Educ. (Sichuan Normal University) M.Educ. (Sichuan University) M.S. (University of Texas) **Fducation** Dr. Ann Allen

He Li, Beijing, China B.S. (Xi'an Jiaotong University) M.S.

Electrical and Computer Engineering Dr. Jin Wang

Jilong Li, Chengdu, China Bachelor's (Southern Medical University) Master's (University of Pittsburgh) Pharmaceutical Sciences Dr Robert Lee

Li Li, Beijing, China B.Engr. (Tianjin University) M S

Electrical and Computer Engineering Dr. Xiaorui Wang

Jiongqian Liang, Columbus B.Engr. (Beihang University)

Computer Science and Engineering Dr. Srinivasan Parthasarathy

Yongxiao Lin, Shanwei, China B.S. (Sichuan University) M.S. (Shandong University) M.A. (State University of New York)

Mathematics Dr. Roman Holowinsky

Jiayi Liu, Columbus B.S. (Winona State University) M.S.

Chemistry Dr. Susan Olesik

Jillian Mei-ling Liu, Columbus Bachelor's (Cornell College) Integrated Biomedical Science Graduate Program Dr. Jose Otero

Yen-Ling Liu. Taichung City. Taiwan B.S., M.S. (National Taiwan University) Civil Engineering Dr. John Lenhart

Nicholas Emerson Long, Rochester Hills, MI B.A. (Albion College)

Ohio State Biochemistry Program Dr. Thomas Magliery

Thaddeus Song En Low, Raub, Malaysia B.S. (State University of New York) M.S.

Materials Science and Engineering Dr. Stephen Niezgoda

Steven Phillip Lownes, Pauline, SC B.A., M.A. (University of South Carolina) МΔ

Spanish and Portuguese Dr. Pedro Pereira

Weijie Mai, Guangzhou, China Bachelor's (Zhejiang University) M S

Materials Science and Engineering Dr. Soheil Soghrati Dr. Rudolph Buchheit

Urmi Maiumdar Lewis Center B.S., M.S. (University of Calcutta) Geological Sciences Dr Ann Cook

Sankalp Malhotra, Downers Grove, IL B.A. (Miami University) Integrated Biomedical Science Graduate Proaram Dr. Daniel Wozniak

Louis Maurice Maraj, Columbus B.A. (Ramapo College of New Jersey) M.A. (Texas Tech University) English

Ashley Davaei Markazi, Wooster B.S. (University of Illinois)

MS Animal Sciences Dr. Ramesh Selvarai

Dr. Wendy Hesford

Dr. Michael Lilburn Kathryn Marklein, Columbus

B.S. (Emory University) M.S. (University College London, University

of London) M.A. (University of Sheffield)

Anthropology Dr. Clark Larsen

Daniel Taylor Martens, Pickerington B.Music, B.S. (University of Cincinnati) MS

Physics Dr. Christopher Hirata

Austin John McCabe Juhnke, Columbus

B.A. (Bethel College) Music Dr. Danielle Fosler-Lussier

Brendan McCarthy, Lakewood B.A. (Saint Mary's College of Maryland) History

Dr. Nathan Rosenstein

William David McCulloch, Nelsonville

B.S. (Marietta College) Chemistry Dr. Yiying Wu

Bonnie June McCutcheon, Gettysburg, PA B.A. (The College of New Jersey)

M.A.

History Dr. Gregor Anderson

Bruce Daniel McFall Grandview Bachelor's, B.S. (Wright State University)

B.S.Mech.Eng., M.S. Industrial and Systems Engineering Dr. Jose Castro

Daniel John McGregor, Columbus B.S., M.S.

Mathematics Dr. Kenneth Loper Katherine Mary McKenney, Columbus

B.S. (University of Wisconsin) Ohio State Biochemistry Program Dr. Juan Alfonzo

Katherine Elizabeth Miller, Dayton B.A., B.S.Educ, (Miami University) M.S. (University of Dayton) Education Dr Patricia Brosnan

Adam Edward Mitchell. Bartlesville. OK B.S.Elec.Eng., M.S. (University of Oklahoma) Electrical and Computer Engineering Dr. Graeme Smith

Andrew Lawrence Moffatt, Westerville B.F.A., B.Art.Ed., M.A.

Arts Administration, Education and Policy Dr. Shari Savage Dr. Deborah Smith-Shank

Daniel Ross Moore, Columbus B.S. (Lovola Marymount University) Mathematics

Dr. James Cogdell Rick Albert Lionel Morasse.

Port Colborne, Canada B.S. (University of Notre Dame) Chemistry Dr. Joshua Goldberger

Colleen Patricia Morrissey, Columbus

B.A. (University of Iowa) M.A. (University of Kansas) Enalish Dr. Robyn Warhol

Dorothy Russo Moulthrop, Shaker Heights B.A. (Northwestern University)

M.A. (Ursuline College) Education Dr. Antoinette Frrante

Dr. Belinda Gimbert

Rajaditya Mukherjee, Kolkata, India Bachelor's (Jadavpur University)

Computer Science and Engineering Dr. Huamin Wang

Smarajit Mukherjee, Vishakapatnam, India B.Tech. (Indian Institute of Technology

Madras) Mechanical Engineering Dr. Ahmet Selamet

Maura A. Murphy, Columbus B.A. (Saint Mary's College) Master's (Ohio University) Human Sciences Dr Rrian Turner

Esmaeil Najar Daronkolae, Columbus Bachelor's (Allameh Tabatabaei University) Master's (Kharazmi University)

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Madeline Claire Garner, St. Louis Park, MN Interdisciplinary Programs

Ana Maria Gomez Ramirez, Columbus Diploma, TituloBach (Fundacion Escuela de medicina Juan N. Corpas) Interdisciplinary Programs Megan E. Harkness, Orient

B.S.Nurs. (Ohio University) Interdisciplinary Programs

Rachel Jewell, Groveport B.S. Humn. Ecol.

Interdisciplinary Programs

**Sridivya Kosuri**, Lewis Center B.Med.B.Surgry. (Dr NTR University of Health Sciences)

Interdisciplinary Programs

Isac Varghese Kunnath, Beachwood B S

Interdisciplinary Programs

Leah Kathleen Miller, Kansas City, KS R S

Interdisciplinary Programs

Christine Reneé Mulligan, Galloway B.A. (Olivet Nazarene University) Interdisciplinary Programs

**Emily Palmisano**, Concord, NH B.S. (Stonehill College) Interdisciplinary Programs

Jennifer Rinehart, Galloway

Interdisciplinary Programs

Nidhi Sharma, Columbus B.S., M.S. (University of Delhi) Ph.D. (Jamia Hamdard) Interdisciplinary Programs

Clare Marie Stevens, Groveport B.S.

Interdisciplinary Programs

Master of Applied Economics

**John Robert Beech**, Cincinnati B.S.Agr.

Applied Economics

Arvjol Kapaj, Dublin

B.S. Applied Economics

Nathaniel Allen Kramer, Dublin B.S.Chem.Eng.

B.S.Chem.Eng.

Applied Economics

Francis Cyril Strodel, Columbus B.A. (Cornell University)

Applied Economics

Zhechuan Sun, Beijing, China Bachelor's (Capital University of Economics and Business) Mstr.H.R.M. Applied Fronomics

Carolina Josepha Claire Johanna Vergroesen,

Vught, Netherlands B.S.Bus.Adm. Applied Economics Yuan Wang, Lianyungang, China B.A.

Applied Economics

**Master of Applied Statistics** 

Willy Hu, Columbus B.A. (University of Chicago) Statistics

Laura Lee Jones, Pickerington B.A. (Washington & Jefferson College) Master's (Ohio University) Statistics

**Wenjun Meng**, Suzhou, China B.A. (University of South Florida) *Statistics* 

Nicholas John Rockwood, Columbus B.A. (California State University)

Statistics

**Peipei Tang**, Shanghai, China B.S. (Fudan University) Statistics

James Joseph Willard, Columbus B.S.

Statistics

Lu Zhang, Dublin B.S. (Fudan University) M.S. (Peking Union Medical College) Ph.D. Statistics

Ran Zhao, Columbus Master's (University of Chinese Academy of Sciences)

Ph.D. Statistics

Master of Architecture

James P. Amicone, Mount Gilead B.S.Arch.

Architecture

Stephen Turner Angus, Aurora Architect (Bowling Green State University)

Architect (Bowling Green State University Architecture

Molly Gardner Clarke, Columbus B.A. (Lafayette College) Architecture

Lindsay René Conkel, Orient B.S.Arch.

Architecture

Rachael Elizabeth Dzierzak, Perrysburg B.S.Arch. Architecture

Brent Michael Hall. Columbus

Architecture

**Alexander Thomas Jakovina**, Youngstown B.S.Arch.

Architecture

Sana Talat Khwaja, Dublin

B.S.Arch.

Architecture

Nathan Andrew Lephart, Columbus B.S. Arch

B.S.Arcn. Architecture

Shauna Patrice Lindsey, Jeffersonville, IN B.S.Arch.

Architecture

Yevgeniy Nudel, Reynoldsburg

B.S.Arch. Architecture

**Alexander William Nyktas**, Cincinnati B.S.Arch. (University of Cincinnati) *Architecture* 

**Erin Elizabeth Pesa**, Upper Arlington B.S.Bus.Adm.

Architecture

Michael Patrick Rennekamp, Galena B.S.Arch.

Architecture

Daniel P. Schiering, Westerville

B.S.Arch. Architecture

Patrick James Small, Napoleon B.S.Arch. (Bowling Green State University) Architecture

Philip Leland Sour, St. Paris

B.S. (University of Cincinnati)

Architecture

**Joshua John Tomey**, Columbus B.A., B.S. (University of Minnesota) *Architecture* 

Nadia Voynova, Athens B.S. (Ohio University)

Architecture

Sara Ann Webb, Wadsworth B.S. (Bowling Green State University)

B.S. (Bowling Green State University Architecture

Daniel Forrest Yontz, Columbus B A

Architecture

Master of Arts

**Dinah Adams**, Columbus B.A. (Heidelberg University)

Communication

Ashima Aggarwal, New Delhi, India B.A. (University of Delhi) M.A. (Jawaharlal Nehru University) Ph.D. (University of Florida) Speech-Language Pathology Program

**Melissa Alcaraz**, Burley, ID B.S. (Brigham Young University) *Sociology* 

**N. Vivian Alsop**, Columbus B.A. (Brigham Young University) *Public Policy and Management* 

Reagan Collins Ambler, Tellico Plains, TN B.A. (University of Alabama) Education

Hanin Majed Amireh, Hilliard B.A. (Hashemite University) Education

**Ahmad Choirul Anwar**, Jember, Indonesia B.Educ. (University of Jember) *Education* 

**Bhudayal Arjune**, Cleveland B.A. (Ohio Wesleyan University) *Education* 

**Bhuneshwar Arjune**, Cleveland B.A. (Ohio Wesleyan University)

**Alan Charles Bannister**, Columbus B.A. (University of Illinois)

Speech-Language Pathology Program

Heath Barron, Columbus B.Mus.Ed.

Speech-Language Pathology Program

**Haley Anne Beck**, Napoleon B.A. Speech-Language Pathology Program

**Megan Bell**, Frazeysburg B.S. (Brigham Young University) *Education* 

**Myles Bell**, Columbus B.A. (James Madison University) Public Policy and Management

**Caroline Nicole Bennett**, Tulsa, OK B.A. (University of Oklahoma) *Women's, Gender and Sexuality Studies* 

Caitlin Berry, Avon Lake B.A. (Loyola University Maryland) Speech-Language Pathology Program

**Timothy James Berryman**, Old Lyme, CT B.A. (Franklin and Marshall College) M.A. (University of Oklahoma) *Philosophy* 

**Jordan M. Birkemeier**, Columbus B.S.Educ. *Public Policy and Management* 

Carol Michelle Bitzinger, New Albany B.A. English

Justin Edward Bland, Columbus B.A. (Saint Lawrence University) M.A. (Virginia Polytechnic Institute and State University) Spanish and Portuguese

**Katrina Lorene Bowen**, Reynoldsburg B.S.Educ. (Ohio University) *Education* 

**Erin Bradley**, Columbus Speech-Language Pathology Program

**Jonathon Andrew Bradshaw**, Gahanna B.Mus.Ed. *Music* 

**Anna Camille Brady**, Columbus B.S. (Florida State University) *Education* 

**Briana Brownlow**, Louisville, KY B.A. (Spelman College) *Psychology* 

**Timothy Ford Bryson**, Cincinnati B.S. (University of South Carolina)

Sarah Laurel Buckalew, Columbus

East Asian Languages and Literatures

**Michelle Nicole Bullock**, Columbus B.A.

Speech-Language Pathology Program

**Emily Claire Bumpus**, Columbus B.S.Educ. (Ohio University) *Education* 

**Cameron Richard Carter**, Columbus B.S.Educ. (Youngstown State University) *Education* 

Ashley Lauren Cary, Columbus B.S.Educ. (Tennessee Technological University) Education

**Caroline Chao**, Upper Arlington B.S.Bus.Adm., B.A. *Public Policy and Management* 

Sheng-Lun Cheng, Columbus B.A. (Wenzao Ursuline University of Language) M.A. (New Mexico State University) Folucation

**Benjamin Louis Cleary**, Omaha, NE B.A. (University of Nebraska) *Philosophy* 

**Jacob Richard Coakwell**, Zanesville B.A. (Brigham Young University) Slavic and East European Studies Rachel Cochran, Centerville B.S. (University of Kentucky) Speech-Language Pathology Program

**Katalina Colon**, Columbus B.A. (University of Washington) *Education* 

**Eric William Connelly**, Columbus B.A.
Slavic and East European Studies

**Diane Mary Cormier**, Hilliard B.A. (University of Notre Dame)

Brett L. Cosma, Hilliard B.S.Cptr.Sci.Eng. (DeVry Institute of Technology) Public Policy and Management

**Kaitlin Cox**, Liberty Township B.S. (University of Cincinnati) Speech-Language Pathology Program

Marcell Antyonne Crawford, Jr., Gainesville, VA Education

**Tess Elizabeth Cumpstone**, Chagrin Falls Women's. Gender and Sexuality Studies

Ryder Robert Cunningham, Tuscarawas B.A. (Muskingum University) M.A. (Bowling Green State University) Spanish and Portuguese

**Elise Lydie Daigle**, Wurtsboro, NY B.Music (Ithaca College)

Brandon Scott Davis, Dresden B.S. (Bowling Green State University) M.S. (Troy University) Slavic and East European Studies

**Ryan Danna Davis**, Syracuse B.S.Educ. (Ohio University) *Education* 

Kristin Dell'Armo, Park Ridge, NJ B.S., M.A.Teach. (The College of New Jersey) Psychology

**Lirika Demiri**, Ferizaj, Kosovo Bachelor's (Universiteti I Prishtines) *Women's, Gender and Sexuality Studies* 

**Courtney Leigh DeRoche**, Columbus B.A. *Sociology* 

**Kendra Vorbach Dickinson**, Chicago, IL B.A. (University of Illinois) M.A. (Boston University) Spanish and Portuguese

**Nicole Marie Dickman**, Holland B.S. (University of Dayton) Education Omar Dieng, Columbus Master's (Cheikh Anta Diop University) African-American and African Studies

Jacqueline Donley, Pickerington B.A. (Ohio University) M.Educ. (Boston University) Education

**Patricia L. Doyle**, Worthington B.S. (Creighton University) *Public Policy and Management* 

**Stacy Whitted Drummond**, Port Clinton B.S. (Bowling Green State University)

Education

**Kabe Alan Eichenauer**, Columbus B.S.Humn.Ecol., M.Educ. *Education* 

Tania Espinales Correa, Mexico City, Mexico Licenciatu (National Autonomous University of Mexico) Magister (Adam Mickiewicz University)

Master's (University of Santiago de Compostela) M.A. (University of Sheffield) Spanish and Portuguese

**Shane Farnsworth**, Columbus B.S. (Wright State University) *Public Policy and Management* 

**Leah Rachel Fein**, Solon B.S.Educ. *Education* 

**Mia Carli Ferraina**, Kenmore, NY B.A. (State University of New York) *Education* 

Justin Tynne Fields, Columbus B.Music

**Lindsay Danielle Finneran**, Columbus B.A. (Walsh University)

Public Policy and Management

Mary Nell Sumando Flores, Columbus B.A. (University of San Jose-Recoletos) Public Policy and Management

**Tannya Lee Forcone**, Barberton B.A. (University of Akron) *Anthropology* 

Lisa Marie Ford, Granville B.S.Educ. (Ohio Dominican University) B.A.

Rachel Elaine Foster, Cincinnati B.S.Educ. (Miami University) Education

**Jennifer Lynn Foudray**, Dayton B.S.Agr. *Education* 

**Goldie D. Fraley**, Somerset B.S. (Ohio Dominican University) *Education* 

**Christopher V. Frasure**, Canal Winchester B.S. (Ohio University)

Education

**Elizabeth Friesland**, Columbus B.Educ. (Bowling Green State University) *Education* 

**Melissa Suzanne Funk**, Columbus B.A. *Education* 

**Chuhan Gao**, Xi'an, China B.A. (Xi'an International Studies University)

Xuan Ge, Qingdao, China B.A. (Shandong University of Science & Technology) Education

Jerome Joel Pierre Gendrot, Pleuven, France

Master's (Eotvos Lorand University)
French and Italian

**Diana Gail Gerber**, Columbus B.A.

Public Policy and Management

**Chad Giganti**, Columbus B.S.Bus.Adm. (Seton Hall University)

Cameron James Givens, Contoocook, NH B.A. (Boston College) *History* 

**Jordan Nelson Gomes**, New Bedford, MA B.A. (Bridgewater State University) *Education* 

**Evelyn Garcia Grace**, Apple Valley, CA B.A. (University of California)

**Timothy R. Graham**, Columbus B.S.Educ., M.A. *Education* 

Ricardo Graiff Garcia, São Paulo, Brazil Bachelor's (Fundacao Armando Alvares Penteado) Political Science

**Ashley Marie Gregory**, Dublin B.S.Educ. (Miami University) *Education* 

Joseph Andrew Guzman, Woodhaven, NY B.A. (Saint Josephs College)

**Danell Lee Hall**, Cardington Education

**Taylor Kennedy Hanes**, Toledo Bachelor's (Bowling Green State University)

**Ashley Jane Hansen**, Columbus B.A. (DePaul University)

Education

**Kaylee Marie Hartman**, Cape Coral, FL B.S. (Florida State University) *Education* 

**Elyssa Hope Hausman**, Boca Raton, FL B.A. (Emory University) *Education* 

B.A.

Education

Shannon Elizabeth Herbert. Centerville

Julie Suk Hazel, Columbus

B.A. (Wright State University)

East Asian Languages and Literatures

**Katherine Nancy Hildebrandt**, Portland, OR B.A. (Rice University) *Education* 

**Sarah Ann Hinkelman**, Garfield Heights B.A. (Ohio University) *Anthropology* 

Neil Michael Hohman, Pickerington B.S.Educ. (Otterbein University) M.Educ. (Ashland University) Fducation

Stephanie Homan, Cincinnati

Education

**Austin Yvonne Hubner**, Columbus B.A. (Washington State University) *Communication* 

**Rebecca Miriam Hudgins**, Columbus B.A. (Northern Kentucky University) *English* 

**Deborah Hope Immel**, Columbus B.A. *Education* 

Arielle Irizarry, Columbus B.A. (City University of New York, Hunter College) English

**Benjamin Jensen**, Columbus B.A. (Creighton University) *Education* 

**Emily Morlan Johnston**, Grove City B.A.

Speech-Language Pathology Program

Stephanie Eunhae Kang, Columbus B.F.A. (Calvin College) M.F.A. (Washington University in Saint Louis) History of Art

Andrew James Keohane, Riverside, CA MechEngin (University of California) Education

Sarah E. Kern, Hilliard B.A. (Indiana University Purdue University Indianapolis) Education

**Raymok Ketema**, Berkeley, CA B.A. (University of California) *African-American and African Studies* 

**Cathern Virginia King**, Columbus B.S.Humn.Ecol. *Education* 

**Jennifer Nichole King**, Powell B.A.
Speech-Language Pathology Program

**Lauren Colette Klingshirn**, Hudson B.A. (College of Wooster)

Mackenzie Kloepfer, Westerville B.A. (Kent State University)

**Miranda Danielle Koffey**, Newark B.A.

Arts Administration, Education and Policy

Kristen Alise Kolenz, Stow B.A. (John Carroll University) Women's, Gender and Sexuality Studies

Luana Lamberti Nunes, Canoas, Brazil Bachelor's (Universidade Federal do Rio Grande do Sul) Spanish and Portuguese

Mary Brooke Langenfeld, Columbus B.A. (Miami University)

Education

**Morgan LeeAnn Lanham**, Cincinnati B.A. (Miami University) *Education* 

**Sara Elizabeth Laughlin**, Columbus B.S.Pub.Hlth.

**Taylor Nicole Law**, Gahanna B.A. (Miami University) *Education* 

**Amelia Michelle Lawson**, Sparta, GA B.A. (Georgia State University) *English* 

**Dasom Lee**, Columbus B.A. (Cornell University) *Psychology* 

**Ji Hye Lee**, Bucheon, Korea B.S.Educ. (Miami University) *Education* 

Jungmin Lee, Columbus B.A. (Silla University) M.A. (International Grad School of English) Education

Kayla Brooke Lee, Dublin B.S.HDFS Education

**Sang Ho Lee**, Suwon-si, Korea B.A., M.S. (Korea University) *Psychology* 

Young Joo Lee, Seoul, Korea B.A. (Sungshin Women's University) B.A. (Korea National Open University) Cert Tesol (Hanyang University Seoul Campus) Education

Dongxu Li, Luzhou, China Bachelor's, Master's (Renmin University of China) Economics

**Tangchen Li**, Guangzhou, China B.Educ. (South China Normal University)

Jacqueline Lima Coelho Sampaio, Ananindeua, Brazil Titulo.Bach. (Universidade Federal do Para) Portuguese

**James Daniel Lindroth**, Columbus B.Music (University South Carolina) *Music* 

Sarah Elyse Little, North Ridgeville B.A. M.A. (University of Illinois) Spanish and Portuguese

Stephen Lo, Boston, MA B.S. (Boston College) M.A. (Boston University) Psychology

Charles Anthony LoFaso, Rochester, NY B.A. (Indiana University) M.B.A. (Northeastern University) J.S. (State University of New York) M.S. (Michigan State University) Sociology

Cesar Lopes Gemelli, Porto Alegre, Brazil Licenciatu, M.A. (Universidade Federal do Rio Grande do Sul) M.A. (University of Notre Dame) Portuguese

**Lin Lu**, Beijing, China Bachelor's (Beijing Normal University) *Education* 

Amber Nicole Lucci, Columbus B.A. (Mount Vernon Nazarene University) Public Policy and Management **Brittany Nicole Lynner**, Stow B.A.

Education

**Jiawenfang Ma**, Kuytun, China B.A. (University Of Sunderland)

**Anisatul Maghfiroh**, Pekalongan, Indonesia B.Educ. (Universitas Negeri Semarang) *Education* 

Monika Major, Columbus B.A., M.A.

**Shunichi Maruyama**, Machida-shi, Japan B.A. (Aoyama Gakuin University) *East Asian Languages and Literatures* 

Megan Lynn Mastrobuono, Westerville B.A. (Muskingum University) M.A. (Otterbein University)

Katherine Ann McAfee, Temple, TX B.S. (Baylor University) Public Policy and Management Slavic and East European Studies

Theresa Marie McCarthy, Columbus R A (John Carroll University)

B.A. (John Carroll University)

Education

**Yeri Theresa McClain**, Dublin B.A. *East Asian Languages and Literatures* 

**Lindsay Anne McCord**, Shaker Heights B.A. *Education* 

Whitney McCormick, Columbus B.S. (University of Toledo)

**Shelley Kay McCoy**, Worthington B.S.Educ. *Education* 

**Sara Elizabeth McGee**, Barnesville B.S. (Muskingum University) *Education* 

Michael A. McManaway, Orient B.S. (Ohio Dominican University) Public Policy and Management

**Christopher Keegan Mezger**, Columbus B.A. (University of Southern California) *Near Eastern Languages and Cultures* 

Hannah E. Mielke, Columbus B.A. (Hope College) Education

**Brittany Erin Miller**, Galloway B.A.

Public Policy and Management

**Grace Elizabeth Miller**, Columbus B.A. (College of Wooster) *Education* 

Katherine Miller, Blacklick B.A. (University of Chicago) Speech and Hearing Science

Peter Edward Moeller, Columbus B.Music (Illinois Wesleyan University) Music

Sara Anne Moss, Bethesda, MD B.A. (Dickinson College) Psychology

**Amanda Mucci**, Columbus B.S. (University of Central Florida) *Education* 

Sebastian Ignacio Munoz Ruz, Columbus Licenciado, Magister (Universidad Alberto Hurtado)

Spanish and Portuguese

**Michael David Murawski**, Columbus B.A. (University of Akron) *Political Science* 

**Brynna Newkirk**, Columbus B.A. (Rhodes College)

Education

Kathy Lynn Nowak, Grove City B.S. (United States Military Academy) Near Eastern Languages and Cultures

Jill Ann O'Neill, Columbus B.S.Cptr.Sci.Eng. Public Policy and Management

**Anna Elizabeth O'Reilly**, Hebron B.A. (Capital University)

Education

Rachel Ostrander, Liverpool, NY B.Music (Buffalo State College) *Music* 

Ally Page, Grove City B.S. (Eastern Kentucky University) Speech-Language Pathology Program

**James John Palestro**, Hubbard B.A. (Youngstown State University) *Psychology* 

**Angela Lynn Panzero**, Perrysburg B.S. *Education* 

Eun Jeong Park, Columbus
B.A. (Korea National University of Education)
M.A. (Yonsei University)
M.S. (State University of New York College)
M.A.
Education

**Stephanie Parrott**, Dayton B.A. (University of Kentucky) *Speech-Language Pathology Program*  **Laura Elizabeth Pearce**, Dublin B.A.

M.A. (University of North Carolina)
East Asian Studies

Brenda Perez, Columbus B.A. (Otterbein University) Speech-Language Pathology Program

Amanda Lynn Petry, Medina

Education

Paloma Pinillos Chavez, Lima, Peru B.A., M.A. (Pontifical Catholic University of Peru)

Master's (Menendez Pelayo Inter Univ) Spanish and Portuguese

Andrea Louise Pore, Worthington B.S. (University of Dayton) Master's (Ohio Dominican University) Education

**Kaylee Lyn Port**, Columbus B.S.Agr. *Public Policy and Management* 

Jane Elizabeth Powell, North Baltimore B.A. (Bowling Green State University) East Asian Studies

**Brittany Previte**, Chagrin Falls B.A. (College of Wooster) *English* 

Esteli Puente Beccar, Cochabamba, Bolivia Licenciatu (Universidad Internacional SEK) Diploma (Universidad Mayor de San Andres) M.A. (Universidad Mayor de San Simon) Diploma (Universidad Catolica Boliviana) M.A. (University of Leiden) Soanish and Portuauese

**Malachi J. Pulliam**, Bainbridge B.S.Educ. *Education* 

Emily Rocio Rangel Manrique,

Merida, Venezuela Titulo.Bach. (Universidad de Los Andes) Spanish and Portuguese

**Jody Lynn Rapp**, Hilliard B.A. (University of Mount Union) *Education* 

Katherine Moira Anne Ratino, Avon B.A. Speech-Language Pathology Program

Chrissy Ann Rawlins, Butler

B.A. Speech-Language Pathology Program

**Tyler Morgan Ray**, Wilmington B.A.

Speech-Language Pathology Program

Rachel Elana Richman, Columbus B.A. (University of Chicago) Near Eastern Languages and Cultures

**Kyle John Riordan**, Canton B.A. (Cleveland State University) *Anthropology* 

Wayne Marcel Ritter, Grandview Heights B.A. (Brown University) M.B.A.

Public Policy and Management

**Nicholas Alexander Rodriguez**, Sarasota, FL B.A. (University of Miami) *Education* 

**Victor Javier Rodriguez**, Columbus B.A. (Florida International University) *Education* 

Justin Tyler Rogols, Circleville B.A. M.B.A. (Bowling Green State University)

**Jordan Christopher Rosenfield**, Columbus B.Educ. (Miami University)

Education

**Sara Marie Roush**, Hilliard B.A. *Speech-Language Pathology Program* 

**Ann Maureen Rush**, Liberty Township B.S.Educ., M.B.A. (University of Cincinnati) *Education* 

Lauren A. Sabo, Columbus B.A. (Denison University) M.A. (University of Colorado Denver) Public Policy and Management

**Dwayne G. Sattler**, Westerville B.A. (Bowling Green State University) Public Policy and Management

**Shannon Nicole Savard**, Litchfield, NH B.A., M.A.Teach. (Hobart and William Smith Colleges) *Theatre* 

**Madison Taylor Sayre**, Orient B.A. *Education* 

**Dennis Schaefer**, Herzogenrath, Germany B.A. (University of Cologne) Germanic Languages and Literatures

Victoria Jewell Schenker, Columbus B.A. (University of North Carolina) M.A. Education

**Danielle Marie Serio**, Twinsburg B.A.

Speech-Language Pathology Program

Jaclyn Jean Serpico, Columbus RΔ

Women's, Gender and Sexuality Studies

Daniel Sheehan, Columbus

BSCRP

Public Policy and Management

Isabelle Rose Shepp, Tobyhanna, PA B.A. (George Mason University) **Fducation** 

Stephanie Renae Smiley, Columbus R Mus Ed

Music

Zane Tanner Smith, South Webster RΑ

Speech-Language Pathology Program

Katie Elizabeth Snider, Coshocton B.S. (Muskingum University)

Education

Rachel Eileen Spear, Columbus B.S. (Houghton College)

Speech-Language Pathology Program

Catherine Hamilton Spratt, Hixson, TN B.A. (Indiana University) **Fducation** 

Katy Ann Straily, Columbus

B.A. East Asian Studies

Susan Marie Strayer, Hilliard B.A., M.F.A. (Hollins University) Education

Brian Strzempkowski, Pickerington

Public Policy and Management

Samyuktha Sunil, Chennai, India B.A., M.A. (University of Madras) Public Policy and Management

Jacqueline Renee Tardif, Columbus B.A.

Speech-Language Pathology Program

Kelly Renee Taylor, Columbus B.A. (University of Oklahoma) M.A. (University of Notre Dame) Greek and Latin

Anthony Guy Tenney, New Bremen

Women's, Gender and Sexuality Studies

Abigail Marie Thiemann, Cincinnati B.A.

Speech-Language Pathology Program

Breanna Fajardo Thornton, Chattanooga, TN B.S. (Southern Adventist University) Music

Allison Mary Tittiger, San Francisco, CA B.S. (San Diego State University) Education .

Ryan Vinh To, San Diego, CA B.A. (University of California) Education

I Shan Tsai, Tainan City, Taiwan B.A. (Natl Changhua Un of Educ) Education 5

Alexandra Christianne Tuggle, Tucson, AZ B.S. (University of Arizona) Anthropology

Bryan Keith Underkoffler, Tower City, PA B.S. (Pennsylvania State University) **Fducation** 

Mackenzie Kathryn Utz, New Washington

Speech-Language Pathology Program

Evan James Van Tassell, Columbus B.A. (Hamilton College) M.S., M.B.A. (Northeastern University) Enalish

Ryan Earl Vilfer, Granite Bay, CA B.A. (California Polytechnic State University) Education

Akhila Vishnubhotla, North Potomac, MD B.A. (University of Maryland) Education .

Maxine Rose Wagenhoffer, Edison, NJ B.A. (Rutgers University) History

Cara Walton, Akron B.S. (Bowling Green State University) Speech-Language Pathology Program

Michaela Flizabeth Warner Summerfield RS Education

Trestin Robert Weikle, Marysville

RΛ Education

Patricia Rose Williams. Cincinnati

Speech-Language Pathology Program

Erik Anthony Wisniewski, West Chester B.A. Political Science

Patricia Evelyn Wolfe, Columbus

B.S. (Elizabethtown College) **Fducation** 

Jessica Anne Wood, Columbus B.A. (Ursuline College) Public Policy and Management

Amy Anne Woods, Wooster

B.A.

Speech-Language Pathology Program

Michelle C. Yang, Rowland Heights, CA B.A. (California State University) Fducation .

Ye Yuan, Nanchang, China Bachelor's (Jiangxi Normal University)

Mayuko Yusa, Sendai, Japan B.A. (Dokkyo University) M A (Tohoku University) East Asian Languages and Literatures

Lauren Michelle Zacks, Columbus

Public Policy and Management

Kaili Zeng, Yiyang, China B.A. (Hengyang Normal University) Education

Ane Zorrilla Rodriguez, Gorliz, Spain B.A. (University of Deusto) Spanish and Portuguese

### Master of Business Administration

Nitish Aggarwal, Dublin RS

Business Administration

Faisal Saad A Almadhi. Rivadh. Saudi Arabia R A (Seattle University) **Business Administration** 

Basheer Sadiq J Almattar, Saihat, Saudi Arabia B.A. (Michigan State University)

Karla Ann Bachi, Springfield B.A. (Lovola University Chicago) Business Administration

Business Administration

Amneet Kaur Bajwa, Dublin

**Business Administration** 

Corey Joseph Balogh, Columbus

Rusiness Administration

Thais Batista Ronconi, Columbus Titulo.Bach. (Universidade Federal do Espirito Santo) Certificat (Universidade de Sao Paulo)

Business Administration

Cathy Latrice Bean, Pickerington B.S.Cptr.Inf.Sci. (Elizabeth City State University) M.S.

Business Administration

Keith D. Beeson, Pickerington B.S. (University of Toledo) Business Administration

Michael Belcher, Westerville

B.S. (Davidson College) Business Administration

Christen Ann Biddlestone, Westerville

Rusiness Administration

Ann Marie Boh. Powell B.S.Aero, Astro, Eng. Business Administration

Matthew Germain Boll, Dayton B.A. (Miami University) Business Administration

Danielle Marie Borck, Columbus B.Bus.Adm. (University of Toledo) Rusiness Administration

Joseph Russell Boreman, Columbus B.S. (Denison University) M.S. (University of Georgia) Business Administration

Emery Linden Boyle-Scott, Streetsboro B.A. (Youngstown State University) M.A. (Cardinal Stritch University) Business Administration

Joshua Christopher Bracher, Columbus B.S. (United States Military Academy) Business Administration

Jermaine Brown, Reynoldsburg B.S. (New Jersey City University) ΜΔ

Rusiness Administration

Adam T. Brush, Columbus B.S. (Miami University) Business Administration

David Bumb, Westerville B.S. (Heidelberg University) Rusiness Administration

Kyle Caldwell, Hilliard R S Rus Adm Business Administration

Karthik Chandrasekaran, Chennai, India B.Tech. (Anna University) M.S. (University of South Florida) Business Administration

Peng Chen, Cincinnati B.Engr. (Tongji University) Laurea (University of Bologna) Business Administration

Aneesh Chhabra, Delhi, India B.Tech. (Maulana Azad National Institute of Technology) Business Administration

Neil Chitwood, Ontario B.S. (United States Military Academy) Business Administration

Molly Gardner Clarke, Columbus B.A. (Lafayette College) Business Administration

Willie Kenaan Cook, Akron B.S. (University of Akron) Business Administration

Tai Andre Cornute, Columbus R S Soc Work Business Administration

Michelle Marie Corrado, Boca Raton, FL B.S. (University of Florida) Business Administration

Bennett Richard Cross, Columbus B.S.Bus.Adm.

Business Administration

Jonathan Matthew Cyr, Hilliard R S Rus Adm Business Administration

Michael Edgar D'Netto. Cincinnati

B.S. (University of Notre Dame) **Business Administration** 

Grant Edwin Daniels. Columbus B.A. (Ohio Wesleyan University) Rusiness Administration

Sayan Datta, Kolkata, India B.Tech. (Maulana Abul Kalam Azad University of Technology) Business Administration

Kristin Renee Day, Powell B.S. (Purdue University) Business Administration

Zachary Robert Dean, Columbus

Business Administration

Amogh Vithal Deshpande, Pune, India B.Engr. (University of Pune) Rusiness Administration

Zachary David Deutch, Columbus B.A. (Washington University in Saint Louis) Business Administration

Mark William DeWine, Rocky River B.A. (College of Wooster) Business Administration

Jude Diegue, Columbus B.S. (Central State University) Rusiness Administration

Erin Marie Dunn, Denver, CO B.A., B.S.Bus.Adm. Rusiness Administration

Jeffrey Lee Dunn, Montgomery Business Administration

Roshonda Lynn Elder, Reynoldsburg

B.S.Humn.Ecol. Business Administration Jonathan R. Elsner. Columbus B.S. (Miami University) M.S. (Central Michigan University) Business Administration

Brad Etheridge, Columbus B.S.Weld.Eng. Business Administration

Mark Fanous, Columbus B.S.Ind.Sys.Eng. Business Administration

Daniel Robert Fearer, Hilliard B.Bus.Adm. (Kent State University) Business Administration

Zachary Todd Feit, Columbus B.S. (University of Central Florida) Business Administration

Brittany Fennell, Columbus Business Administration

Sephan Frazier, Columbus B.S.Educ. (Wright State University) Business Administration

Seth Frey, Columbus B.Bus.Adm. (Slippery Rock University) Business Administration

Jason Rest Fullen Westerville B.Music (New York University) M.P.A., M.Soc.Work Business Administration

Yudha Setia Racana Ganesha Putra, South Tangerang, Indonesia B.Engr. (Bandung Institute of Technology) Business Administration

Anthony J. Ganim, Hilliard B.S., M.S. (University of Evansville) Business Administration

Brian Geiser, Canton B.Bus.Adm. (Kent State University) Business Administration

Sankha Ghosh, Kolkata, India B.S.Honors, M.S. (University of Calcutta)

Business Administration

Blake Randall Gleaves, Columbus B.S. (Georgia Institute of Technology) Business Administration

Soniya Gokhale, Lancaster

Business Administration

Murphy Jordan Goodman, Columbus B.S.Bus.Adm. (University of Pittsburgh) Business Administration

Walton Delano Gouldin, Columbus B.S. (United States Military Academy) Business Administration

Robert Harold Griffith, Columbus B.S. (University of South Florida) Rusiness Administration

Elizabeth Groeber, Ashland B.S. (Ohio Dominican University) Ph.D.

Business Administration

Wendy Stewart Grugle, Hudson B.A. (Miami University) M.Laws, J.D. (University of Denver) Business Administration

Ryan Michael Guntle, Lexington, KY B.Bus.Adm. (University of Toledo) Rusiness Administration

Hersh Gupta, Columbus B.Engr. (Birla Institute of Technology and Science) Business Administration

Vivek Ramesh Gursahaney, Bexley B.A. (Miami University) Rusiness Administration

Christopher Hanners, Sunbury B.S.Humn.Ecol. Rusiness Administration

Mireille Lenore Hartley, Columbus B.A. (University of New Hampshire) Business Administration

Stefanie Ann Hatfield, Columbus B.A. (Wittenberg University) M.Educ. (American College of Education) Rusiness Administration

Yue He, Shanghai, China B.S.Mat.Sci.Eng. (Fudan University) **Business Administration** 

Lindsay Headings, Sidney B.A. (Anderson University) Business Administration

Casey Marie Henceroth, Columbus B.S.Humn.Ecol. M.S. (University of Kentucky) Business Administration

Ike Herman, Hudson B.A. (Bowling Green State University) **Business Administration** 

Francis Heschmeyer, Girard B.F.A. (University of North Carolina School of the Arts) Rusiness Administration

Ronald Christopher Hill. Columbus B.S. (Arizona State University) **Business Administration** 

Dawn Horne, Cambridge, MA B.A. (Georgetown University) M.F.A. (University of South Carolina) M.A. (Johns Hopkins University) Business Administration

Jordan Andrew Houser Chillicothe B.A. (Capital University) Business Administration

Deborah Ann Howard, Dayton B.Educ. (Antioch University - Midwest) Business Administration

Joseph Scott Howell, Aurora B.A. (University of Oklahoma) Rusiness Administration

Lauren Marie Hrosch, Columbus B.S.Bus.Adm. Rusiness Administration

Wen Shan Hsiao, Nantou County, Taiwan B.Bus.Adm. (National Chung Cheng University) Certificat (International Trade Institute) Business Administration

Hanh Thi Bich Huynh, Ho Chi Minh, Vietnam B.A. (Foreign Trade University) Business Administration

Andrew David Hwa, Dublin B.S. (Lafayette College) Business Administration

George Iliev, Columbus B.S.Bus.Adm. Business Administration

Vivek Subramanian Iyer, Mumbai, India B.Comr.Three. Master's (University of Mumbai) **Business Administration** 

Emily Ellen Jacobson, Massillon B.A., B.Educ. (University of Toledo) Business Administration

Ashley Jean Jacque Jeromesville B.S.Aero.Astro.Eng. Business Administration

Keiuana Jovette Jefferson. Wadsworth B.S., M.S. (Miss Valley State Univ) Business Administration

Robert Jennings, Union City, GA B.A. (Morehouse College) M.A., Specist, Edu., Doctor, Ed. (Atlanta University) Rusiness Administration

Candace M. Johnson, Akron B.S.Bus.Adm. (University of Akron) Rusiness Administration

Sharon Sobol Jordan, Chagrin Falls B.S. (Indiana University) ΙD

Rusiness Administration

Mashhood Ajaz Kakroo, Dublin B.Med.B.Surgry. (University of Jammu) Business Administration

Stephen Michael Kanzlemar, Columbus

Rusiness Administration

Charuni Reddappagari Karavati, Dublin B.Tech. (Sri Venkateswara University) Business Administration

**Daniel Michael Kaufman**, Columbus B.A. (Suny College) *Rusiness Administration* 

**Dustin Paul Keith**, Delaware B.A. (Michigan State University) J.D.

Business Administration

**Eric Kempf**, Columbus B.S. (Indiana University Purdue University) Business Administration

Allison Dora Kender, Columbus
B.S. (Columbia School of Engineering and Applied Science)
Business Administration

**Averie Mae Kenney**, Columbus B.S. (Miami University) *Business Administration* 

Michael Adam Kercsmar, Galena B.S. Met.Eng.

Business Administration

B.S. (Miami University)

Ji Hyun Kim, Seoul, Korea B.A. (Sungkyunkwan University) M.B.A. (Sogang University) Business Administration

Justin King, Hilliard B.Bus.Adm. (Eastern Michigan University) Business Administration

Business Administration

Sarah Marie King, Columbus

Business Administration

Terence Joseph Klein, Jr., Independence

B.S. (Case Western Reserve University)
Business Administration

**Barry Daniel Knight**, Columbus B.A. (Brigham Young University) *Business Administration* 

**Stephen C. Koesters**, Dublin B.S. (University of Dayton) M.D. *Business Administration* 

Sashi Kiran Kommineni, New Albany B.Engr. (Osmania University) M.S. (University of Cincinnati) Business Administration

Business Administration

**Tibin Koshy**, Avon B.Engr. (Karunya University) Master's (Pennsylvania State University) Business Administration

Jason Matthew Kotzur, Powell B.Bus.Adm. (University of Texas) Business Administration

**Lucas John Kozlowski**, Upper Arlington B.S. (Miami University) Business Administration

Valerie Ann Kunze, Columbus B.S., J.D. Business Administration

**Edward J. Kurowicki**, Flemington, NJ B.S., M.B.A. (Fairleigh Dcknsn U Madisn) *Business Administration* 

**Daniel Eugene Lamone**, Columbus B.S.Chem.Eng., M.S. *Business Administration* 

Anthony Carl Lazzeri, Columbus B.Music (Youngstown State University) M.Music (New England Conservatory of Music)

Diploma (University of Cincinnati) Business Administration

**Daekun Lee**, Gyeonggi-do, Korea B.Bus.Adm. (Seoul National University) Business Administration

Junggeun Lee, Gwacheon-si, Korea B.Bus.Adm., Bachelor's (Sungkyunkwan University) Business Administration

Charles Lewis Levy, Marietta B.A. (Johns Hopkins University) M.D. (Drexel University) Business Administration

**Alexander Libin**, Bexley B.S.Humn.Ecol. *Business Administration* 

**Matthew Luke**, Lexington, KY B.S. (United States Naval Academy) Business Administration

Brent A. Macolley, Columbus B.S. (Pennsylvania State University) B.S.Env.Nat.Res. Business Administration

**Tyler Maddox**, Columbus B.S., M.B.A. (Ohio Dominican University) *Business Administration* 

**Michael Patrick Mahoney**, Columbus B.S.Bus.Adm.

Business Administration

Ivan Deltchev Marinov, Reminderville B.S.Bus.Adm., M.Acct. Business Administration

Shannon Marie Marshall, Hilliard Mstr.H.R.M.

Business Administration

**Thomas Tyler Mason**, Columbus B.S.Alld.Hlth.Prof. *Business Administration* 

**Akshay Mathur**, Delhi, India B.Tech. (Uttar Pradesh Technical University) Business Administration Michael Maxwell, Columbus BS.Con.Sys.Mn.

Business Administration

**Dionne Thelear McDole**, Dayton M.S. (Central Michigan University) *Business Administration* 

Aerica Charese Meacham, Bexley B.S.Educ. (Kent State University)

Jairus L. Meacham, Fairlawn Business Administration

Nirmiti Rajesh Mehta, Pune, India Certificat (Ecole Hoteliere Lavasa) B.A. (Indira Gandhi National Open University) Business Administration

**Alex Grant Merick**, Columbus B.S.Bus.Adm. *Business Administration* 

Anna C. Merkle, Columbus B.A. (Bryn Mawr College) M.S., Ph.D. (University of Michigan) Business Administration

**Shawn Leslie Merrill**, Columbus B.S. (University of Utah) *Business Administration* 

**Kyle Landon Miller**, Dublin B.S.Educ. (Otterbein University) M.A.

Business Administration

Lisa Marie Miller, Columbus

B.A., B.A.Jour. Master's (University of Missouri) Business Administration

**Yi Mon**, Yangon, Myanmar B.S.Bus.Adm. (Berea College) Business Administration

**Justin B. Moss**, Columbus B.A. (Ithaca College) *Business Administration* 

**Business Administration** 

Paul Andrew Nierzwicki, Columbus B.A. (Kenyon College)

**Michael Jeffrey Oehler**, Columbus B.S. (University of North Carolina) *Business Administration* 

Alan Thomas Oommen, Chennai, India B.Engr. (Anna University) Business Administration

**Tasuku Osumi**, Saitama, Japan B.Engr., M.S. (Waseda University) *Business Administration* 

**Manoj Parmar**, Cleveland B.Engr. (University of Pune) Business Administration Rafael Alejandro Pereyra Duarte,

Distrito Nacional, Dominican Republic Licenciado, Postgrad Dipl. (Pontificia Universidad Catolica Madre y Maestra) M.S. (University of Warwick) Business Administration

**Vakeeshan Periyathamby**, Copley B.S.Bus.Adm. (University of Akron) *Business Administration* 

Benjamin Kyle Person, Upper Arlington

**Stephen Phillips**, Columbus B.S.Bus.Adm. *Business Administration* 

Rusiness Administration

Timberly Ross Pierce, Columbus B.S.Bus.Adm.

B.S.Bus.Adm.
Business Administration

William Kenneth Ragland II, Reynoldsburg B.A.

Business Administration

**Marisa Katherine Ratajczak**, Columbus B.S.Eng.Physics *Business Administration* 

John Eugene Reilly III, Columbus B.S. (California Polytechnic State University) Business Administration

John B. Reinhardt III, Columbus B.A. (DePaul University) Business Administration

Zachary Allan Reuscher, Heath B.S.Bus.Adm. Business Administration

**Geoffrey Dean Rinehart**, Galena B.S. (Bowling Green State University) Business Administration

**Andrew Charles Robbins**, Liberty Township B.A. (Miami University)

Business Administration

Anthony Mitchell Rogers, Dublin

B.S.Bus.Adm. Business Administration

**Timothy Joseph Ryan**, Columbus B.S. (Miami University) J.D. *Business Administration* 

**Sweta Indra Sahu**, Columbus B.Engr. (University of Pune) *Business Administration* 

**Joe Saba Salloum**, Strongsville B.A. (Case Western Reserve University) Business Administration

**Ruchita Saluja**, Rourkela, India B.Tech. (Biju Patnaik University of Technology) Business Administration Neal Edward-Louis Schafer II

Upper Arlington B.S.Bus.Adm. (University of Dayton) Business Administration

Lisa Marie Selfinger, New Albany B.Bus.Adm., B.A. (Bowling Green State University)

Business Administration

Hoeun Seng, Columbus

R S Rus Adm

Business Administration

Heather L. Sever, Columbus B.S. (Defiance College)

Business Administration

Anoli Shah, Copley

B.S. (Youngstown State University) Business Administration

Nirai Shekhar, Powell B.S.Cptr.Sci.Eng. (York University)

Business Administration

Neal Sheth, Mansfield B.S. (University of Akron)

Business Administration

Muhammad Dahir Shire, Westerville

Business Administration

Douglas Lyn Shoemaker, Westerville

B.S.Educ., J.D.

Business Administration

Scott Christopher Shugart, Columbus

B.S. (California State University) Business Administration

Sean Patrick Simon, Columbus

B.S. (Miami University) Business Administration

Rajani Singh, Bokaro Steel City, India B.Engr. (Birla. Inst. of Tech. Mesra)

Business Administration

Holley Smith, Lewis Center B.S. (Franklin University)

Rusiness Administration

Trent Charles Smith, Columbus

B.A. (Georgetown University)

Business Administration

Paul Joseph Sobecki, Columbus B.S.Bus.Adm.

Business Administration

Matthew Hahn Souder, Gahanna

Business Administration

B.S. (Miami University)

Christine Ann Steele Gahanna B.S. (Purdue University) M.S., Ph.D. (Cornell University) Business Administration

Mitchell H. Straub, Powell

B.Bus.Adm. (University of New Mexico) Business Administration

JansiRani David Straveler, Columbus R S Nurs

Business Administration

Corey Marion Stroud, Columbus

B.A. (Kentucky State University)

Rusiness Administration

Kang Hoon Suh, Seoul, Korea

B.A. (Seoul National University) Business Administration

Timothy Michael Swartz, Westerville

B.A. (Ashland University) Business Administration

Naofumi Takahashi, Kasuya-gun, Japan Bachelor's (Tokyo University of Agriculture

& Technology)

M.S. (Kyushu University)

Business Administration

Kyle Anthony Takavitz, Columbus B.Bus.Adm. (University of Cincinnati)

Business Administration

Phillip Kolsun Tassi, Columbus

B.S., B.S.Ind.Sys.Eng.

Business Administration

Gabriella Anise Terranova, Copley Bachelor's (College of William and Mary)

**Business Administration** 

Rochan Rajeev Tipre, Mumbai, India

B.Engr. (University of Mumbai)

Rusiness Administration

Kyle Blaine Toombs, Columbus

B.S. (Purdue University) Business Administration

Kevin Germain Tooson, Columbus B.S. (Eastern Michigan University)

M.Educ. (Ashland University)

Business Administration

Louis Sabiiti Tumukunde. Columbus

B.S. (University of Dar es Salaam)

Business Administration

Annemarie Michelle Turpin. Dublin B.A. (Indiana University Purdue University

Indianapolis)

Business Administration

Valerie Nneka Udeozor, Columbus B.S. (University of Pittsburgh)

Business Administration Valerie Van Hulle, Westlake

B.A. (University of Michigan)

Business Administration

Lucas Allen VanEtten, Columbus B.S. (Michigan State University) D PhysTher (University of Florida) Rusings Administration

Ancey Vinovi, Lewis Center

B.S.Nurs, (Indira Gandhi National Open University)

M.S. (Kent State University)

Business Administration

Emilia Kovacevic Voge-Tipping, Dublin B.S.Honors (Allegheny College)

Business Administration

Keona Antoinette Walker, Youngstown

M.A.Teach. (Marian University) Business Administration

Lisa Marie Walsh, Cleveland B.A. (Miami University)

Business Administration

Elsa Marie Warren, Baltimore

Rusiness Administration

Sean West, Columbus

B.S. (Indiana University Purdue University

Indianapolis) Business Administration

Julie Marie Westerbeck. Canton B.S. (Arizona State University)

Business Administration

Julie Michelle Wildermuth, Westerville

B.A., B.S.Bus.Adm.

Rusiness Administration

David Ross Williams, Columbus

B.S. (Miami University)

Business Administration

Tiffani Sharmaine Wills, West Chester

B.A. (Wright State University) M.Educ. (Xavier University)

Rusiness Administration

James Eugene Wilson III, Grove Citv B.S., M.B.A. (Franklin University)

Business Administration

Daniel Bruce Winters, Grandview Heights B.A. (Bowling Green State University)

Business Administration

Jacob Randall Worley. Columbus

B.S.Educ.

**Business Administration** 

Yugiao Xue, Wuxi, China

B.S. (Nanjing Audit University)

Business Administration

Akin Yelken, Hamburg, Germany

B.S.Bus.Adm. (American University)

Business Administration

Timothy Zastudil, Dublin B.A., B.S.Elec.Cptr.Eng. Business Administration

Ping Zhou, Shanghai, China

Bachelor's (Shanghai University of Finance and Economics)

Business Administration

Yiran Zhou, Shanghai, China B.Engr. (Tongji University)

Business Administration

Courtney Lynn Ziegler, Canton B.S.Agr. Business Administration

Master of **Business Logistics Engineering** 

Yu Huang, Columbus

Business Loaistics Engineering

Joseph Caldwell Stanford, Columbus

B.A. (Mercer University)

Business Logistics Engineering

Haipeng Wang, Changzhou, China

B.S. (Purdue University) Business Logistics Engineering

Master of City and Regional Planning

Noor Anani, Columbus City and Regional Planning

Bachelor's (American University of Sharjah)

Nicholas Anthony Badman, Beavercreek

B.A. (Bowling Green State University)

City and Regional Planning

Terrence Nicholas Barr, Hilliard

B.S.C.R.P. City and Regional Planning

Lauren Elizabeth Bell, Hilliard

B.S. (High Point University) City and Regional Planning

Rebecca Lucille Coutinho. Westerville B.A. (Bowling Green State University)

City and Regional Planning

Laney Shea Ellzey, Van Wert B.S.Soc.Work

City and Regional Planning

Hayley Elizabeth Feightner, Heath

B.A. (University of Dayton) City and Regional Planning

Sara Jo Ford. Columbus

Bachelor's (Youngstown State University) City and Regional Planning

Jacob Evan Gill, Columbus

B.A. (University of Tennessee)

City and Regional Planning

**Grant Steven Dale Huling**, Columbus B.A. (Oberlin College)

City and Regional Planning

Ali Isse, Columbus Diploma (Multimedia University of Kenya) B.A. (University of Texas) City and Regional Planning

**Allison Shannon Kelly**, Columbus B.S. (University of Oregon) *City and Regional Planning* 

**Shawn Alan Klein**, Columbus B.A. (Xavier University)

City and Regional Planning

Sayee Abhijit Mudholkar, Thane West, India Architect (University of Mumbai) City and Regional Planning

**Andrew James Neutzling**, Columbus Bachelor's (University of Cincinnati) City and Regional Planning

**Michael Brandon Outrich**, Columbus B.S. (Ohio University)

City and Regional Planning

Eric K. Roberts, Willits, CA

B.A. (Wittenberg University) City and Regional Planning

**Sierra Lin Saumenig**, Columbus B.A. (Georgia State University) *City and Regional Planning* 

**Sally Laura Sharrow**, Cincinnati B.S. (Tufts University) *City and Regional Planning* 

Steven Franklin Smedley, Beachwood B.S. (Ohio University)

City and Regional Planning

**Alexander Jordan Strawser**, Strongsville B.A. (Cleveland State University) City and Regional Planning

**Orion Canaan Thomas**, Columbus B.A. (Austin College)

City and Regional Planning

Victoria VanHouten, Canal Winchester B.A.

City and Regional Planning

City and Regional Planning

Ruchi Agarwal Vasudev, Bangalore, India B.Engr. (Visvesvaraya Technological University) City and Regional Planning

Ryan Vollrath, Columbus B.A. (Ohio University)

Christopher Allen Will, Plain City Bachelor's (University of Cincinnati) City and Regional Planning

Christy Marie Wiseman, Copley B.S. (Ohio University)
City and Regional Planning

#### Master of Education

**Lauren Alberti**, Toledo B.S.Educ. *Education* 

Vinusha S. Autar, Columbus Bachelor's (City College of the City University of New York) Education

Maria Anne Barber, Medina

B.S.

Education

Brittany Angel Barker, Westerville

B.S.Educ. Education

**Carlee Deon Beatty**, Columbus B.A. *Education* 

**Sierra Marie Blase**, Sunbury B.S.Educ. *Education* 

Nathanael Braun, Columbus B.S. (Cedarville University) M.S. Education

Michael Glen Campbell, Akron B.A., M.A. Education

Kerry Elizabeth Carter, Beavercreek B.S.Educ.

Education

Laura Claire Chapin, Galena

Education

R S Educ

**Alexa Nicole Chapman**, Delaware B.A. *Education* 

**Kieron Joseph Cindric**, Findlay B.A. (Columbia University) *Education* 

Christine Marie Cornella, Wantagh, NY B.S.Educ.

**Ivan Crnic, Jr.**, Columbus B.A. (Baldwin Wallace University) *Education* 

Kaleb John Curry, Columbus B.S.Agr.

**Education** 

Anthony Robert Davis, Wintersville B.A.
Education

**Katherine Gail Demarest**, Cincinnati B.S. *Education* 

Katie Nicole Dillard, Dublin B.S.Educ.

Education

**Jessica Gertrude Duncan**, Loveland B.A. *Education* 

**William Spencer Edwards**, Westerville B.A.

Education

**Fducation** 

**Kourtney Elizabeth Ellis**, Brecksville B.S.Educ. *Education* 

Lauren Hope Esselburn, Columbus

B.S.Educ. Education

**Laken MacKenzie Ferguson**, Columbus B.S.Educ. *Education* 

**Taylor Nicole Ferrell**, Malvern B.A.Jour.

Allie Catherine Fitzgerald, Norwalk B.S.Educ. Education

**Reed Hamilton Franklin**, Johnstown B.A. (Kenyon College)

Education

**Kelsey Marie Fresch**, Sandusky B.S.Educ. *Education* 

**Nicole Renee Glanzer**, Columbus B.S.Educ.

Samantha Rae Glasser, Salem

B.A. Education

**Nicholas William Glynn**, Gahanna B.A.

Education

David Joseph Groh, Lebanon B.A.

Education

**Jeanna Marie Groshong**, Columbus B.A. *Education* 

Jennifer Sabine Gross, Columbus

B.A. Education

**Lorraine Keiko Hack**, Olympia, WA B.S.Educ.

Education

Heather Marie Hobbs, Grove City

B.A. Education

**Blair Elizabeth Hottois**, Southlake, TX B.S.Educ. *Education* 

Yue Hui, Shanghai, China B.A. (Shanghai Ocean University) M.A. Education

**Amber Christine Hutchison**, Groveport B.S. *Education* 

Maysa A. Ihmud, Dublin B.A. (Governors State University)

**Christine Diana Irvine**, New Albany B.A. (Kent State University) *Education* 

**Sarah Ann Isler**, Copley B.A. *Education* 

**Adam Christopher Jarvis**, Galion B.A. *Education* 

**Kate Lynette Kaldor**, Toronto B.S. *Education* 

**Taylor Marie Keserich**, Parma Heights B.S.Educ. *Education* 

Jiyawn Melissa Kim, Dublin B.S.Humn.Ecol.

Education

Cameron Chandler King, Port Clinton R Δ

Education

Amanda Michelle Kotomin, Johnstown

Amanda Michelle Kotomin, Johnstown Bachelor's (Mount Vernon Nazarene University) Education

**Andrea Lynn Kreuter**, Columbus B.S. *Education* 

**Alexandra Quinn Davis Lendon**, Delaware B.A. *Education* 

Catherine Elizabeth Lewis, Columbus B.A.

Wesley James Lewis, Barnesville B.S.Humn.Ecol.

**Education** 

Education

**Erin Dale Linderman**, Dansville, MI B.S. (Michigan State University)

Education

Stephen Patrick Luther, Columbus

B.S.Educ.

Education

Rebecca Helene Metzger, Westerville B.F.A.

Education

Blair Elizabeth Micheli, Dublin

R S Educ Education

Meena Racine Mihalski, Newburgh Heights R S Educ

Education

Jaime' Marie Morgan, Canal Winchester

B.A. Education

Timothy James Morris, North Canton B.A. (University of Akron)

Education

John Murphy, Columbia Station

RΔ **Fducation** 

Ashley Marie Nolan, Dayton

B.S.Educ. **Fducation** 

Connor Eric Perry, Sylvania

RΔ

Education

Shannon Marie Perry, Worthington

RΔ

Education

Kristen Eileen Pierce. Canal Winchester RSHDES

**Fducation** 

Doug S. Roberts, Columbus

B.A.

Education

Eric Britton Robinson, La Rue

RΔ Education

Erin Rachel Roby, Johnstown

R S Educ

Education

Tiana Jacqueline Rogers, Gahanna

B.A.

**Education** 

Anitya Morgan Root, Grandview Heights B.A. (Pomona College)

M.S. (North Carolina State University)

**Fducation** 

Kathryn Anne Rosenberg, Cincinnati

**Fducation** 

Lauren A. Rossi, Xenia

B.S.

Education

Trevor Edward Rowles, North Bloomfield R S Educ

Education

Gabriela Isabel Ruiz Nieto, St. George, UT B.A. (Brigham Young University)

**Education** 

Trevor Hall Sams. Westerville

B.S. (Otterbein University) Education .

Ayanna Michele Saunders, Hilliard

B.S.Educ. Education

Emily Jane Savidge, Marysville

B.S.Educ.

Education

Paul Edmund Schiff, Columbus

B.A. (Flagler College) Education

Katherine Lvnn Schroeder. Port Clinton

R S Educ

Education

Rachel Adeline Seiffert, Blacklick

B.S. (Miami University) **Education** 

Bradley Christian Severt, Wapakoneta

ВΑ

Education

Forest Dantzler Shoher Ashville

B.Music (Kenyon College) Education

Mary E. Snyder, Columbus

B.A. Education

Steven Christopher Spirk, Brockway, PA B.S. (Pennsylvania State University)

Education .

Anna Viktoria Rose Strench, New Albany

B.A.

**Fducation** 

Emily Violet Trapani, Columbus

ВΔ

Education

William Henry Van Why, Lakewood

**Education** 

Brittany Jeanette Wallace, Columbus

B.S. (Kent State University)

Terrell Joquan Ware, Tacoma, WA

B.A. (Washington State University) Education

Justin Thomas Wiley, Barberton

B.S.Educ.

Education

Master of **Environment and Natural Resources** 

Margaret Irene Hamer, Brownsburg, IN B.A. (University of Indianapolis)

Environment and Natural Resources

Xinjue Ke, Xiamen, China

B.A.Honors (Carleton University) Environment and Natural Resources

Colleen Marie Sharkey, Columbus

B.S.Soc.Work

Environment and Natural Resources

Master of Fine Arts

Heather Ballard, Columbus B.F.A. (Wright State University)

Art

Angelica Lee Bell, Columbus

B.F.A. (San Diego State University) Dance

Emily Louise Bell, Hilliard B.S. (High Point University)

Desian

Linnea Jean Bond, Columbus

B.A. (Washington and Lee University)

David Bukszpan, Columbus B.A. (Kenyon College)

English

Meghan Callahan, Boulder, CO

B.A. (Denison University) Fnalish

Eun Young Cho, Seoul, Korea

B.F.A. (University of Nebraska)

Babette Electra Elisabeth Cieskowski,

Columbus

B.A. (Florida Atlantic University)

English

Margaret Rachel Cipriano, Downers Grove, IL

B.A. (Bradley University)

Enalish

Sergio Axel Cuevas Santamaria, Mexico City, Mexico Licenciado (Universidad Autonoma del

Estado de Morelos)

Blake Anthony Edwards, Columbus

B.A. (Yale University)

Theatre

Max Fletcher, Fordingbridge, United Kingdom

B.A. (University of the Arts London)

Adam Lee Fromme, Columbus

B.S.Design Design

Jeffrey B. Hazelden, Columbus B.S. (Kent State University)

Abel Hernandez, Columbus B.F.A. (Rhode Island School of Design)

Kien Tran Hoang, Hanoi, Vietnam B.A. (University of Texas) Design

Ece Karaca, Columbus B.F.A. (Bilkent University)

Design

Design

Morteza Khakshoor, Columbus B.F.A. (University of New Haven)

Joseph Robert Kopyt, Columbus

B.A. (Vassar College) Theatre

Benito Mario Lara, Lytle, TX

B.F.A. (Texas State University) Theatre

Mallory Patricia Laurel, Columbus

B.A. (University of Notre Dame) English

Jessica Michal Lieberman, Potomac, MD

B.A. (Kenyon College) Enalish

Alicia Elizabeth Little, Columbus

B.F.A. (Art Academy of Cincinnati) Art

Catelyn Jean Mailloux, Xenia B.F.A. (University of Wisconsin - Eau Claire)

Zachary Allen Meyer, Aurora, IL B.A. (Western Illinois University)

Justin Aaron Miller, Hinton, VA B.F.A. (Shenandoah University)

Amanda Rachel Mitchell, Braintree, MA B.A. (Salem State University)

Joshua Bruce Morrow, Columbus

B.S.Design Design

Theatre

Theatre

Theatre

Sara Lorraine Perry, Carmichael, CA B.A. (California State University)

Theatre

Jessica Ann Rafalko, Mountain Top, PA B.A. (King's College)

English

Elizabeth Elaine Rose-Cohen, Columbus B.A. (Mount Holyoke College) M.S. (University of Southern Maine) Enalish

Ambre Marie Shoneff, Stockton, CA B.A., M.A. (Biola University) Theatre

#### Suzannah Alice Showler.

Vancouver, Canada B.A. (Dalhousie University) M.A. (University of Toronto) English

Alexandra Diana Stilianos, Columbus Dance

Allison Elizabeth Talbot, East Machias, ME B.A. (Saint Lawrence University) Enalish

Laura Ashlee Daniels Taylor, Greer, SC B.F.A. (Columbia College)

Kahla Tisdale. Columbus B.A. (Alabama State University) Theatre

Rachel Grace Toliver, Philadelphia, PA M.A. (City University of New York, Brooklyn College) Enalish

Hemalatha Venkataraman, Chennai, India Bachelor's (Anna University) Design

Zachary Thomas Winegardner, Lancaster B.S.Comm. (Ohio University) Design

### Master of Global Engineering Leadership

Daniel James Nielsen, Troy B.S.Elec.Eng. (Central Michigan University) Global Engineering Leadership

### Master of Health Administration

Thomas Baldauf, Columbus B.S. (University of Cincinnati) Health Services Management and Policy

McKenna Brynn Bracy, Columbus B.S. (Ohio Northern University) Health Services Management and Policy

Brady Corless, Columbus

B.S. (University of Dayton) Health Services Management and Policy

Jonathan R. Costin, Columbus B.A. (Miami University) Health Services Management and Policy Brooke Autumn DeBauch, Columbus B.S. (University of Wisconsin) Health Services Management and Policy

Michael A. Ellison, Fairlawn B.S. (Kent State University) Health Services Management and Policy

Corey Frederick Ferguson, Gahanna B.S. (Miami University) Health Services Management and Policy

Adam Corev French, Delaware R S Ruc Adm Health Services Management and Policy

Margaret Igel, Columbus B.S. (Miami University) Health Services Management and Policy

Audry Marie Klossner, Columbus B.A. (Emory University)

Health Services Management and Policy Alaina Michelle Lotozo, Columbus B S Humn Fcol

Health Services Management and Policy Stefany Justine Mayhew, Columbus

B.S. (Indiana University) Health Services Management and Policy

Jessica Miller, Middletown B.S.Humn.Ecol. Health Services Management and Policy

Olivia Emily Moskaluk, Copley B.S.Pub.Hlth

Health Services Management and Policy

Somtochukwu Richard Odenigbo, Dayton B.S. (University of Cincinnati) Health Services Management and Policy

Esther A. Olsen, Columbus B.A. (Brigham Young University) Health Services Management and Policy

Amanda Marie Stopek, Mentor B.S.Bus.Adm.

Health Services Management and Policy

Xhonela Suli, Columbus B.S.Pub.Hlth.

Health Services Management and Policy

Wilkister Moraa Tangazi, Canal Winchester B.A., M.S. (University of Iowa) Health Services Management and Policy

Grace Ellen Van Amerongen, Cincinnati

Health Services Management and Policy

Gennel Ashley Vieira, Columbus B.A. (City University of New York, Hunter College) Health Services Management and Policy Master of **Human Resource Management** 

Neha Agarwal, Pune, India B.Engr., B.Educ. (University of Pune) Human Resource Management

Nathan Bradish, Columbus

Human Resource Management

Vinessa Elicea Burnett, Columbus B.S.Comm. (University of Miami) Human Resource Management

Jennifer Lynn Burns, Midland, MI

Human Resource Management

Ruiyi Chen, Lewis Center B.S.Bus.Adm. Human Resource Management

Katherine Maria Clausen, Celina B.S.Comm. (Ohio University) Human Resource Management

Megan Danielle Condon, Solon B.S.Bus.Adm. Human Resource Management

Christie Nikol Da Costa, Columbus

B.S.Bus.Adm. Human Resource Management

Chelsea Elizabeth Dillon, Dublin B.A. (Ohio University) Human Resource Management

Xiaoxiao Dong, Guangzhou, China Bachelor's (South China Normal University) Human Resource Management

William Franklin Dunn IV, Wilson, NC B.A. (Campbell University) M.A. (University of Connecticut) Human Resource Management

Ariel Monique Estwick, New Orleans, LA B.A. (Southern University at New Orleans) Human Resource Management

Angela Marie Gibson, Canal Winchester B.S.Educ.

Human Resource Management

Emma Catherine Goold, Cincinnati

Human Resource Management

Darnell Christopher Griffin, Galloway B.S. (Morris College) Human Resource Management

Emma Caroline Hunko-Haynack, Copley

Human Resource Management

Scott Allyn Huston, Worthington B S Educ

Human Resource Management

Youran Ji, Urumqi, China B.A. (Beijing University of Chemical Technology) Human Resource Management

Jong Hoon Ko, Gyeonggi, Korea B.A., M.Educ. (Pusan National University) Human Resource Management

Ashley Brooke Kretchek, Wilmington B.S.Bus.Adm.

Human Resource Management

Taylor Alyssa Krupczyk, Columbus Human Resource Management

Andrew Chase Lakhani, Buford, GA

B.S.Elec.Eng. (Georgia Southern University) Human Resource Management

Felicia Joy Lilien, Columbus B.S. (Florida State University) Human Resource Management

Elizabeth Christine-May Lisska, Bexley

Human Resource Management

Jennifer Leigh Marchese, Columbus RΑ

Human Resource Management

Kelly Jo Mayer, Alliance B.Bus.Adm. (Ohio University) Human Resource Management

Cydney L. Millhisler, Dublin B.A. (Michigan State University) Human Resource Management

Eric Evan Moore, Bellefontaine

Human Resource Management

Kevin Morris. Cincinnati

Human Resource Management

Jenna Nicole Moulton, Marysville

Human Resource Management

Sarah Nicole Nicklas, Parma RS Human Resource Management

Kelsey Elizabeth Nussbaum, Hilliard B.S.Bus.Adm.

Human Resource Management

Karen Natalia Osorio-Sanders, Columbus B.S.Bus.Adm. (Rider University) Human Resource Management

Nia Patterson, Columbus B.A. (Oakwood College) Human Resource Management

Madhumita Shailesh Phatak, Pune, India B.A. (Symbiosis International University) Human Resource Management

Marcy Lynn Plesha, Westerville B.S. (Bowling Green State University) M.Educ. (Slippery Rock University) Human Resource Management

**Hilary Pohlman**, Yorkshire B.S. (Wright State University) *Human Resource Management* 

**Anthony David Reed**, Columbus Bachelor's (University of Missouri) *Human Resource Management* 

**Christopher Lee Schoo**, Columbus Bachelor's (Iowa State University) *Human Resource Management* 

**Divya Selvaraj**, Lewis Center B.Engr. (Visveswaraiah Technological University) Human Resource Management

**Matthew Lawrence Shaffer**, Columbus B.A. (University of Washington)

Human Resource Management

**Katelynd Alise Shoff**, Canal Winchester B.A. (Capital University) *Human Resource Management* 

Michael Gregory Sneddon, Dublin

Human Resource Management

Allison Michelle Stewart, Houston, TX B.Bus.Adm. (Texas State University) Human Resource Management

**Sifei Tang**, Beijing, China B.A. (Sichuan University) *Human Resource Management* 

Irina Toidze, Columbus B.S. (Bradley University) Human Resource Management

**Travis Turman**, Columbus B.S. (Columbus State University) *Human Resource Management* 

Dominique Therese Villoria, Alexandria, VA

Human Resource Management

Morgan Kathleen Wolcott, Cincinnati B.A.

Human Resource Management

Qian Xu, Columbus Bachelor's (Shanghai University of Finance and Economics) Human Resource Management

**Yifan Zhang**, Harbin, China B.A. (Shandong University) Human Resource Management

**Kong Zhou**, Qingdao, China Bachelor's (Shandong University) *Human Resource Management* 

### Master of Landscape Architecture

**Jennifer Louise Fullenkamp**, Columbus B.S.Agr.

Landscape Architecture

**Anuja Manik Girme**, Pune, India *Landscape Architecture* 

**Emily Lynn Knox**, Columbus B.S.C.R.P. *Landscape Architecture* 

**Tianlun Le**, Columbus Bachelor's (Nanjing Forestry University) *Landscape Architecture* 

**Paul Edward Maginnity**, Columbus B.S. (University of California) *Landscape Architecture* 

Mitchell Douglass Scherer, Columbus B.S. (Pennsylvania State University) Landscape Architecture

**Shixiang Wu**, Lianyungang, China B.A. (Nanjing Forestry University) *Landscape Architecture* 

### **Master of Learning Technologies**

Karen Anne Bruce, Columbus B.A., B.A.Honors, M.A. (University of KwaZulu-Natal) M.A., Ph.D. Education

**Megan Fogel**, Hamilton B.A.

Education

Natalie Renee Gintert, Warren B.S. (Kent State University) Education

### Master of Mathematical Sciences

**Joseph Matthew Bedich**, Warren B.S., M.Educ. *Mathematics* 

**Faiz Waris Rizvi**, Lima B.S. *Mathematics* 

### Master of Music

Mary Ruth Brandal, Columbus B.Music (Ohio University) Music

**Todd Fessler**, Columbus B.Music, B.Mus.Ed.

**Justin Tynne Fields**, Columbus B.Music

Music

**Xiaoxi Huang**, Beijing, China B.Music (Minzu Universtiy of China) *Music* 

**Nicholas Allen Jackson**, Ravenna B.Music *Music* 

Vanessa Deborah Klassen.

Kindersley, Canada B.Music (Brandon University) Music

**Kristin Lin**, West Chester B.Music (University of Cincinnati) *Music* 

James Daniel Lindroth, Columbus B.Music (University South Carolina) Music

**Breanna Fajardo Thornton**, Chattanooga, TN B.S. (Southern Adventist University) *Music* 

**Laura Paige Urda**, Blacklick B.F.A. (Ohio University) *Music* 

**Abigail Amy Wagner**, Leland, MI B.Music (Lawrence University)

### Master of Plant Health Management

**Anna Nicole DeToro**, Streetsboro Bachelor's (Kent State University) *Plant Health Management* 

**Jack Travis Waldock**, Bloomdale B.S.Agr. *Plant Health Management* 

### Master of Public Administration

**Bethlehem Fikrie Aderajew**, Columbus B.A. *Public Policy and Management* 

**Henok Gerzher Alemayo**, Columbus B.A. (Hamilton College) *Public Policy and Management* 

Rachel Marie Armstrong, West Chester

Public Policy and Management

Ethan Charles Barnhardt. Columbus

B.A. (Clemson University)

Public Policy and Management

**Jessica Ruth Bracy**, Bowling Green B.A. *Public Policy and Management* 

rubiic rolley and management

**John David Bullock**, Columbus B.A. (University of Dayton) *Public Policy and Management* 

Jacob Richard Coakwell, Zanesville B.A. (Brigham Young University) Public Policy and Management

**Eric William Connelly**, Columbus B.A.

Public Policy and Management

**Kevin Michael Cripe**, Dublin B.S. (University of Dayton) *Public Policy and Management* 

**Corey Elizabeth Dixon**, Columbus B.A.
Public Policy and Management

Christopher Glenn Doarn, Loveland

Public Policy and Management

**Elizabeth Jo Douglass**, Columbus B.S.Hlth.Reh.Sci.

Public Policy and Management

Alexandra Elizabeth Fuchsman, Houston, TX B.S. (Virginia Polytechnic Institute and State University) M.Soc.Work

Public Policy and Management

Andrew Ryan Gorring, Pickerington B.A. Public Policy and Management

**Daniel Alan Gruber**, Westerville B.A. (University of Dayton) Public Policy and Management

**Margaret Irene Hamer**, Brownsburg, IN B.A. (University of Indianapolis) *Public Policy and Management* 

Nazek Hapasha, Dublin B.A. (William Paterson University of New Jersey) Public Policy and Management

Colleen Margaret Hartel, Columbus B.S. (Purdue University)
Public Policy and Management

Katie Kristine Fisher Holmes, Columbus

M.A. (Ohio University)
Public Policy and Management

**Kelsey Elaine Hopkins**, Reynoldsburg B.A. (Bethel College) *Public Policy and Management* 

Jessica Elise Johnson, Westerville B.A. (Slippery Rock University)

Public Policy and Management

Alexandria Alynn Kaufman, Tallmadge

B.A. (Ohio University)
Public Policy and Management

Public Policy and Management

**Harrison J. LeJeune**, Columbus B.A. *Public Policy and Management* 

Ashley Nicole McIntosh, Westerville B.A. (Mount Vernon Nazarene University) Public Policy and Management

Robert Geoffrey Mulcihy, Austin, TX B.A. (Texas State University) Public Policy and Management

Meghan Joan Murray, Dublin B.A. (Muskingum University) Public Policy and Management

Daniel Patrick Redmond, Columbus B.A.

Public Policy and Management

Emma Schlegel, New Albany R S Nurs

Public Policy and Management

Kevin James Schrock, Dublin B.A. (Miami University) Public Policy and Management

Cody Ray Schuette, Columbus B.A. (University of Cincinnati) M.A. (American Military University) Public Policy and Management

Jeffrey Angelo Shero, North Olmsted B.S.H.D.F.S.

Public Policy and Management

Gelan Su, Yuyao City, China B.A. (Zheijang University) Public Policy and Management

Liam Switalski, Roseville, MI B.A. (John Carroll University) Public Policy and Management

Ethan Thursby, Irvine, CA B.A. (Chapman University) Public Policy and Management

Adam Warren, Gallloway B.A. (Ohio Wesleyan University) Public Policy and Management

Wesley Michael Watkins, North Royalton

Public Policy and Management

Adam Thomas White, Hilliard Public Policy and Management

Master of Public Health

Aryayashoda Vinay Anturkar, Pune, India Bachelor's (Maharashtra Animal & Fishery Science University) Public Health

Sarah Yasmine Asad, Dublin B.S.Pub.Hlth., B.S. Public Health

Maria Relu. Columbus B.S., M.S. (Cleveland State University) D.Vet.Med. Public Hoalth

Hany F. Beniamin, Findlay B.A. (California State University) Public Health

Lauren Nicole Brinkman, Cincinnati B.A. (Xavier University) Public Health

Elizabeth Anne Brochu, Strongsville B.S. (Cleveland State University) Public Health

Jenna E. Brophy, Dublin B.S. (University of North Carolina) Public Health

Alexandra Michelle Brown, Ashland

Public Health

Leslie Marie Carson, Morrow B.A. (Cornell University) Public Health

Shibani Rimal Chettri, Ellicott City, MD B.S. Public Health

Ryan Michael Christy, Pickerington B.A.

Public Health

Kirsten Renee Chrzan, Pickerington B.A. (Denison University) Public Health

Kandice Michele Cross. Columbus B.Appl.Sci. (Bowling Green State University) Public Health

Liane Tamara Davila-Martin, Pickerington RS Public Health

Julia Lynne DeNiro, Columbus B.A. (Kenyon College) MS Public Health

Grace Elizabeth Ferguson, Parkton, MD B.S.Pub.Hlth. Public Health

Brooke Alexandra Gamiere, Mentor B.S.Pub.Hlth. Public Health

Christopher J. Gerity, Jr., Columbus B.S.Alld.Hlth.Prof. Public Health

Sara Godina, Columbus B.S. (University of Cincinnati) Public Health

Jennifer Golden Haag, University Heights B.S. (Northwestern University) Public Health

Aimee Louise Hahm, Lafayette, IN R S Pub Hlth Public Health

Emily Hahn, Hudson B.S. (Ohio University) Public Health

Abby Christine Hammond, Gallipolis R S Pub Hlth Public Health

Morgan Denise Hammonds, Shaker Heights B.A., B.S.Pub.Hlth. Public Health

Emily Hawley. Findlay B.S. (Miami University) Public Health

Jiayu He, Qigihar, China B.Med. (Sun Yat-sen University) Public Health

Kara Henderson, Tallmadge Bachelor's (Clemson University) Public Health

Angela Theresa Hetrick, Mentor B.S. (North Carolina State University) Public Health

Megan Hils, Grandview Heights B.A. (University of Dayton) Public Health

Avish Lunia Jain, Akron RS

Paul Thomas Jensen, Hilliard B.S. (Utah State University) M.D. (Dartmouth College)

Public Health

Public Health

Erin Kirwen, West Chester B.S. (University of Toledo) Public Health

Ivv S. Kuofie. Columbus B.A. (Washington University in Saint Louis) M.D. (University of Michigan) Public Health

Rebecca Jean Legenza, Ashland, KY B.S. (University of Louisville) Public Health

Jamie Elizabeth Luster, Maumee R S Pub Hlth Public Health

Hannah Marie MacDowell, Columbus Public Health

Alexandra Marie Medley, Columbus B.Music (Oberlin College) D.Vet.Med. Public Health

Elena Rebecca Mircoff, Gaithersburg, MD B.S. (Virginia Polytechnic Institute and State University) Public Health

Alison Newton Dublin B.S. (Wittenberg University) Public Health

Rory Ann O'Shaughnessy, University Heights Public Health

Kavla Michelle Windham Orso, Cincinnati

Public Health

Pallavi Oruganti, Dayton

Public Health Andreanna Diane Pavan, Hilliard

B.S.Agr. Public Health

Stacey Lyn Pence, Columbus B.S.Alld.Hlth.Prof. Public Health

Andy Ming Peng, Huntington Beach, CA B.S. (University of California) Public Health

Sarah Morgan Perry, Mentor B.A Public Health

Erica Salizzoni, Moon Township, PA B.S. (Allegheny College) Public Health

Emily Kathryn Sechrist, Reinholds, PA B.S. (Michigan State University) Public Health

Jaclyn Jean Serpico, Columbus R.A Public Health

Elizabeth Marie Snow, Clintonville B.A. (Ohio University) Public Health

Michael Guy Suits, Cornish, NH B.S. (Saint Lawrence University) Public Health

Christine Marie Szablewski Hilliard B.S.Agr., B.S.Nutrition, D.Vet.Med. Public Hoalth

Heather Leigh Tattersall. Columbus B.S. (University of Delaware) M.S. (Thomas Jefferson University) Public Health

**Brittany Thompson**, Columbus B.S. (Oregon State University) *Public Health* 

**Carly Robin Tomko**, Solon B.S.Pub.Hlth. *Public Health* 

Julie Ann Tritschler, Cincinnati Bachelor's (Xavier University) Public Health

**Abby Lauren Valek**, Uniontown, PA B.S.Pub.Hlth. *Public Health* 

William Thomas Whitlow, Columbus B.A.

Public Health

**Ziyan Yuan**, Xi'an, China B.S. (Purdue University) Bachelor's (China Agricultural University) Public Health

**Yi Zhou**, Beijing, China Bachelor's (China Agricultural University) Public Health

### **Master of Science**

Stephanie Berke Abrams, Columbus B.A. (Skidmore College) D.Vet.Med. (Ross University School of Veterinary Medicine) Comparative and Veterinary Medicine

Ahsan Zubair Akhtar, Cincinnati B.S. (Purdue University) Mechanical Engineering

**Richard Daniel Alexander**, Pickerington B.S.Elec.Cptr.Eng. *Electrical and Computer Engineering* 

Crystal M. Alfred, Galloway B.S.Alld.Hlth.Prof.

Health and Rehabilitation Sciences

Murtadha Hassan A Alshawaf, Dhahran, Saudi Arabia B.S. (Texas A&M University) Chemical Engineering

Larra Alzayed, Brecksville B.S. (John Carroll University) B.S.Nurs. (Ursuline College)

B.S.Nurs. (Ursuline College) Nursing

**John Paul Vance Anders**, Lancaster B.S.Educ. *Human Sciences* 

**Shana Elizabeth Angel**, Bolivar B.S.Agr.

Agricultural and Extension Education

**Ji Young Ann**, Columbus B.A., M.A. (Kyung Hee University)

Elizabeth Allyn Appleton, Allison Park, PA B.S. (Pennsylvania State University) Health and Rehabilitation Sciences

Phillip Andrew Aquino, Ashville B.S.Mech.Eng. Mechanical Engineering

**Alyssa Lyn Archdeacon**, Cincinnati Health and Rehabilitation Sciences

**Angela Michelle Arnold**, East Canton B.S.Agr.

Horticulture and Crop Science

Pragya Arora, Gwalior, India B.Tech. (Vellore Institute of Technology) Computer Science and Engineering

Kaitlyn N. Ashley, Cincinnati B.S.Nurs. (Northern Kentucky University) Nursing

Saad Farid Asim, Galloway B.S.Cptr.Sci.Eng. Computer Science and Engineering

**Brittany Nicole Austin**, Dayton B.S. *Nursing* 

Emmanuel Sunday Babayemi, Washington, DC B.S.Mech.Eng. Mechanical Engineering

Dana Marie Bachmann, Columbus B.S.Pharm.Sci. Pharm.D. (Northeastern Ohio Universities

Colleges of Medicine and Pharmacy)
Pharmaceutical Sciences

**Keenan Bailey**, Columbus Bachelor's (University of Notre Dame) *Human Sciences* 

**Amy J. Baldwin**, Columbus B.S.Nurs. (Valparaiso University) *Nursing* 

**Lisa Colette Baldwin**, Westerville B.A. B.S.Nurs. (Capital University)

**Megan Lynn Baloy**, Columbus B.A. (Miami University) *Nursing* 

Nursing

Rui Bao, Lu'an, China Bachelor's (University of Electronic Science and Technology of China) Electrical and Computer Engineering

Matthew James Barnett, Wooster Bachelor's (Utah State University) Environment and Natural Resources **Emily Carol Barnhart**, Columbus B.S. (University of Connecticut) *Human Sciences* 

Sarah-Jane I. Baserman, Upper Arlington B.Bus.Adm. (Ohio University) M.H.A. Nursing

Leo Pierre-Harold Bauer,

Saint-Hilaire-la-Palud, France B.S. (Illinois Institute of Technology) Mechanical Engineering

**Erica Lynn Baumker**, Delaware B.A., B.S.Nutrition

**Justin Robert Beausoleil**, Cincinnati *Mechanical Engineering* 

**David Beckett**, North Ridgeville B.S. (Bowling Green State University) *Vision Science* 

**Veronica Mae Beiring**, Dayton B.S.Elec.Cptr.Eng. *Electrical and Computer Engineering* 

**Christopher Douglas Bell**, Canal Winchester B.S.Nurs. *Nursing* 

**Jason Bello**, Chino, CA B.S. (University of California) *Mathematics* 

Kristen Lisa Benninger, Columbus B.S. (Miami University) M.D. (University of Toledo) Medical Science

Elizabeth Raewyn Benzie, Akron B.S.Nurs. (Kent State University) Nursina

Jason Edgar Berger, Albuquerque, NM B.S.Mech.Eng. (Kettering University) Welding Engineering

Madison Nicole Bernhardt, Columbus

Genetic Counseling Graduate Program

**Lacey Michelle Best**, Columbus B.S.Nurs. *Nursing* 

Rahel Beyene, Grove City B.S. (Utah State University) Chemical Engineering

**Anthony Harrison Birri**, Westerville B.S.Eng.Physics *Nuclear Engineering* 

**Brandon Joseph Bishop**, Shauck B.S.Mech.Eng. *Mechanical Engineering* 

David Benjamin Blankenbeckley,

Westerville
B.S. (University of Phoenix)
Nursing

**Caroline Block-Wilkins**, Columbus B.A. (Ohio Wesleyan University) *Nursing* 

Kathleen Bolton, Columbus B.S.Nurs. (Xavier University of Louisiana)

Olivia Nicole Bonanno, Columbus B.S. Nursing

**Ashleigh Marie Bope**, Reynoldsburg B.A. (Capital University) Environmental Science

Emily Claire Borden, Temperance, MI B.S. (University of Toledo)

Jacob Boroff, Lucas B.A. (College of Wooster) Vision Science

James Henry Bossart III, Cincinnati B.S.Mech.Eng. Mechanical Engineering

**Connor Michael Boster**, The Woodlands, TX B.S. (Texas A&M University) Welding Engineering

Madison Lee Bowling, Columbus B.A. (Otterbein University) Human Sciences

Nathan Allan Braden, Worthington B.S.Nurs.

Nursing

Cassie Loree Bradford, Columbus B.S.Nurs. (Mount Carmel College of Nursing)

Natalie Naomi Brandsrud, Dublin

B.S.Nurs. (Sioux Falls College)
Nursing
Michael James Brockman, Columbus

B.S. Public Health

**Matthew Dennis Brooker**, Delaware B.A. (Ohio Wesleyan University) *Nursing* 

**Michael Robert Brooker**, Grove City B.S., M.S. *Civil Engineering* 

Kara L. Brown, Hudsonville, MI B.S.Nurs.

Danielle Raye Browning, Columbus B.S.Nurs. (Mount Carmel College) Nursina

Margaret Mary Brucker, Columbus B.S. (University of Wisconsin) Vision Science

Ijzan Ishiwata Bruns, New Albany B.S. (Alderson Broaddus College) Nursina

Chelsea J. Burdulis, Gahanna B.S. (Ohio University) B.S.Nurs. (Capital University) Nursing

Crystal Lee Burnfield, Columbus B.S. (Taylor University) M.Pub.Hlth. Nursina

Emily Nicole Cacchione, Galloway B.S.Nurs. (University of Kentucky) Nursina

Zhiyuan Cai, Jingmen, China B.S. (University of Science and Technology of China) Geodetic Science and Surveyina

Cari Diane Callaway, Columbus B.S.Nurs. (Ohio University) Nursina

Qizhi Cao. Powell B.S.Nurs. (Rutgers University) Nursina

Yiran Cao, Dezhou, China B.Engr. (Renmin University of China) Computer Science and Engineering

Jean Marie Caputo, Columbus

B.S.Nurs. (Mount Carmel College of Nursing) Nursina

Theresa Carlisle, Grove City R S Nurs Nursina

Keldon Michael Carroll, Columbus D.D.S. (University of Southern California) Dentistry

Sarah S. Case, Columbus R S Mech Eng Mechanical Engineering

Michael Caselton, Cincinnati B.S. (Purdue University) Mechanical Engineering

Max Fedor Chaiken, Cincinnati B.S.Elec.Cotr.Eng. Nuclear Engineering

Kasandra Chambers Columbus B.S.Pharm.Sci., M.B.A., Pharm.D. (Cedarville University) Pharmaceutical Sciences

Nitish Chandramouli, Mumbai, India B.Tech. (Indian Institute of Technology Kanpur) Mechanical Fnaineerina

Ganesha Tri Chandrasa, Bekasi, Indonesia B.S. (Bandung Institute of Technology) Atmospheric Sciences

Srividhva Chandrasekharan, Chennai, India B.Engr. (Anna University) Computer Science and Engineering

Christopher Jia Jen Chang, New Albany B.S.Chem.Enq. Biomedical Engineering

Jai Sai Surya Chanumolu, Hyderabad, India Industrial and Systems Engineering

David A. Chapin, Westerville B.S. Nursina

Zachary Lewis Chaplow, Columbiana B.S.Educ. Human Sciences

Brandon Chapman, Cincinnati B.S. (Virginia Polytechnic Institute and State University) Mechanical Engineering

Kaylin Marie Chasser, Columbus B.S.Agr. Animal Sciences

Eric Chatal, Medina Diploma (Huron School of Nursing) B.S.Nurs. (Ohio University)

Olive Chelangat, Cincinnati B.S. (Georgia Institute of Technology) Mechanical Engineering

Yu-ju Chen, Columbus B.S.Nutrition (University of Illinois) Food Science and Technology

Holly Rae Chesnick, Columbus B.S.Nurs. Nursina

Rachel Marie Childs. Columbus M.S., M.A. (Case Western Reserve University)

Kavyasree Chintalapudi, Aswapuram, India M.S. (Homi Bhabha National Institute) Chemistry

Kou II Cho, Wanju, Korea B.S. (Yonsei University) Human Sciences

Trevor Chopko, Akron RS Pharmacology

Anant Chowdhary, New Delhi, India B.Tech. (Delhi Technological University) Computer Science and Engineering

Corrvn Rae Christy, Powell B.S. (Franklin University) Nursing

Iza Amargo Clark, Columbus B.S.HDFS Nursina

Jeremy James Clark, Custar Nursina

Robert Arthur Clark, Cincinnati B.S.Mech.Eng. (Purdue University) Mechanical Engineering

Shannon Denise Clark, Orient B.S.Nurs. (Capital University) Nursing

Sakura Christy Cleal, Minneapolis, MN B.S.Nurs. (California State University)

Patrick J. Cochran, Jr., Ravenna B.A., B.S.Nurs. (Kent State University) Nursino

Sam Constantine Colachis IV, Columbus B.S.Biomed.Eng. Biomedical Engineering

Stephen Alexander Collier, Union, KY B.A. Human Sciences

Laura Jane Comee, Savage, MN B.S.Nutrition (College of Saint Benedict) Health and Rehabilitation Sciences

Cortney Jo Cook, Sheffield Lake B.S.Pharm.Sci. Pharmacology

Lianna Hope Costantini. Cincinnati B.S.Food.Ag.Bio.Eng. Health and Rehabilitation Sciences

Megan Leigh Costine, Grove City B.S.Nurs. Nursina

John Clayton Craft, Columbus Horticulture and Crop Science

Kelsey Lauren Craig, Cincinnati B.S.Aar. Comparative and Veterinary Medicine

Chelsea Helene Crosby, Pearland, TX B.S.Agr.

Environment and Natural Resources

Kara Lindsay Crosthwaite, Miamisburg B.S.Nurs. Nursing

Laura Marie Cully, Olmsted Township Human Sciences

Trina Michele Cunningham, Circleville B.S.Nurs. Nursina

Ashley Marie Cyphers, Pataskala B.S.Nurs. Nursina

Elizabeth Dallman, Cincinnati Pharm.D. (Ohio Northern University) Pharmaceutical Sciences

Tracy Denise Daniels, Pickerington R S Nurs Nursing

Anees M. Dauki, Columbus B.Med., B.Surgry. (Al-Fateh University) M S

Pharmaceutical Sciences Ela Joy Davis, Hilliard

B.S.Nurs. Nursina

Theresa Lynn Davis, Millersport B.S.Nurs. (Kent State University) M.S. (Gonzaga University)

Julia Silence De Mello, Cincinnati B.A. (University of Cincinnati) Nursina

Eric Alan Dean, Indianapolis, IN B.S. (Purdue University) Horticulture and Crop Science

Jennifer Halie Dean, Columbus B.S., B.S.Nurs. (Florida State University) Nursina

Katherine Jessica Dean, Ashville B.S.Humn, Ecol., M.S. Nursing

Melissa Dawn Deaton, Columbus B.S.Nurs. Nursina

Frederick Christian Deiderich III. Hilliard B.S.Cptr.Sci.Eng.

Computer Science and Engineering

Dhruba Jvoti Deka, Guwahati, India B.Tech. (National Institutes of Technology, India) Chemical Engineering

Heather Lannette Dellinger, Columbus B.S.Nurs. (Lourdes University) Nursina

Emily Catherine Delmotte, Columbus B.A. (University of Michigan) M.Pub.Hlth. (Johns Hopkins University) Nursing

**Meridith Kay DeLuca**, Columbus B.S. (University of St. Francis) *Anatomy* 

Ameya Ashish Deshmukh, Columbus

Biomedical Engineering

nomeulcui Engineenny

**Dushyanta Dhyani**, Dehradun, India B.Tech. (National Institutes of Technology, India)

Computer Science and Engineering

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**Naserin Salameh**, Columbus B.S.Nurs. (Otterbein University) *Nursing* 

**Kathryn Marie Satkowski**, Gahanna B.S. *Nursing* 

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**Kuan-Hsuan Shen**, Taichung, Taiwan B.S. (National Taiwan University) *Chemical Engineering* 

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### Master of Social Work

Leann M. Adkins. Galion

B S Soc Work

**Hannah Elise Adkins**, Proctorville B.S.Pharm.Sci. *Social Work* 

Social Work

Elena Anne Allen, Columbus
Rachelor's (Ohio University)

Bachelor's (Ohio University) Social Work

Audrey Patricia Lucille Amann, Farmington Hills, MI B.S.Soc.Work Social Work

Allyson Kaye Angles, Urbana B.A. (Anderson University) Social Work

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William Otis Arnold IV, Columbus B.A. (Shimer College)

Rachel Lauren Arnott, Granville B.S. (Ohio University)

Social Work

Social Work

Alexa Courtney Marie Aton, Noblesville, IN B.S.Soc.Work

Social Work

Sherice Vinee Avitsey. Canal Winchester

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**Ashley Christine Baker**, West Liberty Bachelor's (Capital University) Social Work

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**Ashley Lee Bennett**, Ashville B.S. (University of Maryland) Social Work

De'Anna Denise Benson, Oak Grove, KY Bachelor's (University of Louisville) Social Work

Renee Marie Berglund, Columbus B.S.Educ. (Ashland University) Social Work

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**Cassandra Jo Bernowski**, Etna B.S. (Kent State University) Social Work

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**Courtney Becca Birkhimer**, Newark B.S.Soc.Work *Social Work* 

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**Anastasia Eleni Bizios**, Blacklick B.S.Soc.Work *Social Work* 

**Amy Marie Blacker**, Marengo Bachelor's (Capital University) Social Work

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Kirsten Nicole Borton, Hilliard

B.S.Soc.Work
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**Tiara Symone Bostock**, Columbus B.A. (Bowling Green State University) *Social Work* 

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Social Work

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Social Work

Stephanie Ruth McElroy, Richwood

B.S.Soc.Work Social Work

Jamie Lynn McGrath, Dayton

B.S.Soc.Work Social Work

Tina M. McGrevy, Springfield

B.S. (Urbana University)

Social Work

Christine Ann McKee, Utica

Bachelor's (Mount Vernon Nazarene University) Social Work

Shaun Michael McLaughlin, Sandusky B.S.Soc.Work (Bowling Green State University)

Social Work

Kendle Nicole Meese. Columbus

B.A. (University of Maryland)

Social Work

Ria Delight Megnin, Dayton

B.A. (Hartwick College) Social Work

Brittany Lynn Mendenhall, Gahanna RΑ

Social Work

Audrey Lynn Merritt, Massillon

B.S.H.D.F.S. (Kent State University)

Social Work

Mary J. Meyer, Spencerville

B.A. (Bowling Green State University)

Social Work

Autumn Lee Miller, Cincinnati

B.A. Social Work

Carrie Nicole Miller South Charleston

B.A. (Malone University)

Social Work

Olivia Nicole Miller, Somerset

R S Env Nat Res Social Work

Brandi Marie Moffitt. Newark

Bachelor's (Mount Vernon Nazarene University)

Social Work

KC Montoya, Mount Vernon B.S.Soc.Work (Mount Vernon Nazarene

University)

Social Work

Connor lan Moore Mansfield

B.S.Soc.Work Social Work

Brandon Michael Morgan, Columbus

B.S. (Miami University)

Social Work

Hanna Therriault Musil. Tiffin

Bachelor's (Calvin College)

Social Work

Chelsie Anglin Needham, Columbus

B.S. (University of Georgia)

Social Work

Paige Elizabeth Newton, Cincinnati

R S Soc Work Social Work

Kav Elaine Norcross. Columbus

B.A. (Ohio Northern University) Social Work

Erin R. O'Riley, Dublin

B.A.

Social Work

Justin Richard Parsley, Columbus

B.S. (Shawnee State University)

Social Work

Effie D. Patitsas. Columbus

B.A.Jour. Social Work

Kelsey Leigh Peters, Columbus B.Bus.Adm. (University of Kentucky)

Social Work

Olivia Ann Pfister, Upper Arlington

RSHDFS

Social Work

Sarah Jo Piatt. Nevada

R S Soc Work

Social Work

Kelli Renee Plummer, Dayton

B.S. (Wright State University)

Social Work

Stephanie Marie Powers, Canal Winchester

RΑ

Social Work

Social Work

Joshua Allen Raines, Lancaster

Bachelor's (Olivet Nazarene University)

Jenna Renee Rano, Columbus

B.S.Soc.Work

Social Work

Hannah Marie Reall, Bainbridge

Colleen Michelle Reeves, Columbus

RΔ Social Work

B.A. Social Work Leah June Renner St Marys Bachelor's (Ohio University)

Social Work

Alexandra Elizabeth Restelli, Columbus B.S. (Ashland University)

Social Work

Tricia Ann Reyes, Springboro B.A. (Wright State University)

Social Work

Makenzie Lynn Ricker, Bucyrus

B.A. (The University of Findlay)

Social Work

Andrew Joseph Rielinger,

Richmond Heights B.S.Soc.Work

Social Work

Maeve Therese Montecillo Rising,

Columbus B.A. (Ohio Wesleyan University)

Social Work

Vincent Lee Roadcap, Columbus

Bachelor's (Capital University)

Social Work

Alaina Michelle Roberts, East Liverpool

B.A. (Bethany College) Social Work

Holly Emily Robinson, Loveland

B.S. (Cedarville University)

Social Work

Tiffany M. Rouse, North Fairfield Social Work

Elizabeth Anne Rugh, Hilliard

Bachelor's (Capital University) Social Work

Abbev Nicole Rutschilling, Columbus

B.A. (Capital University)

Social Work

Clary Sawyer, Columbus B.A. (Denison University)

Social Work

Emily Ann Schaub, Kenton

Bachelor's (Capital University) Social Work

Jenna Marie Schneider, Columbus

B.A. (Miami University) Social Work

Jennifer Rose Scholl, Columbus

B.F.A. (Savannah College of Art and Design)

B.S. (University of Cincinnati)

Kayleigh Nicole Shaffer, North Lewisburg B.S.Soc.Work

Karla Jean Shockley McCarthy, Granville

B.A. (Allegheny College)

Social Work

Social Work

Hassan M. Shukri Hilliard

B.S.Soc.Work (Capital University)

Social Work

Kimberlie Marie Simms, Columbus B.S. (Brigham Young University)

Social Work

Jennifer Nicole Sims, Lewis Center

B.S.Soc.Work (Bowling Green State University) Social Work

Joni Lynn Sivey, Columbus

B.A. (University of North Texas) M.S. (California State University)

Social Work

Hayley Nicole Smith, Strongsville

B.S.Soc.Work Social Work

Kayla Aryn Smith, Ottawa B.S.Soc.Work

Social Work

Marissa Grace Smith. Chillicothe

B S Soc Work

Social Work

Sarah Elizabeth Smith, Cincinnati

B.S.Soc.Work

Social Work

Anita Katrina Snyder, Columbus

B.S.Humn.Ecol., B.S.Soc.Work

Social Work

Susan L. Snyder. Westerville B.S.Soc.Work

Social Work

Diane Lynn Soltesz. Mansfield

Bachelor's (Mount Vernon Nazarene

University)

Jessica Erin Stepp Sornchai, Cardington

B.S.Soc.Work Social Work

Kristen M. Sortman, Tipp City

B.S. (Wright State University) Social Work

Abigail Christine Souzis, Groveport

B.S. (Taylor University) Social Work

Jessica Brvn Springer, Marysville B.S.Soc.Work (Olivet Nazarene University)

Social Work

Jacob Lee Stabler, Ottawa

B.S.Soc.Work (Bluffton University)

Social Work

Autumn Renai Stasheen, Grove city B.S. (Indiana Wesleyan University)

Social Work

Alexis Brianne Steffanni, Xenia

B.S. (Cedarville University)

Social Work

Samantha Marie Stehlik Aurora

B.A.

Social Work

Amanda Marie Stewart, Hilliard

B.A.

Social Work

Hannah Victoria Stewart, Fayetteville

B.S.Soc.Work

Social Work

Donna Jane Stites, New Carlisle

B.S.Soc.Work

Social Work

Nicole Elizabeth Stoddard, Crofton, MD

B.S. (University of Dayton) Social Work

Heather Marie Stone, Marion

Bachelor's (Mount Vernon Nazarene University)

Social Work

Chrystal Stover, Willard

B.S.Soc.Work

Kristin Maureen Strout, Franklin, IN

Bachelor's (University of Saint Francis

Indiana)

Social Work

Billie J. Suain-McClead, Lancaster Bachelor's (Mount Vernon Nazarene

University) Social Work

Rhiannon Yvonne Suggs, Mount Vernon

B.A. (Kenyon College)

Social Work

Nicole Elizabeth Summers, Medina

B.S.Soc.Work

Social Work

Shannan Alyse Swaim, Santa Barbara, CA

B.S.Soc.Work

Social Work

Lauren Nicole Swickheimer, Pickerington

B.S. (Cedarville University)

Social Work

Heather Lynn Syrus, Columbus

B.A.

Social Work

Callie Ann Talbot, Cincinnati

B.S.Soc.Work (University of Cincinnati)

Social Work

Azalea Chee Tang, Columbus B.A. (Davidson College)

Social Work

Jordan Taylor Temple, Blacklick

B.S.Soc.Work (Bowling Green State University)

Social Work

Stephanie Tenny, Columbus B.S. (University of Cincinnati) Social Work

Bansari Yogeshkumar Thakkar,

Vadodara, India

B.A., Postgrad.Dipl. (Maharaja Sayajirao University of Baroda)

Social Work

Clifford Lloyd Thompson IV, Poland

RS

Social Work

Sarah Renee Thompson, Cambridge

B.S.Soc.Work Social Work

Amber Nichole Tickle, Elida RΑ

Social Work

Jessica Marie Trevail. Columbus

B.A. (State University of New York)

Social Work

Cynthia Aleace Tyson, Columbus B.S. (Youngstown State University)

M.A., Ph.D.

Social Work

Rachel RaNae Tyson, Dayton

B.S. (University of Toledo) Social Work

Leah James Uhrig, Chillicothe

B.S.Soc.Work Social Work

Kerri Lee Uresti, Marion R S Soc Work

Social Work

Erin M. Van Gorden, Marysville

B.S.Soc.Work

Social Work

Jamie Elyce Van Voorhis, Springboro

B.S. Social Work

Amy Louise Varney, London

B.A. (Northwest Nazarene University)

Emily Ann Vermillion. Rawson

B S Soc Work Social Work

Social Work

Kelley Vernon, Plain City B.S.Soc.Work (Cedarville University)

Social Work

Kelsey Jordan Vice, Loveland

Bachelor's (Xavier University) Social Work

Theresa Marie Viola, Sunbury

B.A. (Capital University) Social Work

Michaela E. Virden, Columbus

B.A. (Mount Vernon Nazarene University)

Social Work

Emily Walsh, Columbus Bachelor's (Lindenwood University)

Alyssa Rose Warner, Grandview Heights

R S Soc Work Social Work

Social Work

Eva Marie Watson, Columbus B.F.A. (Ohio University)

Social Work

Emily Webster, Dayton

B.A. (Wright State University) Social Work

Kelsey Lee Wegener, Hillard

B.A. (Hartwick College) Social Work

Katlin Nicole Weinstein, Pataskala

B.S. (Ohio University)

Social Work

Tara Renee Brenneman Wenger, Columbus

B.S. (Frostburg State University)

Social Work

Natalie Kay White, Newark B S Soc Work (Mount Vernon Nazarene

University) Social Work

Amanda Renee Warnecke Willis, Columbus B.Bus.Adm. (Ohio University)

B.S.Soc.Work Social Work

Jesselyn May Winegardner, Waynesfield

B.A. Social Work

Scott Colin Winter, Powell

B.S.Soc.Work

Social Work

Lori Rae Yeager, Tiffin

B.A. (Bowling Green State University)

Social Work

Cassandra Carr Zahller. Columbus

B.S.HDFS (Miami University) Social Work

Alina B. Zayas-Navarrete, Lafayette, IN B.S. (Purdue University) Social Work

Master of Sports Coaching

Louis Thomas Addazio, Needham, MA

B.A. (Boston College) Human Sciences

Tevin DaVon Johnson Columbus B.S.Educ. Human Sciences

Randall Benjamin Joyner, Coppell, TX B.S. (Southern Methodist University)

Human Sciences

**Scott Anthony Meyers**, Columbus B.Bus.Adm. (Ohio University) *Human Sciences* 

**Andrew Jacob Moling**, Canal Winchester B.S.Educ.

Human Sciences

uniun sciences

**Raymond Donald Noe**, Columbus B.A. (Wittenberg University)

Human Sciences

**Sheridan Conor Spychalski**, Columbus B.S. *Human Sciences* 

.....

Kasey White, Little Hocking B.A. (Otterbein University) Human Sciences

### **Specialized Master in Business**

Jared Daniel Ablass, Grandora, Canada B.Comr.Four. (University of Saskatchewan) Business Administration: Finance

**Sandra Olajumoke Adigun**, Miami, FL B.S. (University of Bradford) *Business Administration: Finance* 

**Raymond Jonathan Arnold**, Springfield B.A., B.S.Educ.

Business Administration: Finance

Matthew Christopher Boehner, Lynnfield, B.S.Bus.Adm. MA

Business Administration: Finance

**Philip Pierre Chelala**, Brecksville B.S.Bus.Adm.

Business Administration: Finance

**Chi Cheng**, Wuhan, China B S

Business Administration: Finance

Chen An Chueh, New Taipei City, Taiwan B.Bus.Adm. (National Taiwan University of Science and Technology) Business Administration: Finance

Nicholas Denker, Enid, OK B.S.Bus.Adm. (Oklahoma State University) Business Administration: Finance

**Dilruba Ekici**, Istanbul, Turkey B.S. (Koc University) Business Administration: Finance

**Weijun Fu**, Columbus Bachelor's (Shandong University) Business Administration: Finance

**Guannan Guo**, Tangshan, China B.S. (Indiana University) Business Administration: Finance

**Yue Guo**, Haikou, China B.S. (Pennsylvania State University) Business Administration: Finance Nitish Gupta, Delhi, India B.Bus.Adm. (Narsee Monjee Institute of Management Studies) Postgrad.Dipl. (Institute of Management Technology)

Business Administration: Finance

Derrick Mwaniki Ithenya, Columbus B.Comr.Four. (Jomo Kenyatta University of Agriculture and Technology) Business Administration: Finance

Garrett Anthony Koutsopoulos, Vermilion B.Bus.Adm. (Tiffin University) Business Administration: Finance

**Chad Krebs**, Columbus B.S. (Western Kentucky University) Business Administration: Finance

Yinqi Lin, Columbus Bachelor's (Shanghai University of Finance and Economics) Business Administration: Finance

**Shichang Liu**, Wuhan, China Bachelor's (Wuhan Donghu University) Business Administration: Finance

**Qianhui Lu**, Jiashan, China B.S.Bus.Adm. (University of Alabama) *Business Administration: Finance* 

**Zeyu Lyu**, Westerville B.S.Bus.Adm. (Bowling Green State University) Business Administration: Finance

Rui Ma, Xuzhou, China B.Bus.Adm. (University of Kentucky) Bachelor's (China University of Mining & Technology Xuzhou) Business Administration: Finance

Samarth Malhotra, Downers Grove, IL B.S.Bus.Adm.

Business Administration: Finance

Yuxiang Mao, Shanghai, China Bachelor's (Shanghai International Studies University) Business Administration: Finance

Naman Mehrotra, Hillsborough, NJ B.S.

Business Administration: Finance

William Lee Meredith, Columbus B.S.Bus.Adm. (Coastal Carolina University) Business Administration: Finance

**Spoorthi Metlapalli**, Mumbai, India B.Comr.Three. (University of Mumbai) *Business Administration: Finance* 

**David Thomas Meurer**, Granville B.A. (Denison University) *Business Administration: Finance* 

Joshua Glen Myers, Worthington B.S., Master's (Embry-Riddle Aeronautical University)

Business Administration: Finance

**Erik Yeager Norlin**, Greencastle, IN B.A., B.S. (Purdue University) *Business Administration: Finance* 

Benjamin Serge M Pastur, Brussels, Belgium B.S. (Davis And Elkins College) Business Administration: Finance

**Luke Isaiah Pleta**, Washington, PA B.S. (California University of Pennsylvania) *Business Administration: Finance* 

Yuxuan Qiu, Shanghai, China Bachelor's (Shanghai International Studies University) Business Administration: Finance

**Garth Daniel Ranz, N**ewark B.S.Bus.Adm. *Business Administration: Finance* 

Pooja Sanjiv Shah, Bharuch, India B.Bus.Adm. (Narsee Monjee Institute of Mangament Studies) Postgrad.Dipl. (University of Mumbai) Business Administration: Finance

**Brian Terry Thomas**, Columbus B.S.Bus.Adm. (University of Dayton) *Business Administration: Finance* 

Hai Van Tran, Ho Chi Minh, Viet Nam B.Bus.Adm. (Ritsumeikan Asia Pacific University)

Business Administration: Finance

**Alexandros Tselekidis**, Thessaloniki, Greece B.Bus.Adm. (University of Macedonia) Business Administration: Finance

**Yuqi Wan**, Columbus Bachelor's (Wuhan University) Business Administration: Finance

**Fengjiao Wang**, Tangshan, China B.Bus.Adm. (University of Cincinnati) Business Administration: Finance

**Shiang Yun Wang**, Taipei, Taiwan B.Bus.Adm. (Soochow University) *Business Administration: Finance* 

Shuangcheng Wang, Dongying, China Bachelor's (Shandong University of Finance and Economics) B.S. (University of Minnesota) Business Administration: Finance

**Zenan Wang**, Suzhou, China Bachelor's (Soochow University) *Business Administration: Finance* 

**Zhihao Wang**, Columbus B.Engr. (Dalian Maritime University) Business Administration: Finance

Shanran Wei, Xiangyang, China Bachelor's (Southwestern University of Finance and Economics) Business Administration: Finance **Fan Wu**, Tangshan, China B.S.Bus.Adm. *Business Administration: Finance* 

**Xiang Wu**, Longyan, China B.S.Bus.Adm. Business Administration: Finance

Mengqi Xie, Hangzhou, China Bachelor's (East China University of Science and Technology) Business Administration: Finance

Jiabei Yu, Wuhan, China B.Bus.Adm. (University of West Georgia) Bachelor's (Zhongnan University of Economics and Law) Business Administration: Finance

**Kelvin Zhao**, Dublin B.S. (Kent State University) Business Administration: Finance

Peixue Zheng, Shanghai, China B.Bus.Adm. (Shanghai University of Finance and Economics) Business Administration: Finance

**Zihe Zheng**, Nanjing, China Bachelor's (Southeast University) Business Administration: Finance

Fanpeng Zhou, Shanghai, China Bachelor's (Shanghai Lixin University of Accounting & Finance) Business Administration: Finance

### **Certificate of Nurse Educator**

**Colleen Marie McGovern**, Westerville B.S.Educ. (Ohio Dominican University) B.S.Nurs., M.Pub.Hlth. *Nursing* 

**Carol M. Nikolai**, Dayton B.S., M.S. (Wright State University) *Nursing* 

Alice M. Teall, Columbus B.S.Nurs. (Capital University) M.S. (Wright State University) Nursing

**Kimberly Wade Young**, Beavercreek B.S.Nurs. (Auburn University Main Campus) *Nursing* 

### This program is not an official graduation list.

This printed program lists students who were eligible to graduate for Spring Semester 2018, as of 5:00 p.m., April 23, 2018, pending the outcome of final examinations and final grades. Therefore, it should not be used to determine a student's academic or degree status. The University's official registry for conferral of degrees is the student's permanent academic record, kept by the Office of the University Registrar, Student Academic Services Building, 281 West Lane Avenue, Columbus, OH 43210-1132.

### College of Arts and Sciences

Executive Dean: David C. Manderscheid

Peter L. Hahn, Divisional Dean **Arts and Humanities** 

Christopher M. Hadad, Divisional Dean Natural and Mathematical Sciences

Janet M. Box-Steffensmeier, Divisional Dean Social and Behavioral Sciences

### Bachelor of Arts

Thorayah Hatem Abdelqader, Hilliard Magna Cum Laude

with Research Distinction in Arabic

Farhiya Mahamed Abdi, Clarkston, GA Marwa Ahmed Abdikarim, Somalia Aya Falah Abdulrahman, Hilliard Cum Laude

Lucas Abreu, Blue Springs, MO Cum Laude

Emily Ann Adam, Newark Elizabeth Adams, Succasunna, NJ

Summa Cum Laud Rachel Christine Adams, Cincinnati

Hannah Alexandra Adazzio, Springboro Maana Cum Laude

with Research Distinction in Speech and Hearing Science

Drake Lawrence Addis, Pataskala Java Lalitha Adkins, Copley Maana Cum Laude

Noah Daniel Adkinson, Columbus Aneegah Ahmed, Dayton William SaeJin Ahn, Columbus Marsha Akua Akoto, Hilliard Delali Florentine Akpeko, Lome, Togo Frank Albanese III, Dayton

Aric Joseph Albers, Dayton Maana Cum Laude

Raymond Albertini, Lewis Center Cum Laude

Nicole Lynne Albrigo, Independence Amal Abdisalan Ali, Hilliard Rahia Ali Pakistan

Cum Lauda

Amr Alkhayri, Columbus Kathryn Christine Allen, Newport Beach, CA Mark Joseph Allison, Worthington Malik Mohammed Alnakhaleh, Columbus Adam Richard Amici, Westerville Maana Cum Laude

Jeffrey Amoateng, Queens, NY Prativa Amom, Cincinnati Denise Andersen, Copenhagen, Denmark Katarina Jennifer Anderson, Longmont, CO

Samantha Joan Anderson, Eastlake George Andrei, Sibiu, Romania

Summa Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction in History

Irina Andrianova, Schaumburg, IL Jennifer Nicole Aneshansley, Worthington Melissa S. Angeli Reyes, Hilliard Emily Kathryn Ankeney, Miamisburg

Maana Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction in Speech and Hearina Science

Katie Elizabeth Antal, Slippery Rock, PA Brianna Megan Antinoro, Rochester, NY Maana Cum Laude

with Honors in the Arts and Sciences Joshua Lee Antle, Gahanna Maxwell Joseph Arena, Powell Fares Arfa, Laval, Canada Chris Michael Arian, Cleveland Maana Cum Laude

Michaela Nicole Arico, St. Charles, MO

Bess Hannah Aronoff, Shaker Heights Cum Laude

Amanda Jade Aronson, Ambler, PA Magna Cum Laude

Jessica Michele Arrasmith, Grove City Sammy Assaf, Cleveland Elizabeth Diane Auckley, Bay Village

Maana Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Chemistry

John Eric Averman, Auburn Township John Nathaniel Avramaut, Cleveland Brian Avsec, Kirtland

Taylor Erikka Axene, Columbus

with Research Distinction in Arts Management Cory Douglass Baade, South Euclid Aisuluu Baatyrbek kyzy, Cincinnati Brent Thomas Bachman, Westerville Jordan Michele Bagley, Gahanna Karly Nicole Baird, Sidney Shayla Denee Baker, Dayton Lisanne Cates Ball, Columbus Alexandra Rose Banda, Fremont Brick Woodrow Bankes, Pickerington Francesca Marie Bankovich, Hudson Rachel Elizabeth Banks, Williamsburg Jessica Lyn Barger, Columbus Mahmud Rashiqul Bari, Columbus Jaime Edward Barlow, Upper Arlington Kaitlyn Renée Barnes, Mason

Maana Cum Laude

with Honors in the Arts and Sciences Katherine Nicole Barnes, New Albany Trevon James Barnes, Twinsburg Madeline Anne Barrett, Cincinnati Maana Cum Laude

Kaitlyn Renee Barton, Martinsville Magna Cum Laude

Connor Hayes Bauer, Mason Mitchell Robert Baughman, Reynoldsburg Rachel Lauren Baum, Hilliard Vaniesha Baynard, Macedonia

Kimberly Dawn Bean, Cambridge Kayla Marie Beckwith, Ashtabula Rachel Elise Bednarski, Rocky River

Washington Court House Magna Cum Laude

Kyndell Noel Belcher, Dover, DE

Cody Austin Bennett, Temecula, CA Gabrielle Ruth Benton, Ashland Summa Cum Laude

Jennifer Margaret Berkey, Huber Heights Michael Allan Berreth, Bismarck, ND Kimberly Yong Berry, Pickerington Bronson Lee Best, Lima Melissa Joyce Bettinger, Zanesfield Sara Renee Biasella, Canton Luke Anthony Biasotti, Pleasant Valley, NY Sara Lajean Bierly, Lewisburg Olivia Leah Birdsall, Gilbertsville, NY Maana Cum Laude

Elizabeth Pauline Birkhoff, Columbus Cum Laude

Alexis Carol Birt, Grove City Sarah Bishop, Aurora, IL Noah Blacker, Grove City

DeVaughn Michael Blair, Cincinnati Hannah Leigh Blakely, Urbana Taylor Lynne Bland, Madison

Matthew Scott Boals, Mansfield Michael Bock-Bacalao, Upper Arlington

John Gregory Bodnar, Westlake Maana Cum Laude

Daniel Louis Bodner, Cleveland Katie Scarlett Boehm, Fairfield

Summa Cum Laude

Wesley Chapman Boettcher, Wyoming Milana Igorevna Bogina, Columbus Oyindamola Olabisi Bola, Columbus

Mallory Paige Bolen, Marlton, NJ

Vincent Bradley Bonta, Upper Arlington Shiana Christine Bookless, Zanesville

Craig David Bossley, Columbus

Larisa Raynea Barton, Gnadenhutten

Cum Laude

Jared Michael Becker, East Northport, NY

Maana Cum Laude Chelsie Marie Beechler,

Rachel Nicole Beery, Chillicothe

Emily Mercedes Benjamin, Beavercreek

with Research Distinction in English Brody Scott Blaine, Powell

Andrea Marie Blankemeyer, Columbus Grove Cum Laude

Krista Anne Bliumentalis, Bay Village Cum Laude

Alex Devany Blumenthaler, Brecksville

Emily Taylor Boes, Highland Heights

with Honors in the Arts and Sciences

Magna Cum Laude

Maana Cum Laude

Cum Laude Jonathan Michael Borgese, Smithtown, NY

Cum Laude

Taylor D'erricka Bostic Lorain Zachary Ryan Botkins, Columbus with Research Distinction in En Brian Keith Botley, Jr., Pataskala Gabrielle Katheryn Bower, Canal Winchester Tansi Bowsman, Painesville Charles Wayne Boyles, Columbus Tristen Scott Bradley, Dayton

Maggie Michelle Brannam, Dublin Kristen Mary Bratton, Akron Magna Cum Laude

Rollin Thomas Bresson, Canfield Maana Cum Laude Mina Marie Breuer, Cincinnati

Cum Laude Megan Marie Brickman, Hudson

Maana Cum Laud Austin Patrick Briskey, Hicksville

Cum Laude

Tasheena L. Broadnax, Cleveland Chase Glenn Broady, Gahanna Bailie Brianne Brock, Swanton Brandi Brooks, Columbus Kevin A. Brosius, Worthington Summa Cum Laude

Brianna Javon Brown, Canton Evan Spencer Brown, Columbus Maana Cum Laude

Gabrielle King Brown, Marion Isabelle Marie Brown, Columbus Cum Laude

with Research Distinction in Comparative Studies

Maribeth Frances Brown, Columbus

Molly Josephine Brown, Mentor Zachary Harrison Brown, Kitts Hill Garrett Michael Bruce, Lima Alexandrea Marie Brumfield, Gallipolis Rachel Nicole Brunello, Mayfield Heights Cum Laude

Alessandro Brunetti, Mansfield Maana Cum Laude

Jonathan Pellecer Bruns, San Jose, CA Allen Frederic Bryan, Reynoldsburg Christian A. Bryant, Cleveland Mikayla Marie Bucci, Mayfield Village Stephanie M. Buck, Toledo Julianna Lynne Bugajski, Cincinnati Ashley Fernanda Builes, West New York, NJ Brianna Lynne Bull, West Milton Tara Lauren Burchwell, Commercial Point

Alexandria R. Burke, Hilliard Magna Cum Laude Hayley Lynn Burke, Avon Lake

Michaela Marie Burke, Cleveland Summa Cum Laude Tayler Nicole Burke, Lewisburg, PA

Cum Laude Regan Fraser Burke-Onda, Novelty Madeline Ruth Burns, Westerville

Summa Cum Laude Brian Michael Burton, Marysville Kelli Ann Burwinkel, Hillsboro

Jenna Elizabeth Bush, Lima Summa Cum Laude

Claire Louise Butler, Van Wert Magna Cum Laude

Daphne Renee Cable, Hebron William Albert Cabral, Parkton, MD

Cum Laude

Ellie Nicole Cain, Covington Zachary Andrew Cain, Youngstown Maana Cum Laude

with Research Distinction in English

Haleigh Ashton Caldwell, Gallipolis William Walker Caldwell, Upper Arlington Sierra Lashe Calhoun, Brooklyn, NY Bailey Elizabeth Calicoat, Springfield Peter Thomas Callahan, Cohasset, MA Luz Elena Camacho, Chula Vista, CA Benjamin M. Campbell, Orient Cameron Frederick Canonico, Minerva Siran Cao, Wuhan, China

Mark Anthony Capehart, Jr., Reynoldsburg Teresa Julianne Cardenas, Xenia Magna Cum Laude

Brittany Leigh Cardoza, San Jose, CA Cum Laude

with Honors in the Arts and Sciences

Mary Elizabeth Carey, Worthington Rebecca Lynn Carleton, Columbus Kelly Carman, Freehold, NJ Cum Laude

Alyssa Carpenter, Columbus Demi Ryan Carr, Delaware Andrew Robert Carringer, Columbus

Lauren Frances Carroll, Lancaster, PA Rachel S. Carron, Trumbull, CT Cum Laude

John Mason Casey, Hilliard Olivia Marie Casimir, Pickerington Nya Korrin Cason, Steubenville McKenzie J. Casto, Westerville Heather Nicole Caudill, Fairfield Charles Edward Cayton, Thornville Magna Cum Laude

Jason Cole Chafin, Grove City Thomas David Chamberlain, New Albany Bethany Winans Chance, Trenton, NJ Cum Laude

Yun-Jhen Chang, Taichung, Taiwan Cum Laude

Leeneice Chapman, Cleveland Abbey Nicole Chappell, Bristol, WI

Magna Cum Laude with Honors in the Arts and Sciences Trenton Luke Charlson, Hilliard

Cum Laude

Swit Charoensuwan, Bangkok, Thailand Magna Cum Laude

Gar Devaux Chatain, Arkport, NY Therese Ann Chatfield, Novelty Summa Cum Laude

Nia Patricia Cheeseboro, Pittsburgh, PA Renjia Chen, Beijing, China Maana Cum Laud

Madeline Grace Chernosky, Westlake Claire Elizabeth Chilcoat, Worthington Grant Richard Childs, Cicero, IN Magna Cum Laude

Melissa Chime, Ann Arbor, MI Lauren Elyse Chivington, Westerville Summa Cum Laude

Yeji Choi, Busan, Korea Rachel Anne Chwalik, Delaware Dominic Francesco Ciano, Kent Amy Lynn Cilensek, Mentor Jacqueline Aleksandra Cilulko Fort Lauderdale, FL

Cum Laude

Isabel Louise Ciminello, Columbus Magna Cum Laude

Rose Camille Clager, Worthington Andrew Calvin Clark, Dublin Cara Madeline Clark, Beavercreek Maana Cum Laude

Dael Marshal Clark, Columbus Magna Cum Laude

Madison Rose Clark, Cincinnati Sean D. Clark, Bainbridge Briana Alice Irene Clemens, Clintonville Logan John Clendenin, Canton Nicholas Tyler Cobb, Medina Erica Lindsey Coffee, Kettering

Cum Laude Kayla Rose Coggburn, Westerville Madison Clarissa Cohorn, Cridersville Laura Audrey Cole, Castle Rock, CO

Guylaine Kolou Coletti, Conackry, Guinea Laura Grace Colleli, Columbus Paige Nicole Collingwood, Monroeville Christian Michael Curtis Collins, Akron Mackenzie Smith Compton, Youngstown Maana Cum Laude

with Honors in the Arts and Sciences

Lillian Claire Concannon, Cincinnati Cum Laude with Research Distinction in History

Renée Clarissa Concha, New Hyde Park, NY Cum Laude

with Honors in the Arts and Sciences

Abigail Elizabeth Conger, Columbus Damian G'Van Conglose, Norwalk Shane Patrick Connelly, Brunswick Quinn Victoria Connor, Cincinnati Cum Laude

Katherine Elaine Conroy, Allen, TX Magna Cum Laude with Research Distinction in Psychology

Qynn Margaret Cook, Columbus

Maana Cum Laude Morgan Elizabeth Cooley, Bay Village

Magna Cum Laude Michael Kenneth Coontz III. Diamond Cum Laude

Shayla Jonique Cooper, Birmingham, AL Katherine Rose Corbeil, North Royalton Summa Cum Laude

Aziza Marie Corbett, Westerville Cum Laude

Satara Lynn Corley, Columbus Katherine Kimberly Corrado, Cleveland Jane Emily Corwin, Cincinnati Brady Patrick Costigan, Akron

Paul Alexander Costinescu, Columbus Maana Cum Laude

Shane Joseph Coulter, Westerville Johnathon Daniel Couri, Columbus Rachel Leigh Cox, Gahanna Albert James Coyne, Frederick, MD Cum Laude

Ian Alexander Crabtree, Ada Kyrstin Brooke Cramer, Sarasota, FL Morgan Taylor Cramer, Nazareth, PA Emma Pauline Crane, Bexley Summa Cum Laude

with Honors in the Arts and Sciences

Tara Nicole Cravens, Cleves

Kelly Ann Cregar, Bainbridge Township Maana Cum Laude

Dustin Theodore Cremeans, Pataskala Cum Laude

Megan Marie Crevar, Aurora Cum Laude

Madison Crew, Springfield Julia Rose Crisenbery, Lebanon Magna Cum Laude

Jeffrey Gilbert Crock, Stow Nicholas James Crockett, Akron Maana Cum Laude

Emily Nora Crum, Rochester, NY

Magna Cum Laude Ziwei Cui, China

Kelsie Nicole Cummings, Winston-Salem, NC Keily Renae Cunningham, Marion Cum Laude

Justin Ronald Cygnor, Columbus Taylor Elizabeth D'Alelio, Archbold Suzanne Renee D'Avanzo, Mansfield Megan Mary Dailey, Findlay

Summa Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction in Linauistics

Kristen Lorraine Dammeyer, St. Marys Summa Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Chemistry Sheedeh Danesh, Dublin

Phanharith Dang, Columbus Natalie Marie Daniels, Oakwood Veronica Sue Dannemiller, Shelby Summa Cum Laude

Shane Marco Dantuono, Hackettstown, NJ Isabelle Rebecca Darling, Worthington Maana Cum Laude

Jhontay De'Waun Davenport, Springfield Jawan Xavier Davila-Love, Cleveland Erin Marie Davis, Columbus Gillian Morgan Davis, Flanders, NJ

with Research Distinction in Psychology Ian Quinn Davis, Columbus

Maana Cum Laude

Magna Cum Laua Imani Mekalah Davis, Wadsworth, IL Cum Laude

Monica Marie Davis, Cleveland Magna Cum Laude Cassidy Dawczak, Orland Park, IL

Brendan Robert Day, Cincinnati Kara Rochelle Day, Marion Leonardo Felice Carlos de Andrade,

Rio de Janeiro, Brazil Marco Ignacio Polo de Guzman, Fairfax, VA Belen de Leon, Montevideo, Uruguay Maana Cum Laude

Gabriella De Santis Esteban, Caracas, Venezuela Benjamin James Decker, Canton Dustin Grant Decot, Powell Victoria Anne Deibel, Powell Brian Arthur Deininger, Northfield Benjamin Logan Deitloff, Miamisburg Amanda Irene deJonge, Upper Sandusky

Riley Del Pinto, Lewis Center Gabrielle Marie Delanois, Schaumburg, IL Maana Cum Laude with Honors in the Arts and Sciences

Sofia Deligiannidis, North Marshfield, MA Jamie Paige DelliSanti, North Caldwell, NJ

Meagan Dembicky, Liberty Township Cum Laude

Danielle Marie DeMicco, Columbus Alexa Nicole Demyan, Powell Cum Laude

Joshua Michael Denner, Painesville Carrie Anne Dennis, New Albany Maana Cum Laude

Madeleine Denny, Alliance Summa Cum Laudi

with Honors in the Arts and Sciences Brian Richard DeNunzio, Pickerington Jordyn Christine Derham, Columbus Kevin Christopher Deye, Cincinnati Magna Cum Laude

Hugo Di Feo, Montreal, Canada Cum Laude

Marie Diamandis, Dix Hills, NY Cum Laude

Bailey Marie Diaz, Lorain Blake H. Dice. Powell Emily Nicole Dickerson, Granville Helen Ward Dietsch, Cincinnati

Kayleigh Elizabeth Dietz, Bexley Sarah Kathryne DiGiorgio, Centerville Maana Cum Laude

Caleb Dilsavor, Beavercreek Magna Cum Laude

Kelly Janet DiLullo, Hudson Maana Cum Laude Meggan Holli Dingus, Milford

Bethany Mir Dixon, Chillicothe Bret Bristol Dixon, Westerville

Duong Do, Westerville Eliana Margalit Dobres, Solon Summa Cum Laude

with Honors in the Arts and Sciences Amber Dock, Saratoga Springs, UT Magna Cum Laude

with Research Distinction in History Tessa Hope Dombi, Medina

Kaitlyn Marie Dominiak, Toledo Laura Doppler, Loveland

Clay Thomas Dorman, Obetz Justin William Dougherty, Newark Cum Laude

Mariah Jessica Douglas, Shaker Heights Olivia Grace Dowell, Delaware Magna Cum Laude

Jacob Patrick Dowling, Metamora MacKenzie Lee Downing, Belle Center Maana Cum Laude

Sierra Renee Downing, Columbus Jared Peter Drake, Westerville Paul Joseph Dreher, Hinckley Cum Laude

Nina Droege, Youngstown Nancy Cecilia Drouet Saltos, Guayaquil, Ecuador Yudi Du, Shanghai, China Muna Dualeh, Hilliard Arlia Marie Duarte, Poland Maana Cum Laude

with Honors in the Arts and Sciences Samuel Aaron Ducoff, Beachwood Jeni M. Dudley, Wichita, KS

Katelyn Jane Duemmel, Grove City Cassandra Marie Dula, Horsham, PA Maana Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in World Politics Shane M. Dumm, Lima
Cum Laude

Selina Delores Dunbar, Atlanta, GA Magna Cum Laude

Molly Eskilson Duncan, Carmel, IN Timothy Noah Duncan, Norwalk

Emma Yael Duncliffe, Lynbrook, NY
Magna Cum Laude

Zachary Ryan Dunham, Cincinnati Ethan P. Dunn, Solon

Jessica Adele Dunne, O'Fallon, MO Brock Adam DuPont, Hilliard Tiffani Marie DuScheid, Dublin Manna Cum Laude

Molly Elizabeth Dye, Washington Court House Kaylea Irene Dykes, Mason Kelly Nichole Earman, Powell

Robert Louis Ebright II, Columbus William Coit Edison IV, Loveland Cum Laude

Alison Edwards, Westerville Samantha Edwards, Dublin Cum Laude

Samantha Jenean Egbert, Russells Point Magna Cum Laude

Johanne Egeland, Hudson Cum Laude

Jordan Lamar Eleby, Westerville Alaina Nicole Eleyet, Lewis Center Summa Cum Laude

Rachel Kathleen Ellenberger, Canal Fulton

Cum Laude

Andrew Elliott, Columbus Rachel Irene Elliott, Beech Grove, IN

Cum Laude
Christian Blake Ellis, Mason
Grace Erin Ellis, Naperville, IL

Chello Mohamed Elmi, Falls Church, VA Jordan Lennon Emans, Rosedale Magna Cum Laude

Ashley Mae Emanuel, Chippewa, PA Scott Lynn Emmick, Horseheads, NY

Samantha Katherine Emrich, St. Charles, MO

Rachel Olivia Engel, Melbourne, Australia

Lauren Farlow Epcke, Cincinnati Hanna Mae Erickson, Rockford, IL Edriane F. Ernie, Dublin Abigail Lee Ernst, Edmonds, WA Mayra Alexandra Espinoza Aquije, Columbus Lindsey Anne Essaff, Gilford, NH

Leah Rose Evans, Lebanon
Tiffany Marie Evans, Ironton
Frank Joesph Evers, Burton
Logan Joseph Fadeley, Hopedale
Tonijah Meshae Fairly, Lorain
Steven P. Falov, Moon Township, PA
Ashton Nicole Farabaugh, Westerville
Albby Alexis Farber, Minerva
Joseph O'Sullivan Farchione, Cleveland
Ann Marie Faris, New Vienna
Kenneth Michael Farmer, Hudson
Monan Cum Londe

Lauren Nicole Faron, Brecksville Joel Easton Fehrman, Marysville Julia Anne Feldman, Cleveland Summa Cum Laude

Megan Feltham, Fort Mill, SC Kaylee Anne Ferguson, Strongsville Molly Jin Ferguson, Lake Orion, MI Andrea Marie Ferree, Piqua Kaci Kay Ferrelli, Columbus Kelli Kay Ferrelli, Columbus Natalie Lynn Ferris, Grandview Heights Joshua Alexander Fetter, Cary, NC Harrison Reid Fillmore, Columbus

with Research Distinction

Cum Laude

Brittany Nicole Finch, Hamilton

Delaney Brianne Fiorito, Prospect Heights, IL Brent Alan Firsich, Warren Urs Stefan Fischer, Zurich, Switzerland Jonathan Dean Fissel, Jr., Kenton Kaitlyn Jean Fitzthum, Toledo Griffin Flais, Columbus

Michael Andrew Flores, Dallas, TX Matthew Thomas Fluhart, Grove City Abdoulaye Fofana, Conakry, Guinea Cum Laude

Margaret Mary Foley, Grove City
Summa Cum Laude

Katrina Folk, Cuyahoga Falls Olivia Grace Folzenlogen, Cincinnati Felicia Paige Fontanetta, Syosset, NY Cum Laude

Paige Leann Forman, Kettering Casey Ann Fortney, Coshocton Cum Laude

Sydney Nicholle Foulks, Chicago, IL Logan Allen Fout, Clarksburg Abigail Leigh Fox, New Albany Magna Cum Laude

Patricia Marie Fox, Columbus Rebecca Lynn Fox, Reynoldsburg Alex Nicole Franken, Dublin Aaron Scott Fraser, Lewis Center SherylAnn Joan Fraser, Gahanna Jordan Andrew Freed, Arlington Manan Cunt Joule

Scott David Freeman, Lima
Magna Cum Laude

Frederick Joseph Freibott, Wilmington, DE

Magna Cum Laude Brian Patrick French, Delaware Mary Lou French, Williamsport

Cum Loude
Anne LaRue Frentsos, Potomac, MD
Matthew Jordan Fritz, Columbus
Natalie Ann Fritz, Powell

Amira Hasina Fruits, Cleveland

Cum Laude

Victoria Fuentes, Hoffman Estates, IL

Cum Laude

Claudia Abigail Fugate, Marion Christopher Robert Fulcher, Columbus Madlin Anne Fulger, Norwalk David Wilhelm Fuller, Reynoldsburg David Wyatt Galehouse, Akron Cameron Jacob Gall, Worthington Bailey Ann Gallagher, Medina Magna Cum Loude

John Patrick Gallagher, Cleveland William John Gallagher, Bellbrook Amanda Katherine Gallof, Cincinnati Emiley Eleonore Hunt Gammella, Brook Park

Cum Laude

lan Gammon, Lexington, NC
Magna Cum Laude

Timothy Jack Gandley, Baldwin, NY Stephanie Marie Ganoe, Randolph Zachery A. Gaon, Los Angeles, CA Armando Garcia, Jr., Columbus Chelsy Garcia, Liberty Township Adam Scott Garfunkel, Cleveland Kelsi Breann Garibay, Cincinnati Kathryn Grace Garner, Columbus Auston D. Garrett, Columbus Melissa Leigh Garvic, Tipp City

Summa Cum Laude Allison Gasuik, Buffalo, NY Laken Gates, Jacksontown Rebecca Lynn Gavin, Gahanna Rachel Lynn Gaylord, Brunswick Manna Cum Laude

Erica Gbur, Clifton, NJ Magna Cum Laude

with Honors in the Arts and Sciences Baylee Rose Gearhart, Edon

Magna Cum Loude

Michaela Joan Gennuso, Eden Valley, PA
Peter Georgeff, Columbus
Daryn Gerson, Fairfield, CT
Jonathan Farag Giannoutsos, Bexley
Jessica Renee Giannuzzi, Noblesville, IN
Thomas Rodney Gibbs, Delaware
Amanda Gibson, Euclid
Emily Jayne Gibson, Andover, MA
Tristyn Alexandra Gies, Bucyrus
David Alexander Gieske, Cincinnati
Jeffrey Lee Gieske, Dublin
Allison Kay Gill, Gahanna
Remington Jordan Gilliland, Dublin

Courtney Lynn Gittins, New Albany Alyson Glick, Jackson, NJ Colin A. Gloudemans, Middleton, WI Magna Cum Laude

Brandon Micheal Gobrecht, Bucyrus Robert Evan Goldberg, Cleveland Joshua Michael Goldberger, Baltimore, MD Sarah Rose Goldenberg, Loveland Magna Cum Loude

Alanna Jean Goldie, Calgary, Canada Joanna Lynn Goldstein, Fort Thomas, KY Yannick Sokoury Gollo, Pasadena, CA Charlotte West Golnik, Cincinnati

Allison Marie Gonzalez, Mundelein, IL Cum Laude

Joshua Timothy Good, Colorado Springs, CO Jaime Goode, Seaford, NY Magna Cum Laude

Samantha Renee Goode, Columbia Station Madeline Jo Goodwin, Worthington

McKaila Renee Goodwin, Newcomerstown Kavya Gopalakrishnan, Chennai, India Cum Laude

Annabelle Jane Gordon, Cincinnati
Cum Laude

with Honors in the Arts and Sciences
Jessica Ann Gorman, Columbus
Conner Drewe Gossel, Beavercreek
Paul Henry Gould, Washington, DC
Edward Andrew Govang, Twinsburg
Alec James Gowitzka, Mansfield
Sandra Patricia Goya Herrera, Hilliard

Carla Gracia, Schaumburg, IL Cum Laude

Louis Charles Graeter IV, Madeira Summa Cum Laude with Honors in the Arts and Sciences

Samantha Nicole Grande, Rockville Centre, NY Cum Laude

Melvin James Gravely III, Cincinnati Emily Ann Gray, Columbus Richard Woodrow Gray, Westerville Kassandra Rose Graziani, Washington, MI Robert Williams Green, Hattiesburg, MS Corey Payton Greenblat, Atlanta, GA Cum Loude

Alexis Anne Greene, Rockville, MD Morgan Elizabeth Greenlee, Hilliard Noell Mae Greenlee, Mount Sterling Magna Cum Laude

Connor Greenwood, Sagamore Hills Summa Cum Laude

Melvin Dorsey Gregory III, Youngstown Leah Catherine Greiner, Cincinnati Cum Laude

with Honors in the Arts and Sciences

Patrick Tate Greuling, Worthington Rachel Kathryn Griggs, Spring, TX Magna Cum Laude

with Honors in the Arts and Sciences

Gabrielle Elizabeth Grose, Portsmouth

Cum Laude

Makayla Rachelle Grover, Fort Recovery Roseanna Maria Groves, Lakeland, FL Cum Laude

with Honors in the Arts and Sciences
Emma Grace Grubaugh, Bay Village

Hayley Avanell Guest, Fishers, IN

Cum Laude

Eleanor Christine Gulick, Marietta Eric Gundelfinger, Lancaster Summa Cum Laude

Angel Guo, Kilford Magna Cum Laude

Samantha Anne Gyekenyesi, Strongsville Nicole Marie Haddad, Westlake

Nicole Marie Haddad, We Summa Cum Laude

Kallen Mackensey Haddox, Zanesville Magna Cum Laude

Laura Felicia Hagy, Columbus William John Haines, Rancho Santa Margarita, CA Alexandra Shea Hale, McArthur Maana Cum Laude

Brittany Nicole Halstead, Wadsworth Rian Awad Hamadnalla, Philadelphia, PA Morgan Elise Hamet, Mason Rebecca Hamner, Nelsonville Yoo Hwa Han, Busan, Korea Hayden Graham Hanson, Cleveland Mogno Cum Loude

Kevin Sullivan Hargrave, Herndon, VA
Summa Cum Laude

Evan Andrew Harrell, Hilliard Collin James Harrington, Fairview Park Austin Bayley Harris, Delaware Howard Fletcher Harris, Columbus Khari Anthony Harris, Cincinnati Alexa Nicole Hart, Cleveland Bryce Daniel Hart, Newark

Magna Cum Laude Kennedy Elise Hart, Maineville Samuel Todd Hart, Warsaw Kathleen M. Harter, Blacklick Matthew James Hartshorn Newark Summa Cum Laude

with Honors in the Arts and Sciences

Benjamin Graham Harvey, Chardon with Research Distinction in History

Eleanor Grace Harvey, Hamilton, Canada Magna Cum Laude

Logan William Harvey, Sidney Kyra Nicole Hassler, Scarsdale, NY Cum Laude

Andrew David Hater, Douglasville, GA Cum Laude

Philip William Hathcock, Olmsted Falls Winfield Scott Hawthorn, Bethel Stephanie R. Hayden, Logan Magna Cum Laude

Hayden Douglas Hayes, Zanesville Summa Cum Laude

Kelli Montana Haves, Oregonia Thomas James Hayworth, Sharonville Cum Laude

Blake Burton Hazelbaker, Portsmouth Peter Ford Healey, Pepper Pike Maana Cum Laude

Mike Timothy Hearty, Akron Matthew James Heath, South Elgin, IL Thomas Carlton Heffelfinger, Piqua Holli Nichole Heffner, Columbus Chloe Nicole Heins, Sidney Summa Cum Laude

Kayla Marie Helleis, Rocky River Meg McGuire Heller, Columbus Mitchell Heller, Cleveland Nicole Lynn Henry, Akron Rachael J. Herman, Columbus Elizabeth Hernandez, Powell Miguel Ramon Millonte Hernandez,

Parañague, Philippines Marianna Del Valle Hernandez Brandi,

Kyle John Herschel, New Philadelphia Aisha Ahmed Hersi, Columbus Sage Riley Herzberg, New Albany Suzanna Marie Hete, Clarksville Joshua Cody Higgins, Steubenville Samantha Jude Higgins, Cincinnati Cum Laude

Anne Caroline Hilditch, Hilliard Emily Hildreth, Syracuse, NY

Mickaela Jean Hill, Canton Chelsea Jo Hilty, Pickerington Christian Hilty, Wooster Rebekah Anne Hiltz, Powell Rachel Elizabeth Hisey, Kettering Umar Shafig Bin Hisham,

Kuala Lumpur, Malaysia Cum Laude

Hannah Karrisa Hites, Fairport Harbor Matthew Joseph Hobbs, Dayton Rebecca Joanne Hobbs, Lodi Samuel Thomas Hodge, Mason Cum Laude

Denisa Hodzic, Columbus Madisson Mackenzie Hoelzer, Sandusky Kai Balke Hoffman, Annapolis, MD William Chandler Hoffman, Cincinnati Kaitlyn Melissa Hofland, Toronto, Canada Juan Andres Hofmann, Brookpark Benjamin Jacob Hohman, Cleveland John Patrick Holden, Dublin Keegan Joseph Holland, Willoughby

Nicole Juliet Hollis Cleveland Cum Laude

Leah Nicole Holmberg, Powell

Christina Evangelia Holmes, Blacklick Christa Jean Holt, Lakeview

Malerie Anne Holte, Beavercreek

Cum Laude

Maana Cum Laude with Honors in the Arts and Sciences

with Honors Research Distinction in English

Deborah Jeannette Homola, Marengo Maana Cum Laude

Cameron Michael Hood, Upper Arlington Arielle Chelsey Hooks, Akron

Magna Cum Laude with Research Distinction in African American and

Jeffrey Jason Scott Hooper II, Canal Fulton Summa Cum Laude

Lauren Brooke Hopkins, McArthur Katherine Irene Horne, Pickerington Matthias Francis Hornung, Warren Christyne Renee Horton, Columbus Summa Cum Laude

Andrew Michael Hosler, Wexford, PA Summa Cum Laude Logan Frederick Householder, Lewis Center

Maana Cum Laude with Research Distinction in English

Anna Celeste Houston, Columbia, MO Christina Kay Howald, North Canton Summa Cum Laude

with Honors in the Arts and Sciences

Chelsea Rosemarie Howard, Camden Devany Howard, Athens Magna Cum Laude

Andrea Elizabeth Howell, Columbus Maana Cum Laude

Marissa Taylor Howell, Dayton Morgan Margaret Hoy, Hudson Benjamin Arce Hoyt, Worthington Joe Leo Hozian, Kirtland Adam John Hribar, Brunswick Maana Cum Laude

Michelle Elaine Hricovsky, Cincinnati Magna Cum Laude

Gregory Edward Hriczo, Parma Joye Hsiang, Piqua

Harrison Zhao Huang, Brooklyn, NY Cum Laude

Hongmin Huang, Ganzhou, China Cum Laude

Wenjia Huang, Shenzhen, China Yuchen Huang, Chongquing, China

Kathleen Alyssa Hudak, Nazareth, PA Jessica Lynn Hudson, Mansfield Katelyn Élise Huffman, Weston Magna Cum Laude

Corinne Paige Hughes, Prince Frederick Madeleine Celeste Humphrey, Virginia Beach, VA

Leah Eileen Hungerman, Pittsburgh, PA Maana Cum Laude

Samuel Vitale Huryn, Cuyahoga Falls Magna Cum Laude

Amjad Naser Hussein, Pickerington Kia Hutchens, O'Fallon, IL

Rachel Madelyn Hutchinson, Dayton Cum Laude

Santierra Hutson, Columbus Carly Lauren Hyder, Westerville

Mikavla Ahveon In, Hilliard Natalie Catherine Iredale, Cincinnati Ella May Isaacson, Marlborough, MA Nabiha Islam, Dayton Summa Cum Laud

Uchenna Regina Itanvi, Columbus Michael Reed Ittu, Rocky River Magna Cum Laude

Amber Jackson, Cleveland Heights Andrew Nelson Jackson, Mount Gilead Brandon Michael Jackson, Cardington Cameron Keith Jackson, Jr., Houston, TX Cum Laude

Jara Ronnie Young Jacobson, Plainview, NY Magna Cum Laua

Seth Nathaniel Jacobus, Johnstown Summa Cum Laude

Roy Tyrone James II, Cleveland ShaKoya Ka'Brianna James, Fayetteville, NC Jacquelyn Sarah Jarachovic, North Olmsted Maana Cum Laude

Austi Montana Jasinski, Medina Cum Laude

Morgan Kaylee Jenkins, Canal Winchester

Jiaxing Ji, Xi'an, China Tianchi Jiang, Shenyang, China Ricardo Antonio Jimenez, Columbus Brian Youngmin Jo, Columbus Ericka Monique Johns, Lorain Magna Cum Laude

Abigail Marie Johnson, Cincinnati Maana Cum Laude

Isabel Kerry Johnson, Columbus Zachary Thomas Johnson, Hilliard with Research Distinction in English Savannah Joy Johnston, Wooster

Brad M. Jones, Gambier Danielle May Jones, Bellefontaine Lily Morgan Jones, Baltimore, MD Cum Laude

Paris Louis Jones, Tallahassee, FL Sorpresa Shawntrese Jones, Columbus Austin Blake Josapak, Pittsburgh, PA Sean C. Joseph, North Royalton Magna Cum Laude

Matthew Eugene Joyaux, Bloomingdale, IL Jakeline Juarez, Akron Cum Laude

Laura Anne Juberg, Indianapolis, IN Showlin Kabir, Comilla, Bangladesh Natasha Kachirisky, San Diego, CA Cum Laude

Ed Joseph Kaiser II, Tallmadge Shekinah Glory Kaiser, New Albany, IN Alex Gregory Kalustian, Martinez, CA Morgan Leann Kamins, Lake Zurich, IL Cum Laude

Surva Kapil, Indianapolis, IN Michael Harrison Stern Kaplan, Galena Joseph Martin Kaplun, Jr., Clark, NJ Julia Reid Karajeh, Oak Forest, IL with Honors in the Arts and Sciences

Stephanie Nicole Karnes, Mansfield SriSivaa VaniDevi Karri, Mason Salah Mohamad Kashkeesh, Chicago, IL

McKenna Karen Kasper, Cleveland Christian Kaleab Kassahun, Reynoldsburg Samantha Anne Katz, Moreland Hills Summa Cum Laude

Gaganpreet Kaur, Westlake Christine Elizabeth Kausel, Hilliard Maana Cum Laude

Kayla Lynn Keener, Chillicothe Kristina Marie Kelley, Sandusky Ryan Patrick Kelly, Long Beach, NY Amy Elisabeth Kennedy, Vandalia Madison Nichole Kenney, Newcomerstown Magna Cum Laude

Matthew Hanson Kerr, Marysville Summa Cum Lauc

Aisha Yasmeen Keshk, Columbus Michael Chase Key, Norfolk, VA Sazeed Khan, Dhaka, Bangladesh Franchesica Lashelle Kidd, Newark with Research Distinction in Hi

Breanna Casev Kiefer, Copley Janelle Denise Kiker, Toledo Maana Cum Laude

Kaile Ann Kilner, Wooster Summa Cum I au

Dalton Levi Kincaid, Stockport Maana Cum Laude

Georgia Emily Kinch, Hamilton Cum Laude

Erin Grace Kinkley, St. Marys Maana Cum Laude

Eric Benjamin Kinsley, Columbus Sophia B. Kiselova-Sammons, Columbus Rachel Dora Kitay, Solon Alonna B. Kleckley, Columbus Melissa Dara Klein, Syosset, NY Mikavla Grace Klein, Lancaster, PA Maana Cum Laude

Elizabeth Anne Kleinhenz, Wooster Summa Cum Laude

John Louis Klenke, Kettering Shelby Christine Kneipp, Cardington Melanie Alexa Knight, Bridgeport Maana Cum Laude

Nathaniel Knight III, Miami, FL Magna Cum Laude

KavMesha Dvantha Knox, Columbus Nicole Elizabeth Koch, Wexford, PA Natalie Lynn Koeritzer, Delaware Cum Laude

Abby Marie Kohlbacher, Shanghai, China Samantha Rochelle Kohlhorst, St. Petersburg, FL

Summa Cum Laude

with Research Distinction in English

Dominique Akeem Kollie, Toledo Sharon Osei Konadu, Newark, NJ Sydney Nicole Kondas, Columbus Dmitri George Konton, Bolingbrook, IL Kailey Lynette Kopus, West Liberty Kevin Alexander Korczyk, Perrysburg

Michelle Jeri Kostyack, Westfield, NJ Cum Laude

Sheena Kothari, Cincinnati Justin Joseph Koty, Medina

Nicole Marie Kozlowski, Sterling Heights, MI Maana Cum Laude

with Honors in the Arts and Sciences

Daniel Croft Krajnak, Columbus with Honors in the Arts and Sciences

Hannah Jillian Kraus, Solon Maana Cum Laude

Sadie Layne Krautwater, London

Summa Cum Laude Darryl Margaret Kreutz, Canal Winchester Kelly Krier, Dublin Sarah Elizabeth Krinsky, Mansfield Brittany Nicole Kroeger, Lima Avesha Krovi, Akron Michelle Saneda Kryc, Powell Maana Cum Laude Kevin Kuang, Cleveland Katherine Elizabeth Kurnick, Strongsville Aidan Robert Kurtz, Toledo Evan Danielle Kutz, Kansas City, MO Jason Oh Kwon, Los Angeles, CA Lauren Susan Ladd, New Riegel Brittany Claire Lally, Aurora Maana Cum Laude Kevin Lam, Columbus Morgan Lee Lamar, Cleveland Kuranda Zoe Carmel LaMay, Boise, ID Summa Cum Laude with Honors in the Arts and Sciences Alexandria Kristine LaMere, St. Michael, MN Douglas Anthony Lamont, Douglassville, PA Breanna Lee Lampron, Pataskala Cum Laude Elle Gayle Lance, Cincinnati

Kyle Noelle Krawczyk, Norton

Cynthia Kay Larger, Fort Loramie Maana Cum Laude Mark David Larson, Lititz, PA Summa Cum Laude Michael Lautner, Louisville Jamie Renae LaVigne, Akron Victoria Law, Los Angeles, CA Sydney Sue Lawson, Napoleon

Elliott Joseph Lang, Cincinnati

Tyler Lee Langenfeld, Massillon

Johana Langova, Brno, Czech Republic

Cum Laude

Charles Ashworth Leavitt V, Sunbury Summa Cum Laud

Jae Hoo Lee, Columbus Sharon Minji Lee, Dublin Cum Laude

Zoe Margaret Legato, Nashville, TN Summa Cum Laua

Alissa Nicole Leist, Westerville Kimberly Marie Lemon, Pataskala

Summa Cum Laude with Research Distinction in Fnalish

Cheyenne Lenhart, Arcadia Maana Cum Laude

Jalen Lentz, Columbus

Brooke Alexis Leon, Lewis Center Summa Cum Laude

Nicolette Leon Powell Summa Cum Laude

with Research Distinction in Spanish Miranda Lee Lerner, Columbus Lance Eugene Leslie III, Worthington Maxwell Leu, Vero Beach, FL

Jared Alexander Levine, Columbus Kayley Lena Lew, Melbourne, FL Magna Cum Laude

Brittany Erin Lewis, Utica Natazia Lewis, Maple Heights Patrick Michael Leyshon, London Brian Li. Columbus

Cum Laude with Honors in the Arts and Sciences Cheng Li, Beijing, China Lu Li, Taiyuan, Shanxi, China

Lun Li, Changchun, China Candace Emma Lincoln, Moreland Hills

Akil Kamau-Renard Lindsay, Delaware Corey Lipkins, Jr., Canton vith Distinction in Theatre

Zachary Tyler Lippman, Potomac, MD Summa Cum Laude

Chengjia Liu, Sichuan, China

with Honors in the Arts and Sciences with Honors Research Distinction in Political Science

Cum Laude Jiaqi Liu, Beijing, China Yao Liu, Yichang, China Yao-Yu Liu, Cincinnati Zehui Liu. Shenzhen, China Joshua Matthew Lochiatto, Cumberland Jessica Michelle Long, Columbus Vanessa Jean Lonigro, Collins Nathan Richard Loos, New Albany Sean Francis Lowe, Westlake Robert David Lowery, Solon

Maana Cum Laude Mitchell William Luallen, Upper Arlington Magna Cum Laude

Amanda Marie Lucas, Lima Erin Christina Lucas, Salem, CT Cum Laude

John Vincent Luongo, Marlboro, NJ Rafael Brandao Lupidi, San Francisco, CA Rachel Nicole Lusher, Elyria Summa Cum Laude

Spencer Lutz, Fishers, IN Maana Cum Laude

Gabrielle Ryann Lyle, Delaware Magna Cum Laude with Research Distinction

Yifei Ma, Handan, China Alexandria Grace Maddox, Hilliard Winnona Cheyenne Maddrey, Columbus Cum Laude

Mason Douglas Madeline, Stafford, VA Emma-Li Joan Mahall, Bay Village Cum Laude

Melissa Marita Mahan, Miamisburg Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Anthropology

Daniel Maharg, Columbus Nisha Maheshwari, Cleveland Scott Mahoney, Canton Morgan Nicole Mahr, New Albany

Jordan Marie Maier, Cincinnati Summa Cum Laude

with Honors in the Arts and Sciences Ronald Steven Mancini, Jr., Cincinnati Delaney Margaret Mandel, Columbus Maana Cum Laude

Zackary Dean Mangold, Dayton Alexander David Manifold, Hilliard Leslie Ann Marcum, Cincinnati Haley Jordan Marks, Delaware Angelique Emyle Marquina, Miami, FL Alexander Wells Marquis, Dayton Luke Paul Rockne Marsco, Youngstown Joshua Bradley Marsh, Marysville Maana Cum Laude

Kristen Marie Marsh, Snellville, GA Basia Sophia Marshall, Byesville

Cody Aaron Marshall, Dublin Cum Laude

Matthew Angelo Martello, Steubenville Summa Cum Laude

with Research Distinction in English Johnathan Edward Martin, Parma Magna Cum Laude

Kelsi Cheyenne Martin, Montpelier Laura Ashley Martin, Hilliard Tyler S. Martin, Olmsted Falls Briana Alexis Mason, Lima Lauren Durden Mason, Upper Arlington Justin Richard Mast, Stow Maana Cum Laudi

Noah James Mastruserio, Cincinnati Magna Cum Laude with Research Distinction in English

Donald Frank Matejka, Jr., Brooklyn Cum Laude Cody Michael Mathew, Kalida Megan Marie Mathews, Englewood

Hailey Jean Mattes, Columbus Maana Cum Laude Molly Suzanne Matthews, Loveland

Summa Cum Laude Jordan Rain Matthiass, Circleville Cum Laude

Ganeev Singh Mattu, Centerville Julia Eileen Mawby, Cleveland Magna Cum Laude

Emma Grace Maxwell, Canal Winchester Cum Laude

Jordan Leslie Mazer, Powell Jennie Elizabeth McAndrew, Austintown Summa Cum Laude

Sean Anthony McCann, Chagrin Falls Cum Laude

Kayleigh Marie McCarthy, Dublin Katherine Marjorie McCauley, Hartville Magan Lynn McClurg, Troy Maana Cum Laude

with Research Distinction in Speech and Hearing

Gregory Galen McCollum, Liberty Township Summa Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in History

Declan Patrick McCord, Columbus Maana Cum Laudi

Carly Maye McCormack, Wooster Mackenzie Taylor McCort, Powell Summa Cum Laude

Caitlyn C. McCroskey, Reynoldsburg Shaine Matthew McDaniel, Wapakoneta Brooklyn MaShell McDaniels, Canton

Megan Jane McDonald, Mishawaka, IN Mariah Quinn McDougle, Oregon Matthew McGahan, Mason

Magna Cum Laude Jenna Claire McGee, Mentor Scott Alan McGiffin, Bainbridge Maana Cum Laude

Abigail Nash McGonagle, Granville Everett Scott McGregor, Richfield

Alyssa McIntyre, Steubenville Maana Cum Laude

Hannah Noelle McKenzie, Pataskala Magna Cum Laude

Hayley Grace McKinley, Groveport

Naketa Rae McKinney, Toledo Dexter Norton McNabb, Westerville

Brooke Elise McNerny, Cincinnati Jesse Andrew McReynolds, Springboro Madelyn Kate McSweeney, Avon Samantha Grace Meanor, Columbus Summa Cum Laude

Laura Cristina Medina, Bergenfield, NJ Tyler James Meeker, Cridersville Milauni Mehta, Princeton, NJ with Research Distinction in Chemistry

Philip Christopher Meil-Johnson, Cleveland Heights

Makenna Leigh Mezget, Painesville Maana Cum Laude

Jennifer Lynn Michaud, Brecksville Haley Melinda Micsak, Avon Lake Maana Cum Laude

McKenzie Paige Middendorf, Fort Loramie Deja Miguest, Chicago, IL Magna Cum Laude

Addison Cole Miller, Millersburg Summa Cum Laude

Blake Alexander Miller, Crestline Cum Laude

Cassandra Marie Miller, Carmel, IN Chelsea Chantel Miller, Oregon

Jordan Andrew Miller, Orlando, FL Kayley Morgan Miller, Crestline Madison Grace Miller, Centerville Nathanael James Miller, Chardon Nicholas Andrew Miller, Columbus Nichole Beaudry Miller, Avon Lake Robyn Ann Miller, Beach City Summa Cum Laude

Taylor David Miller, Hartville Eliana Mitchell, Beachwood Emily Catherine Mitchell, Severn, MD Alexander M. Mizarek, Columbus Andreas Joseph Moghimi-Danesh, Los Angeles, CA Magna Cum Laude

Kassim Mohamed, Columbus Colby Thomas Monachino, Wilton, CT Elizabeth Hilda Montenegro, Shaker Heights Summa Cum Laude

with Honors in the Arts and Sciences

Mariela Monzalvo, Columbus Summa Cum Laude

William Ernest Moodie, Marion Summa Cum Laude

Alani Kathleen Moore, Chillicothe Cum Laude

Ashley Danielle Moore, Fayetteville Bryan Michael Moore, Strongsville Christa Sharmain Moore, Ada Jessica Nicole Moore, Pataskala Magna Cum Laude

Marisa Rose Moore, Columbus Seamus Moore, Upper Arlington Sydney Lynn Moore, Columbus Magna Cum Laude

Alaina Nicole Morakis, Youngstown Danielle Marie Morehead, Pickerington Caira Egypt Moreira-Brown, New York, NY Matthew Wayne Moretto, Medina Benjamin Christopher Morgan, Columbus

Erin Kathleen Morgan, Twinsburg

Molly Rose Morgan, Cincinnati

Reagan Leigh Morman, Bowling Green Carlo Antonio Mormina, Sandusky Cum Laude

Robert Thomas Morock, Jr., Columbus Kyle James Moroney, Fairview Park Brianna T. Morris, Pataskala Bradly Arnold Morse, Columbus Emily Nicole Mosca, Gahanna Cum Loude

Benjamin G. Moser, Columbus Janik Luca Moser, Mannheim, Germany Michael Mosholder, Tallmadge Magna Cum Laude

Hannah Grace Shaheen Mosiniak, Toledo

Arona Miriam Mostov, Youngstown Magna Cum Laude

Emma Elizabeth Mote, Kettering Griffin Michael Mouty, Cincinnati Ellie Jean Mruzek, Waterville Cum Laude

Batool Amin Mubarak, Canal Winchester Abby Kathryn Mueller, Broadview Heights Kurt Alan Mueller, Dublin Michael Douglas Muffler, Fremont Ross Walker Mulholland, Winthrop, MA Carlos Luis Muller, Columbus Yididya Kibru Mulugeta, Addis Ababa, Ethiopia Ian Burke Mulvey, Jr., Granville

Andrea Marie Murch, Hilliard Michelle Margaret Murnane, Columbus Ryan Patrick Murphy, Akron Ian Allister Murray, Woodbridge, VA

Cum Laude
John Patrick Murray, Fredon, NJ
William Michael Murray, Trotwood

Megan Elizabeth Musachio, Massapequa, NY
Cum Laude
Darsheed Nasser Mustafa, East Cleveland

Cum Laude with Research Distinction in Chemistry Alexis Nicole Myers, Youngstown

Adrienne Marie Myton, Dayton James Denton Nagle, Harding, NJ Michelle Frances Nagy, Aurora, IL Maana Cum Laude

Momota Nahar, Columbus Santa Ivette Narvaez, Columbus Alex Joseph Nathans, Granville Katherine Jewel Nauseda, Columbus Abou Ndiaye, Columbus Ezequiel Daniel Negron, Lorain

Cum Laude
Jordan Timothy Neighbarger, Columbus
Isabelle Marie Nejedlik, Shaker Heights

Magna Cum Laude Abigail Nelson, Hudson Cum Laude

Anita Shamika Nelson, Cleveland Rachel Rae Nelson, Reno, NV

Debbie Shanna Neo, Hartville Courtney P. Neuenschwander, Van Wert Alyssa Brook Neville, Wintersville

Magna Cum Laude
Abrielle Renee Newman, Perrysburg

Andrew William Newman, Napa, CA Regina Susan Newsad, Washington Cum Laude

Reagan Ashley Ney, Farmersville

Lily Ng, New Albany Summa Cum Laude

Viet Xuan Nguyen, Columbus Yixuan Ni, Nanjing, China Beau Michael Nickley, Beavercreek Madeline Marie Nicol, Marysville

Magna Cum Laude with Research Distinction in Psychology

Sandra Marie Niehaus, Cincinnati Colette Bonita Niemiec, Westerville Caitlin Elizabeth Nieset, Cleveland Kayla Marie Nist, Green

Kiley Anne Nolan, Lauderdale By The Sea, FL Magna Cum Laude

Luther Bishop Nolan, Maple Heights Ryan Noonan, Rochester, NY Christopher Michael Norrod, Chicago, IL Cum Laude

Judith Francis Norton, Olmsted Falls Kimberly Kay Norton, Valdosta, GA

Essa Nuaman, Kuwait Rebecca Marie Nunemaker, Olmsted Falls Maana Cum Laude

Ensilda Nuredini, Cleveland Ncebazikamdali Ngangomhlaba Nyoni, Columbus

Julianna Elizabeth O'Brien, Delaware
Cum Laude

Rachel M. O'Brien, Avon
Erin Marie O'Connell, Potomac, MD
Corinne Kelly O'Connor, Wantagh, NY
Mark Robert O'Connor, Wason
Timothy Bernard O'Connor III, Chicago, IL
Padraig Alexander O'Halloran, Columbus
Michael O'Keefe, Columbus
Colleen Erin O'Malley, Mentor
Summo Cum Cunter
Summo Cunter
Su

Chelsea Katelynn O'Neal, Miamisburg Jeffery Joseph Oberdick, Martins Ferry Morgan Makana Oberweiser, Zionsville, IN Erica Joan Oesterlin, Springboro Andrea Kyung Oh, Mason

Magna Cum Laude
Brian Oh, Glastonbury, CT
Shelby Quinn Oldroyd, North Canton
Summa Cum Laude
with Hongrs in the 4ts and Sciences

Noah Borys Oliver, Clintonville Emily Elizabeth Olson, Perrysburg Zane Michael Omler, Hillsboro Jessica Onate, Marion

Emmanuela Oppong, Columbus John Joseph Oreskovich IV, Lewis Center Magna Cum Laude

Joseph Michael Otworth, Hillsboro Daniela Ouro, Red Hook, NY Blake Andrew Owens, Newark Alessandra Michelle Painter, Piqua Cum Laude

Ryan Mark Palko, Cleveland

DeMario Imas Palladino, South Point Yamini Panagari, Herndon, PA Kruti Hitesh Pandya, Columbus Nicole Erin Parks, Ridgewood, NJ Elise Lauren Parziale, Lebanon Cum Laude

Rina Patel, Skokie, IL Ian Mackenzie Pelfrey, Shaker Heights with Research Distinction in Biochemistry Meilenys Idbel Peraza, Cleveland Summa Cum Laude

David Ross Perkins, Dublin Rory Scott Perlman, Cincinnati Catherine Amanda Perry, Toledo

Lindsee Madison Perry, Bellaire
Summa Cum Laude

Benjamin Edward Perryman, Westerville Dominic Nicholas Pestello, Broadview Heights Emily Jane Peszlen, Gahanna Ryan Edward Petrae, Misawa, Japan Ellen Elizabeth Petulla, Mount Gilead Kaithyn Phillips, Springboro Madison Alexis Phillips, Stronosville

Magna Cum Laude

Marissa Emma Grace Phillips,
Charlottesville, VA
Sarah Marie Phillips, Alexandria
Taylor Jo Phillips, New Philadelphia
Cum Laude

Dinh The Phung, Columbus
Vinh The Phung, Columbus
David Piatt, Portsmouth
Inali Pichardo, Cleveland
Anthony Joseph Pickens, Prospect
Victoria Lynne Pickworth, Lansing, MI
Wesley David Piehl, Columbus
Com Londe

Avery Kay Pierson, Gahanna Magna Cum Laude

Jessica Rose Pierson, Perrysburg Alexandra Frieda Pilossoph, Pittsburgh, PA Magna Cum Laude

Andrea Linn Pincumbe, Acton, MA Annabel Lauren Pinkney, Ada Magna Cum Laude

with Research Distinction

Madison Lee Piotrowski, Toledo

Cum Laude

Sierra Rose Piwarun, Cincinnati LaNae Breshon Plaxico, Chicago, IL

with Honors in the Arts and Sciences with Honors Research Distinction in Psychology

Andres Ivan Plazas, North Bethesda, MD

Magna Cum Laude

Plazas I Report Trainaburg

Ryan Jarred Pleau, Twinsburg Madison Marie Plumly, Columbus Wayne Rodney Plummer, Trenton, NJ Tanner Andrew Poage, Portsmouth Adam Charles Pohlabel, Fairfield Township Cum Loude

with Honors in the Arts and Sciences
Harshini Pokala, Columbus
Joshua David Poling, Akron

Joshua David Poling, Akron Cum Laude

Jennifer Margaret Polito, Cleveland
Summa Cum Laude
Herkko Juhana Pollanen, Helsinki, Finland

Herkko Juhana Pollanen, Helsinki, Finlai Ali Marie Polles, Plymouth Lucy Kathryn Pollock, Maumee Amanda Beatriz Pomarico, Dix Hills, NY Magna Cum Laude

Tiffany Amber Posey, Cleveland Stephen John Post, Cincinnati Alec Joseph Posterli, Westerville Derek Michael Potts, Hudson Magna Cum Laude

Daniel John Powell, Cincinnati

Kasey Jo Powers, Arlington Heights
Summa Cum Laude

with Honors in the Arts and Sciences

Maxwell Laurence Powers, Solon
Christian Daniel Prada, Chagrin Falls

Manna Cum Laude

Jacob Thomas Prall, Bloomingburg, NY Robert Patrick Prendergast, Cleveland Philip J. Prenger, Minster Abigail Evelyn Price, Swampscott, MA Erik Blaise Prior, San Antonio, TX Hunter Lee Prodzinski, Zumbrota, MN Michael Robert Prokop, Warren Cum Loude

Abigail Paige Puderbaugh, New Albany

Samantha Marie Puryear, Oak Park, CA Fatra R.M. Putra, Canal Fulton Anthony Lamarr Qualls, Columbus Simonetta Simone D'Emilia Quartell, Cleveland

Scott Allen Quickel, Reynoldsburg Mackenzie Leigh Quinlan, Columbus Humza Tariq Qureshi, Galena Magna Cum Laude

Jeremy Michael Radovanic, Painesville Magna Cum Laude

Beth Marie Raiff, Westlake Magna Cum Laude

Catherine Rainford, Cincinnati

Joseph Allan Rains, Novelty Sindhya Rajan, Sylvania Jaskaran Singh Rajput, New Delhi, India Benjamin Aaron Christian Rall, Marshfield, WI Manan Cum Lunde

Yasmeen Majdi Ramahi, Mansfield lan Christopher Ramey, Lima Steven Matthew Ramey, West Jefferson Autumn Ramsey, Westeville Alexander Pierson Rand, Orchard Park Patrick Kevin Randall, Columbus Nicholas Ronald Randlelt, Kirtland Pegah Shahrzad Rashidnia, Westlake Eyad Nasser Rasoul, Hilliard Joseph Donald Rechemmacher, Naperville, IL Morgan P. Reed, Delaware Alexandra Ruth Reese, Hilliard Joseph W. Regueiro, Akron

Devon Michelle Reich, Cincinnati Summa Cum Laude

with Honors in the Arts and Sciences Angela Kelli Reid, Laguna Hills, CA Summa Cum Laude

McKenzie Lauren Reid, Newark Carley Elizabeth Reinhard, Columbia, MD Magna Cum Laude

Riley Reist, Indianapolis, IN Joanna Kaye Renner, Dublin Magna Cum Laude

Jordan Elizabeth Rennie, Greensboro, NC Magna Cum Laude

with Honors in the Arts and Sciences
Ricardo A. Renta, Lorain
Hannah Marie Retz, Covington

Hannah Marie Retz, Covington Oliver Tala Reyes, Jr., Berea Leah Renee Reynolds, Columbus Cum Laude

Kylie Shae Rezes, Grove City Makenna Elizabeth Richard, Canton Magna Cum Laude Austin Michael Richards, Powell Christi Anna Richter Cincinnati Jamie Ellen Ricks, Bellefontaine LeRoy Creo Ricksy, Jr., New York, NY Erin Hannah Riddiford, Centerville Maana Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in History of Art

Elizabeth Ellen Riggs, Granger, IN Summa Cum Laude

with Research Distinction in Film Studies

Jenna Gail Buchanan Rigsbee, Dayton Alice Kate Riley, Christchurch, New Zealand Quinn Caitlin Riley, Naples, FL Maana Cum Laude

Frank William Rillo, Dayton Francesca Louise Rimer, Cincinnati Matthew Ringhiser, Canal Winchester Andrew William Ritchie, Lima Ty Edward Robben, Rolling Meadows, IL Summa Cum Laude

Kaleigh Anne Robbins, Columbus Cum Laude

Annalicia Florence Roberts, Grove City Magna Cum Laude

Hunter Michael Robertson, Westerville Andrew Daire Robinson, Bradenton, FL Joseph Robinson, Columbus Zackery Dennis Rodriguez,

St. Thomas, Canada Cum Laude

Alexis Rose Rogers, Columbus Tyler James Rogerson, Berea Maeven Vincenza Romp, Perrysburg Dwight Zhang Roper, Hilliard Kiersten Nicole Rosansky, Dublin Abigail Frances Rosekrans, Cincinnati Cum Laude

Anna Jacqueline Ross, Cincinnati

Summa Cum Laude with Honors in the Arts and Sciences

with Honors Research Distinction in Psychology

Eric William Ross, Calumet City, IL Jonathan Joseph Rosselet, Columbus Magna Cum Laude

Megan Mahoney Rossi, Baltimore, MD Jordan Alexandra Rossitto, Springfield Ashley Marie Roudebush, Hampshire, IL Magna Cum Laude

Arthur Rozek, Streetsboro Megan Elizabeth Rozga, Sheffield Lake

Magna Cum Laude Lisa Ruggiero, Cincinnati

Cum Laude Addison Lee Ruhlman, Cleveland

Ty Alexander Rummelhoff, Grove City

Cum Laude

Meisha Noel Runyon, Somerset Cum Laude

with Research Distinction in Psychology Jennifer Michelle Rush, Westerville Megan Catherine Russell, South Lyon, MI Cum Laude

Kathryn Sharon Ryan, Worthington

Maana Cum Laudi John Rye IV, Mason Cory Saffle, Lima Elijah J. Saiger, Chesterland

Emily Mae Saleme, Westerville Summa Cum Laude

with Honors in the Arts and Sciences Alivia Nicole Salyer, Columbus

Christine Marie Salzman, Dayton Cum Laude

William Patrick Sams, Huron Mackenzie Nichole Sandor, Akron Cum Laude

Ishrat Jahan Sanjida, Columbus Marcos Antonio Santiago, San Juan, Puerto Rico Magna Cum Laude

Juli Mina Sasaki, New Albany Maana Cum Laude

with Honors in the Arts Bradley Thomas Satterwaite, Grafton Beniamin Chandler Saunders.

Williamsburg, MI Kamila Anvarovna Saydzhanova, Dublin

Emily Sayre, Marion William Maxwell Scarbrough, Columbus Aaron Philip Schauer, Chagrin Falls Andrea Lauren Scheckelhoff, Bluffton David Mariano Scherer, Westerville James Anthony Schiano, Westfield, NJ Cum Laude

Erin Opeka Schmidt, Santa Rosa, CA Matthew James Schneider St. Charles MO

Summa Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction in History

Bridget Flynn Schodorf, Upper Arlington Samuel Jack Scholl, Hudson Maana Cum Laude

Rebekah Paige Schonauer, Killbuck William Robert Schott, North Canton Megan Lynne Schreuder, Chicago, IL John Michael Schroeder, Rocky River Claire Emily Schuster, Hamilton Summa Cum Laude

Emma Katherine Schwartz, Columbus

Katva Sude Schwenk, Cleveland Melissa Faith Schweyer, Jeromesville Anthony Michael Scinta, O'Fallon, IL Katelyn Sue Scott, Dublin Jamie Alexandra Screen, Westlake Michelle Catherine Sdao, Ottawa

Summa Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in History

James Maurice Seals, Jr., Columbus Catherine Elisabeth Sedor, Buffalo, NY Cum Laude

Madison Rae Semler, New Carlisle Cum Laude

Connor Douglas Semple, Hudson Summa Cum Laude

with Honors in the Arts and Sciences Ericka Nicole Sestrich, Columbus Alaa Ahmad Shabaneh, Hilliard Fatemah Shabbir, Bettendorf, IA Mamona Shafiq, Dublin Anamika Shaha, Perrysburg Amber Elizabeth Shaheen, Columbus Maana Cum Laude

Jessica Shakesprere, Harpers Ferry, WV Magna Cum Laude

with Research Distinction in Political Science Cain Oliver Shannon, Columbus Clayton William Sharb, Cleveland

Gumma Cum Laude Rebecca Ann Sharrer, Findlay Analeigh Katriel Shaw, New Albany Cum Laude

Patrick John Sheeran, Cincinnati Yufeng Shen, Yangzhou, China Hannah Rose Sherman, Russia Cum Laude

Lauren Denise Sherry, Orlando, FL Brittany Jane Sherwood, Southington Magna Cum Laude

Robert Lee Shield, Columbus Boston Rae Shields, Westerville Brandon R. Shields, Columbus Bradley P. Shook, Medina Lauren Nicole Shrader, Sylvania Devon Elizabeth Shull, Canal Winchester Christine Michele Sidner, Columbus Rebecca Michelle Sigal, Bexley Sydney Brianna Sillart, Marlboro, NJ Summa Cum Laude

with Research Distinction in Chemistry Erik Steven Silvers, Powell Jasner Simon, Toledo Luke Allen Sinclair, Chillicothe

Summa Cum Laude Lillian Pamela Sindelar, Shaker Heights Michael Renae Sindle, Sabina Baley Nichole Sipple, Eaton

Cum Laude Shannon M. Sisco, Toledo Matthew Mark Pei Chen Skarsten, Pickerington

Abigail Lauren Skeens, Cincinnati Maana Cum Laude with Honors in the Arts and Sciences Kerri Ann Sklenar, Reynoldsburg

Danna Skoy, Highland, CA Magna Cum Laude Nneke Aisha Slade, Columbus Kyra Janea Smalls, Columbus Cassandra Ellen Smith, Cortland

Magna Cum Laude Courtney Ashlyn Smith, Mission Vieio, CA Maana Cum Laude

Courtney Bryann Smith, Dublin Darius Smith, Virginia Beach, VA Cum Laude

Emily Marie Smith, Dublin Erik Timothy Smith, Grafton Cum Laude

Hannah Jane Smith, Dublin Jasmine Michelle Smith, Fort Collins, CO Magna Cum Laude

Kyle Marie Smith, Newark Madison Nicole Smith, Waterville Makenzie Lynn Smith, Columbus Nicholas Matthew Smith, Dayton Cum Laude

with Research Distinction in History

Olivia Jade Smith, Indianapolis, IN Cum Laude Phillip Scott Smith, Mason

Samantha Smith, Sandusky Wanda A. Smith, Kirkersville Zane Tabor Smith, Norwalk Melvin Smith-Williams, Columbus Audrey Nichole Snavley, Sidney Clara Alice Snavley, Sidney Drew William Snyder, Columbus Thomas MacKenzie Sodeman, Boardman Abbigayle Geraldine Soliday, Piqua Menilek Solomon, Baltimore, MD Alexander Eugene Solon, Loudonville Kylie Michaela Soltis, Whitehouse Megan Sonderman, Dublin

Lianxi Song, Beijing, China Yujin Song, Beijing, China Kathryn Lindsey Sonricker, Naperville, IL Magna Cum Laude

Selena Elisabeth Sorensen, Marysville lireh Zuriel Soto, Hilliard Sarah Souders, Plymouth, MI

Nicoletta Aggeliki Soulas, Columbus Hannah Sowders, Mason Jessica T. Sparks, Gahanna Collin Ray Sparling, Bellevue D'Mia Nicole Spivey, San Antonio, TX Jacob William Springer, Columbus Darien Michael Sproesser, Beavercreek with Research Distinction

Katherine Emily Renea Squeo, Columbus Noelle Marie St. John, Dublin Cum Laude

Zachary Scott St.Clair, Washington, IL Amanda Nichole Stacey, Pickerington Charles Edward Stack III, Columbus Kristine Brooke Stainer, Howard Mason Garrett Russell Stalder, New Carlisle Megan Elizabeth Standiford, Sylvania Montanna Jade Stanley, Columbus Sarah Johanna Stark, Pensacola, FL Alexander James Starkey, Bellbrook Cum Laude

Cooper Aaron Staton, Columbus Samantha Lou Stechschulte, Columbus Grove Collin Chad Steele, Westerville Maxwell Lewis Steele, Gahanna Summa Cum Laude

Charles Matthew Steelman, Bellville Christopher Edward Steigerwald, Warren Reid Wesley Stephan, Aurora Magna Cum Laude

Devonn Stevenson, Euclid Kavlinda Evelyn Stewart, Amsterdam Layne Marie Stewart, Cincinnati McKenna Shaw Stewart, Wadsworth Summa Cum Laude

Brody William Stice-Hildebrandt, Merrimack, NH Maana Cum Laude

Nickole Kristen Stiegler, Zanesville Natalie Carol Stiles, Hudson Cum Laude

Briana Stinson, Shaker Heights Bailey Michelle Stobart, Columbus Eric Śtockholm, Carmel, IN Anthony James Storrow, Jackson, NJ James Douglas Storts, Groveport Summa Cum Laude

Julia Susan Strand, Dublin Carolyn Grace Stratton, Sidney Maana Cum Laude

Adam Rohland Striker, Dublin Magna Cum Laude Jared Otto Strohschein, Gahanna

Tyler Strong, Monroe Rachel Lynn Stroup, Shelby

Summa Cum Laude with Research Distinction in English John Stucko, Columbus

Yudi Su, Beijing, China Aaron Lewis Sugarman, Bexley Laura Ann Sullivan, Pickerington Cassandra Celeste Summers, Newark Janejila Lin Suriyaburaphakul, Bangkok, Thailand

Allison Marie Susor, Oregon with Research Distinction in Women's, Gender, and Sexuality Studies

Wesley Robert Swanson, Wexford, PA Summa Cum Laude James Michael Sweeney, Delaware

Tyler Russell Sweet, Lebanon Joshua P. Swiger, Twinsburg Mackenzie Louise Tacher, Syosset, NY

Akinori Takeyasu, Hilliard Veronica Forteh Takougang, Cincinnati Caitlin Talmadge, Cincinnati

Magna Cum Laude

with Honors in the Arts and Sciences Raymond Tam, Parma Heights

Elizabeth Haley Tamburro, Phoenixville, PA

Magna Cum Laude

Haley Nicole Tandy, Blacklick Hanyu Tang, Shangdong, China Yuzhen Tang, Enping, China Magna Cum Laude

Robert Henry Taylor, Ansbach, Germany Caitriona Marie Techman, Charlottesville, VA

with Honors in the Arts and Sciences

Elam Getachew Teferi, Columbus Michael James Tekulve, Cincinnati Ceara Marie Thacker, Newark Cum Laude

Christopher Norman Thacker, Arlington Anna-Maria Thalassinos, Upper Arlington Melissa Sandra Theodore, Columbus Jamie Marie Thivener, Columbus Jonathan Dale Thomas, Circleville Kamaria Thomas, Westerville

Cum Laude

with Research Distinction in Sociology

Shannon Kelly Thomas, Glen Burnie, MD Emily Marie Thompson, Cincinnati Summo Cum Loude

Jayde Loryn Thompson, Johnstown Amanda Tidwell, Beavercreek Chase Jeffrey Tiefermann, Nashville, TN Magna Cum Laude

Maxwell Jerome Timko, Dublin Alejandra Isabel Timmins, Albany, NY Summa Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in English

Danielle Marie Timmons, Johnsville Michelle Catherine Tingley, Florence, KY

Emma Elaine Tippett, Columbus Magna Cum Laude with Research Distinction

Jacob Daniel Tischler, Maumee

Tiffany Thu Truc To, Wickliffe Stefano Anthony Todaro, Ballwin, MO Summa Cum Laude

Elyse Carolyn Toltzis, North Wales, PA
Cum Laude

Bethany Elise Toma, Lyndhurst
Magna Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Linguistics

Rachel May Tomasello, Parma Summa Cum Laude

Hannah Margaret Tomaszewski, Columbus with Research Distinction in Criminology and Criminal Justice Studies Mikael Torpegaard, Sorgenfri, Denmark Allison P. Torre-Findling, Niceville, FL Cum Laude

Natalie Ann Toth, Brunswick Summa Cum Laude

Brooke Taylor Traitz, Miami, FL Michael David Trawinski, Marion

Magna Cum Laude
Seth James Tribby, Lancaster
Vincent Edward Tricaso, Green
Abigail Elizabeth Trismen, Nipomo, CA
Milan John Tropf, Chesterland
Malik Tuck, Medina
Jeffrey Wayne Tucker, Jr., Columbus
Cristian Scott Turain, O'Fallon, IL
Kimberly Michelle Turner, Millersport
Kyle Christian Turner, New Albany

Rachel Lynn Tuskes, Chagrin Falls Summa Cum Laude with Honors in the Arts and Sciences

Caitlynn Noel Tutt, Columbus Ryan Jacob Tyndall, Hilliard Magna Cum Laude

Zaina Ujayli, Columbus

with Research Distinction in English

Krupa Navnit Upadhyay, Presto, PA
Olivia Brooke Urling, Lancaster
Kenysha Marie Utley, Marion
Natalie Elise Uzee, Atlanta, GA
Alexis Rachel Vacca, Parma
Tyler Matthew Vaccarella, Avon
Anthony Valentine, Jr., Cleveland Heights
Zachary Nathaniel Valiette, Columbus
Madelyn Valley, Akron
Elleen Grace Van Vorst, Middletown, NY
Eleanor Hazel Vanderbilt-Fried, Chappaqua, NY
Eve Michael VanderKaay, Kettering

Cum Laude
Evan Vanderpohl, Cincinnati
Sydni Nicole Vandervoort, Cleveland
Audrey Nicole Vanzant, Springfield
Duane Christian Vasquez,

Corozal Town, Belize Frank Martin Vassil, Brook Park Aaron Michael Vedder, Columbus

Collin Andrew Velasquez, Lorain Sara Velcani, Fier, Albania

Cum Laude

Karl Petr Velik, Lynnwood, WA Summa Cum Laude

with Research Distinction in Speech and Hearing Science

Sophia Louise Veneziano, Beavercreek Magna Cum Laude

with Honors in the Arts and Sciences Jessica Lynn Verdi, Cleveland Alexandria Katherine Vereb, Galloway Abigail Anne Vesoulis, Hilliard

Summa Cum Laude
Luke Garfield Vest, Dayton
Cum Laude

Claudia Maria Villena, Hilliard Olegario Inigo Villoria III, Alexandria, VA Alexandria Therese Viola, Lawrenceburg, IN Sean Pham Vo, Dublin Elizabeth Patricia Vollkommer, Merrick, NY Manga Cum Lurke

Kylee Marie Voshel, Massillon Ethan Wade, Lakewood Maggie Elizabeth Wagner, Galena

Summa Cum Laude

Lucille Wanjiru Wainaina, Reynoldsburg
Summa Cum Laude

with Research Distinction in English
McKenna Nicole Wald, Powell
Haley Catherine Waldo, Ironton

Summa Cum Laude with Honors in the Arts and Sciences

Jenna Kay Wallace, Westerville Michael Craig Wallace, Columbus Jillian Alexandra Waltz, Columbus Piaoyi Wang, Wenling, China Magna Cum Laude

Xinyi Wang, Chengdu, China Yizhou Wang, Shanghai, China

Yuming Wang, Guangdong, China Molly Claire Wannamaker, New Berlin, WI Cum Laude

Dallas Walter Ward, Zanesville Logan Seay Ward, Hamilton Magna Cum Laude

Kimberleigh Warriner,

Johannesburg, South Africa Donathan Lovell Washington, Westerville Molly Washko, Strongsville Emily Owens Wasserbauer, Fairview Park Cum Loude

Makayla Ann Waterman, Dayton Mason Thomas Watkins, Van Buren Elizabeth Grace Rader Watson, Novelty Magna Cum Laude

with Honors in the Arts and Sciences

Jesslyn Marie Watson, Rock Creek Michael Watson, Westerville Trey Michael Watson, Coalgrove Emoni Watterson, Cincinnati Eric Nickolas Watts, Murrieta, CA Mason Richard Waugh, Portsmouth Emma Margaret Wauschek, Pepper Pike Alicia R. Webb, Kiskimere, PA Dallas Lee Webb, Mansfield Tyler Ryan Webb

with Research Distinction in History

Anna Hansen Weber, Chagrin Falls Magna Cum Laude

Rachel Alexis Weber, Dublin Abigail Malleka Weekes, Beavercreek Summa Cum Laude

Taylor Wegman, Commercial Point Lai Wei, Henan, China Troy Robert Weider, Perrysburg

Magna Cum Laude with Research Distinction in French

Emma Ruth Weihe, Akron Magna Cum Laude

Alexandra Kay Weingarth, Zanesville

Cum Laude
David Ryan Weinraub, Moreland Hills

Magna Cum Laude with Research Distinction in Criminology and Criminal Justice Studies

Derek Joseph Weirick, Mansfield Madison Weiss, Oceanside, NY Hannah Nicole Welch, Grove City

Amanda Kristine Weldon, Hilliard Brooke Danielle Wells, Hamilton Elisabeth Nicole Welzien, San Ramon, CA Wanpeng Wen, Jiangxi, China Michelle Louise Wentling, Brewster Mogna Cum Loude Lauren Anne Wenzel, Vandalia Glenda Faye West, Summerville, SC Summa Cum Laude

Clarissa R. Westerman, Westerville John Alfred Wetzel, Johnstown

Danielle Rae Wheeler, Loveland Matthew Robert Wheeler, Hilliard Derek Michael Whiddon, Akron

Summa Cum Laude with Honors in the Arts and Sciences

with Honors Research Distinction in Political Science

Emma Katherine Whipkey, Findlay
Zane Reece Whiser, St. Louisville
Brittany Danielle White, Upper Arlington
Claire Loree White, Van Wert
Derrick Philippe White, Columbus
Jonathan Robert Reed White, Cincinnati
Nicholas John White, Akron
Kimberly Suzanne Whitman, Columbus

Cum Laude
Jana Kae Whittredge, Ashville
Katherine Leigh Wierzbicki, Chester, NJ
Aubrey Elizabeth Wiest, Mount Vernon
with Research Distinction in Enalish

Paige Nicole Wietzel, Marysville
Magna Cum Laude

Lilian Morgan Jane Wildermuth, Sidney Christian David Wilkoski, Centerburg Brendan Michael Williams, Olmsted Falls Candace Ann-Marie Williams, Bridgetown, Barbados

Joel Christopher Williams, Atlanta, GA

Kameron Drew Williams, Baltimore, MD Kyle J. Williams, New Lexington LaJoy Ian Williams, Cleveland Mackenzie Robinson Williams, Dublin Hanna Louise Williford, Bowling Green Magna Cum Loude

Mariah Annette Willis, Youngstown Cum Laude

Cum Laude
McKenna Nicole Willis, Fremont
Magna Cum Laude

James Robert Wilson, Norwalk Jena Leigh Wilson, Beavercreek Matthew Gregory Winebar, Cincinnati Madeline Sara Winget, Strongsville Rachel Wininger, Columbus

Summa Cum Laude with Honors in the Arts and Sciences

with Honors Research Distinction in Psychology

David Francis Winkel, Avon Lake Thomas Stanley Wisbith, East Palestine Magna Cum Laude with Research Distinction in History

Kyle David Wise, Lima

Katherine Elizabeth Wislocki, Fairfax, VA
Summa Cum Laude

Demi Rochelle Wisnieski, New Philadelphia Zachary Matthew Witmer, Seville Joseph Earl Wittman, Mentor Christina Marie Wolf, Wickliffe

Jacob Austin Wolf, Charlotte, NC Megan Elizabeth Wolf, Mason Magna Cum Laude

Summa Cum Laude

Magna Cum Laude

Mackenzie Elizabeth Wolfe, Shelby

Magna Cum Laude

Rachel Marie Wolfe, Milford, MI

Victoria Lynn Wolfe, Youngstown

Shashamane Oshun Wolfe-Steele, Columbus Elizabeth Anne Woodall, Cincinnati

Cum Laude

Austin Donald Barden Woodby III, Cincinnati Erin Victoria Woodruff, New Vienna Christopher Atticus Woods, Stony Brook, NY Mary Catherine Woods, Columbus Magna Cum Laude

Anthony Steven Woodward, Gahanna Steven G. Workman, Marion Kendra Loy Worley, Columbus Carrine Wright, Crystal, MN Jacob Alexander Wright, Kettering Cum Loude

Ryan James Wright, Westerville Morgan Rachel Wona, Gahanna Di Wu, Xiamer, Fujian, China Julie Ann Wu, Olmsted Falls Kim Wu, Pretoria, South Africa Collean Elizabeth Wuertz, Grove City Xinbei Xiang, Chengdu, China Yi Xiao, Dongguan, China Summo Cum Loude

with Honors in the Arts and Sciences

Amy Xie, Mason Kaimeng Xing, Beijing, China Magna Cum Laude

Guanying Xu, Beijing, China

Xueyi Xu, China

Zoe Michelle Yaffe, Toledo Edward P.T. Yager, Dallas, TX Qicheng Yang, Shanwei, China Cum Laude

Abigail Brooke Yanssens, New Alexandria Erin M. Yarger-Kirk, Upper Arlington Cum Laude

Mason Foster Ye, Newport Beach, CA

April Michelle Yoakam, Elida Maana Cum Laude

Nicolette Yohn, Sarasota, FL Stephanie Dawn Yoon, Hilliard Gregory John Yosenick, Laguna Niguel, CA Hannah Frances Young, Madeira Mogno Cum Loude

Hunter Christian Young, Charlotte, NC Justina Chen Young, Hilliard Samantha Louise Young, Marion

Cum Laude Sora Yu, Canton

Xiaoming Yu, Weihai, China Cum Laude

Xiaoqian Yuan, Beijing, China Magna Cum Laude

Soemi Yun, Busan, Korea Cum Laude

Jacob Ronald Zahn, Lexington Magna Cum Laude

Joseph Kenneth Zako, Eastlake

Shukri Zanika, Cambridge Aaron Joseph Zedella, Cleveland Batya Yisraela Zemelman, Cleveland Yibo Zhai, Harbin, China Cum Loude

Dongdong Zhang, Jinan, China Magna Cum Laude

Yiwen Zhang, Tianjin, China Zicong Zhang, Beijing, China Tianzhe Zhao, Beijing, China Wenzhuo Zhao, China Zixuan Zhao, Columbus Cum Laude

Chenchen Zheng, Zhengzhou, China

Yu Zheng, China

Cum Laude

Zoey Zickafoose, Chillicothe Robert Sebastian Zinnes, Silver Spring, MD Valerie Lynn Zivich, Northfield

Kayla Nicole Zuber, Payne

Shawn Zylberberg, Boca Raton, FL Magna Cum Laude with Honors in the Arts and Sciences

#### Bachelor of Arts in Journalism

Ebo Amissah-Aggrey, Westerville Ghezal Barghouty, North Olmsted Magna Cum Laude

with Honors in the Arts and Sciences

Colin Joseph Barringer, Blacklick Frank Joseph Berardi, St. Clairsville Benjamin Cain, Lockport, NY Teresa Julianne Cardenas, Xenia

Summer Lynne Cartwright, Dublin

Nick Andrew Clarkson, Dayton Owen James Daugherty, Columbus

Joseph Lewis Dempsey, North Ridgeville lan Michael Doherty, Thousand Oaks, CA

Rebecca Sorza Farage, Boston, MA Lydia Fay Freudenberg, Marysville Magna Cum Laude

Erin Kathleen Gottsacker, Cincinnati Summa Cum Laude

Alyssia Gladys Graves, Burtonsville, MD

Janaya Genise Greene, Chicago, IL Kevin Wayne Harrish, Newnan, GA Colin Philip Hass-Hill, Chagrin Falls Jeffrey John Helfrich, Rochelle, IL

Sheridan Lee Hendrix, Columbus Shirhaan Deepti Hossain, New Albany

Alexandra Marie Hulvalchick, Brunswick Dominique Nicole Johnson, Dayton Margaret Grace Jones, Cincinnati

Magna Cum Laude James Edward King II, Spotsylvania, VA Zachary Lee Konno, North Ridgeville

Magna Cum Laude with Honors in the Arts and Sciences Emily Marie Lehmkuhl, Toledo

Cum Laude
Yini Liu, Guangzhou, China

Sydney Patricia McNulty, Greenville, SC

Nicholas Andrew McWilliams, New Philadelphia Jacob Charles Myers, Westerville Ashley Nicole Nelson, Cincinnati Andrea Kyung Oh, Mason

Magna Cum Laude Fallon Siobhan Perl, Flossmoor, IL Emily Jean Real, Lewis Center Magna Cum Laude

Gene Douglas Ross, Ronkonkoma, NY
Cum Laude

Megan Catherine Russell, South Lyon, MI

Shangquan Shi, Shanghai, China Magna Cum Laude

Hannah Alise Smith, Westlake

Sara Lauraine Stacy, Jackson Hailey Anna Stangebye, Niles, MI

with Honors in the Arts and Sciences

Kevin Scott Stankiewicz, Brunswick Magna Cum Laude

Emma Grace Steele, Columbus Magna Cum Laude

Elizabeth Marie Suarez, Cleveland
Magna Cum Laude

Sarah Lynn Upton, Norton Abigail Anne Vesoulis, Hilliard Summa Cum Laude

Megan Christine Weiss, Lexington

# **Bachelor of Art Education**

Jessica Jo Downin, East Canton Jennifer Lynn Ellis, Marysville Rachelle F. Howland, Delaware Summer Rose Jordan, Marion Magna Cum Laude

Sarah Ann Ketron, South Lyon, MI

Brittany Royale Kidder, Columbus

Magna Cum Laude

Rachel Lyn LaGruth, Olmsted Township

Rebecca Aviella Lieb, Pickerington

Magna Cum Laude

Cassandra Marie Sinchok, Suwanee, GA Summa Cum Laude

Kelsey Lee Tester, Greenville Tashonda Ward, Chicago, IL

#### Bachelor of Fine Arts

Lily Mae Abels, Durham, NC Summa Cum Laude

Marissa Catherine Ajamian, Key West, FL Summa Cum Laude with Distinction in Dance

Amy Elizabeth Allen, Plano, TX

Cum Laude

Jessica Renee Avenel, Lima Nathaniel Paul Barbone, Columbus Emily Lynn Bender, Chardon Courtney Lee Boling III, Lexington Delaney T. Brochowski, Galloway Summa Cum Laude

Caroline Ting-Yeu Chou, Saratoga, CA Makayla Ann Combs, Xenia

Yaoxi Duan, Xi'an, China Erin Belita Evans, Danville, CA

Cum Laude

Mary George Farraj, Reynoldsburg Arianna Gabrielle Fine, Avon Summa Cum Laude Emily Anna-Christine Gaffga, Cleveland
Magna Cum Laude

Audrey Quinn Galat, Mansfield Magna Cum Laude

> with Honors in the Arts with Distinction in Art

Elena Garcia, Mount Vernon

Alejandra Gonzalez-Calvo, Marietta, GA

Caroline Morgan Haidet, Plano, TX Magna Cum Laude

Andrea R. Hanson, Columbus Cum Laude

Mikaela Karen Hayes, Anchorage, AK Magna Cum Laude with Distinction in Dance

Cole Dunham Henry Jones, Columbus Moira Dianne Roberts Holbrook, Columbus Kyler Jordan Holland, Troy Erica Jewelle Jackson, Cleveland Alyssa Rae Jessloski, McDonald, PA

Magna Cum Laude

Jayne Clarice Kennedy, Maineville
Summa Cum Laude

Danielle Lee Kfoury, Carol Stream, IL Summa Cum Laude with Distinction in Dance

Baylie Rose MacRae, Payson, AZ Magna Cum Laude

Elizabeth Noelle McClellan, Centerville Travis Cole McDaniel, Hamilton Kassandra Lynn Mestemaker, Granville Magna Cum Laude

Anthony Milian, Ypsilanti, MI Magna Cum Laude with Distinction in Dance

Richard William Neff, Jr., Canton Natalie Newman, Dallas, TX Magna Cum Laude

Riley J. Patrick, Columbus Magna Cum Laude with Honors in the Arts with Distinction in Art

Kathryn Elizabeth Procopio, New Freedom, PA Magna Cum Laude

Shea Colleen Ramsey, Playa del Rey, CA Cum Laude

Madeleine Claire Rico, Cleveland Magna Cum Laude

Tamara Sabbagh, Cleveland Andrew Evan Savage, Westerville Hudson Taylor Sharrock, Bryan

Magna Cum Laude Olivia Ruth Tschantz, Hudson Oliver Momo Urdaneta, Lyndhurst

Magna Cum Laude

Madeline Patricia Wallace, Upper Arlington
Calder William Hewitt White,

St. Catharines, Canada
Summa Cum Laude
with Distinction in Dance

Alisha Nicole Wholihan-Skover, Canton
Cum Laude

Lukas Drennan Wilhelm, Bexley Erin Chih-Fang Yen, Oak Park, IL Summa Cum Laude with Distinction in Dance

Yuntian Zang, Guizhu Guiyang, China

Carissa Anne Zrimsek, Cleveland
Cum Laude

#### Rachelor of Music

Leah Marie Anderson, Cincinnati Magna Cum Laude

with Honors in the Arts

Robert Mason Bach, Schaumburg, IL Magna Cum Laude

Willie B. Barthel III, Columbus Joshua William Beatty, Columbus Summa Cum Laude

Kevie Marie Bovaird, Columbus Cum Laude

with Honors in the Arts

Zoë L. McNett, Lombard, IL Maana Cum Laude

Timothy R. Montgomery, Jr., Columbus Cum Laude

Brogan Phillip Reilly, Medina Mason Brooks Rorapaugh, Medina Johanna Destiny St. John, Marysville Summa Cum Laude

Lee Thomas Tucker Westerville

#### **Bachelor of Music Education**

Michael Richard Bednarsky, Brecksville Summa Cum Laude

Katherine Christine Butler, Grove City Kelsey Brinn Fulmer, Williamsburg Magna Cum Laude

Ashley Dawnette Hart, Granville Ahmad Numan Hasan, Columbus Jacob Christian Henry, Pickerington Cum Laude

Erica Therese Kruse, Grove City Summa Cum Laude

Kristen Ann Machuga, Tolland, CT Summa Cum Laude

Robert Alan Mason, Olathe, KS Magna Cum Laude

Cassandra Mary McCall, Woodland Park, NJ Magna Cum Laude

John Joseph Oreskovich IV, Lewis Center Maana Cum Laude

Andrew James Picard, Jefferson Derek Ray Richardson, London

Magna Cum Laude with Honors in the Arts

Jonathan Edward Roane, Humble, TX Maana Cum Laude

Joseph Jay Sipzner, Guilderland, NY Summa Cum Laude

Kirsi Leigh Smith, Antwerp Magna Cum Laude

Ryan Lee Starcher, Tipp City

Duncan Alexander Titus, Beavercreek Summa Cum Laude

Jonathan Mark Weisbrot, Buffalo, NY Maana Cum Laude

David Michael Young, Charleroi, PA Maana Cum Laude

Matthew John Zatko, Elmore Cum Laude

Zachary Tyler Zerkle, Springfield Sarah Colleen Zonders, Grove City Maana Cum Laude

#### **Bachelor of Science in Design**

Erin Alissa Achille, Brookville, PA Cum Laud

Madison Margeaux Ackerman, Columbus Cum Laude

Marissa Nicole Adamic, Wickliffe Bianca Marie Adams, Barrington, IL Cum Laude

Tanner Brandt Bachelor, Pataskala Elizabeth Jeanne Bloch, Gahanna Brianna Lee Branco, Hatboro, PA Summa Cum Laude

Alexander Charles Broadstock, Centerville Cum Laude

Muhammad Fakhruddin Muhammad Firdaus Tan Chen Yang, Singapore

Emily Kaye Datsko, Canton Maana Cum Laude

Chloé Jean Denniston, Huber Heights Magna Cum Laude

Remaile Juiana Ferrell, Cincinnati with Distinction in Interior Design

Eric Friday, Akron Jonathan Michael Fulton, Coral Springs, FL Summa Cum Laude

Jared David Geizer, Montville Alex Joseph Getz, Toledo Maana Cum Laude

Colin Tyler Hearon, Powell Magna Cum Laude

James Gregory Holder, Roanoke, VA Summa Cum Laud

Ximeng Huang, Beijing, China Cum Laude

Kristen Anne Huyett, St. Louis, MO

Zachary Michael Kahl, Reynoldsburg Cum Laude

Emily Elizabeth Khoury, Columbus

Vladislav Petiov Kotov, Houghton, MI Maana Cum Laude Jonathan Loyd Lambert, Broadview Heights

Tiffany Lee, Westerville Cum Laude Myrna Lefke Lewis, Austin, TX

Bryan Lightfield, Mason Cum Laude

Alyssa Dawn Miller, Waterford Magna Cum Laude

Morgan Taylor Mitchell, Cleveland

Samantha Paige Nemeth, Medina Zachary James Norman, Bellevue Amanda Marie Pavlich, Richfield

Laura Marie Peshek, Malvern Maana Cum Laude

Rose Catherine Phillips, Columbus Magna Cum Laude

Tobias James Reichert, New Philadelphia Magna Cum Laude

Elizabeth Tiann Riddell, Ashtabula Cum Laude with Distinction in Interior Design

Nicole Barbara Riemer, Bethesda, MD Magna Cum Laude

with Honors in the Arts Kathryn Ann Riley, Highland, MD Magna Cum Laude

Ryan Tanner Simons, Greenville Cum Laude

Camille Snyder, Columbus

Savannah Leigh Storar, Dayton Maana Cum Laude

Luisa Veronica Talamas, Chihuahua, Mexico

Greggory Edward Tuckerman, Columbus Amanda Blair Vieu, Chicago, IL Cynthia Wagner, Cincinnati Jonathan Mark Wallace, Lorain Maana Cum Laude

with Distinction in Interior Design Olivia Wilmink, Cincinnati

Yihao Zhang, Tianjin, China Bonnie Zheng Zhao, Hilliard

#### Bachelor of Science in Atmospheric Sciences

Julia Ruth Andreasen, Washington, DC Kaleb Andrew Dotson, Sidney Nathan Patrick Evans, Hilliard Nathan Edward Herrmann, Lebanon John-Morgan Manos, Willoughby Cum Laude

Anthony Donato Ponzi, Pittsburgh, PA Magna Cum Laude

Justin Michael Solze, Gahanna Julian Taylor Spina, Liberty, NY Kevan Park Teasdale, Dayton Jacob Matthew Winters, Gallipolis Derek Jacob Witt, Martin

#### Bachelor of Science in Geographic Information Sciences

James Bowman Burpee, Worthington Nikhila Gurudas Cooduvalli, Galena Eric William Dahl, Worthington Ryan James Derge, Wyoming Brian Sean Ferguson, Pickerington Elliot Mark Gilfix, Acton, MA Md Arafat Hassan, Columbus Timothy Paul Hodson, Gahanna William Stanley Houser, Bellefontaine Timothy Paul Jones, Shaker Heights Colin Robert Juran, Independence Christopher Brian Kinder, Columbus Benjamin Edward Knisley, Lynchburg Joshua Matthew Laramie, Bethlehem, NY Jacqueline Nicole Lipphardt, Painesville Maana Cum Laude

Matthew Aaron Little, West Chester

Nia Ariana Matsumoto, Westerville Abigail Marie Nenna, Cincinnati Ashik Niaz, Columbus Dellone Ren Nie, Brecksville Ethan Ashley Pointer, Columbus Jennifer May Risch, New Albany Gabrielle Elizabeth Ruhe, Pittsburgh, PA Nicholas Leonard Shew, Grove City Robert William Shroder, West Chester Nicholas Michael Spivey, Pickerington James Aaron Thomas, Dayton Jacob Loren Woods, Marysville Mingren Yang, Nanjing, China

#### Bachelor of Science

Fransiscus Xaverius Aaron, Jakarta, Indonesia Nurul Afigah Nazurah Abd Rahim, Kuala Lumpur, Malaysia

Karum Abdulrahman, Westerville

Mahad Mohamed Abib, Westerville Ahmed Abdillahi Abokor, Columbus Heather Ann Adams, Springfield Ayomide Adewale Adebayo, San Antonio, TX

Jeremy Michael Adelstein, Solon Maana Cum Laude

Nitika Agrawal, Centerville Maana Cum Laude

Richa Agrawal, Beavercreek with Research Distinction in Biochemistry

Shukri Abdi Ahmed, Columbus Sanghoon Ahn, Dublin

Summa Cum Laude

with Honors in the Arts and Sciences Tarik Ihsan Al-Fayyomi, Dublin

Anik Khondaker Alam, Dublin Cole Rodney Albers, Versailles Maana Cum Laude

Madeleine Albert, Hilliard Jacob Sidney Alexander, St. Petersburg, FL

Cum Laude Jonathan Scott Brooks Alexander, Fremont Maana Cum Laude

with Honors in the Arts and Sciences

with Honors Research Distinction in Neuroscience Nooralhuda Subhi Alhashim, Ramallah

Maana Cum Laude Casey Danielle Allen, Pickerington Holly Anne Allen, Maumee

Cum Laude Danielle Nicole Alley, Hilliard Maana Cum Laude

with Honors in the Arts and Sciences Abigail Almomar, Temperance, MI

Rakan KH TH M A AlYagout, Kuwait City, Kuwait Maana Cum Laude

Shivani Shilpesh Ambani, Cincinnati Summa Cum Laude

with Honors in the Arts and Sciences Shweta Ambwani, Dublin

Prativa Amom, Cincinnati with Research Distinction in Molecular Genetics

Andy Amornyard, Newark Luisa Maureen Amunategui, Shaker Heights Jason An, Palos Verdes Estates, CA Kaiol Anandani Old Bridge N I Kelvin Anderson, New York, NY Cum Laude

Leah Marie Anderson, Cincinnati Maana Cum Laude

with Research Distinction in Molecular Genetics Matt Alan Anderson, West Chester Cum Laude

Paige Anderson, New Richmond

with Honors in the Arts and Sciences Irina Andrianova, Schaumburg, IL

Kaldeon Adam Aridi. Toledo Alexandria Angela Armeni, Columbus with Honors in the Arts and Scie

Victoria Armour, Youngstown John Randall Armstrong, Lancaster, PA Cum Laude

Kathryn Elizabeth Arthur, Buffalo, NY

Sammy Assaf, Cleveland Cameron James Atkins, Cincinnati Salonas Rafael Ayad, Akron Nur Eleeza Azhar, Subang Jaya, Malaysia Hyeon Woo Bae, Delaware Dominic Joseph Bagnoli III. Hartville Abdul Salam Bah, West Chester Summa Cum Laude

with Research Distinction

Liam Andrew Bailey, Grove City Magna Cum Laude

with Honors in the Arts and Sciences Whitney Ballash, South Park, PA

Wyatt Bamfield, Massillon Nathan Vincent Banaski, Blacklick Taylor Banc, Aurora

Nicholas Bandy, Manhattan, KS Maana Cum Laude

with Honors in the Arts and Sciences

Paul Robert Banta, Croton on Hudson, NY Victor James Barbee, Elyria Bradley Bardua, Cincinnati

Jacob W. Bargemann, Marrow Magna Cum Laude

Andrew J. Barrett, Richmond, IN Sydney Diana Base-Smith, West Chester Elizabeth Josephine Bashian, Hudson Cum Laude

with Honors in the Arts and Sciences

Connor Matthew Basinger, Miamisburg Maana Cum Laude

with Honors in the Arts and Sciences

Suji Govin Baskar, Avon Cum Laude

Brendan Lyle Baugher, Southington Magna Cum Laude

with Honors in the Arts and Sciences Dhiren Bavisi, Kuala Lumpur, Malaysia

Sarah Beadle, Massillon Magna Cum Laude

Margaret Jean Beck, Cincinnati

Emily Parizat Beckett, Cincinnati Maana Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Neuroscience

Eric Joseph Beigel, Sidney Mario Segall Belfiglio, Shaker Heights

Magna Cum Laude with Honors in the Arts and Sciences

Capricia Bell, Chicago, IL Cum Laude

Erica Anne Bell, Ashland Matthew James Bell, Vernon, CT Jaime Paige Bendewald, Glenview Rachel Anna Bengart, Buffalo, NY Cum Laude

Alexis Rae Benisek, Olmsted Township Carter Daniel Bensman, Anna Cum Laude

Adam Nicolas Bercz, Cincinnati

Maana Cum Laude with Honors in the Arts and Sciences

with Honors Research Distinction in Microbiology

Christopher David Bergamesca, Powell Mikaela Rose Berger, West Chester Maana Cum Laude

with Honors in the Arts and Sciences

Julia Berry, Delaware Audrey Elisabeth Bezilla, Aurora Carter William Billett, Massillon

Magna Cum Laude with Honors in the Arts and Sciences

Antoinette Louise Rizimana

Petit-Couronne, Normandy, France Ann Lowery McGilvery Black, Montgomery, AL

Joshua Aaron Black, Richmond, VA Cum Laude

Ashleigh Nicole Blatnick, Aurora Maana Cum Laude

Zoe Bliss, Lewis Center Perry Evan Blough, Peoria, IL

Magna Cum Laude with Honors in the Arts and Sciences

Meghan Therese Blunt, Glendora, CA Maana Cum Laude

Xiaofan Bo, Shanghai, China

Amber Ashley Boardman, Cincinnati Ethan Westley Lundy Boardman, Mansfield Maana Cum Laude

Michelle Ann Boettler, Centerville Summa Cum Laude

with Honors in the Arts and Sciences

Jeremy Aaron Boettner, Columbus Charles Andrew Bogner, Dayton Audrey Elizabeth Bollas, Columbus Brittany Nicole Boltz, Concord Jackson Paul Bonfiglio, Toledo Cum Laude

Samantha Maria Bonifas, Tipp City Maana Cum Laude

with Honors in the Arts and Sciences Clayton Burbank Bonin, Houston, TX Andrew Nathan Borman, Hudson Joshua James Bostic, Canton

Cyntia Anniese Boutros, Westlake Nicholas Robert Bowden, Findlay

Cornelius Joaquim Braam, Fairfield Summa Cum Laude

Austin Field Brachok, Lima Cum Laude

Taylor Michelle Brack, Dublin Ashley Ellen Braddom, Williamsburg, VA Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Molecular Genetics

Cole Bradley, New Albany

with Research Distinction in Earth Sciences

Maria Rae Bradley, Wexford. PA Peter Joseph Bradley, Westlake Cum Laude

with Honors in the Arts and Sciences

Allyson Jane Brady, Hudsonville, MI Maana Cum Laude

with Honors in the Arts and Sciences

with Honors Research Distinction in Earth Sciences Ashley L. Brancamp, Marion

Summa Cum Laude with Research Distinction in Psychology Brittany Karen Brandon, Fox River Grove, IL

Summa Cum Laude

with Honors in the Arts and Sciences Chelsea Evelyn Bray, Loveland Christopher Nelson Brie, Mason

Garrett V. Brittain, Dayton Daniel Scott Brogan, Warren Maana Cum Laude

with Honors in the Arts and Sciences with Honors Distinction in Mathematics

Brennan Eugene Brothers, Lower Burrell, PA

Alexa Renee Brown, Bryan Summa Cum Laude

Andrew Craig Brown, Germantown, MD

Cum Laude Haylee Elise Brown, Galloway Taylor Allyssa Brown, Napoleon

Cum Laude

with Research Distinction in Evolution and Ecology

Kylie Monica Bryant, Gahanna Samantha Irene Buck, Olmsted Falls

Maana Cum Laude

with Honors in the Arts and Sciences Jeyenth Bukkapatnam, Columbus Katherine Mia Burgee, Churchville, MD Tyler Knight Burkhart, Cincinnati

Cum Laude Samantha Burkholder, Archibald Elizabeth Linda Burkman, Dublin

Cum Laude

with Honors in the Arts and Sciences

Marcia Faye Burns, Aurora Cum Laude

with Research Distinction in Psychology Nathan J. Bushman, Lewis Center

Cum Laude Rachel Lynn Bushman, Dublin

Summa Cum Laude with Honors in the Arts and Sciences

Daniel Joseph Butz, Waconia, MN Kimberly Faith Byron, Avon Lake Maana Cum Laude

Brice D. Cable, Middletown William Albert Cabral, Parkton, MD Cum Laude

Bethany Cady, Powell Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Economics

Matthew Brendan Calhoun, Niskayuna, NY Anna Beatrice Callahan, Columbus

Maana Cum Laude with Honors in the Arts and Sciences

Emily Callahan, Columbus Lindsey Marie Campbell, Minerva Xuguang Cao, Chengdu, Sichuan, China Cum Laude

Yingnan Cao, Chesire, CT Nicholas Anthony Capaci, Granville Cum Laude

Samantha Rose Carilli, Dublin Tori Lee Carney, Maumee Caroline Jane Carpenter, Columbus Alex Jiro Carsel, Independence Cum Laude

Mary Yaeno Carson, Columbus Summa Cum Laude with Research Distinction

Alexandria Morgan Carter, Shepherdsville Summa Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Molecular Genetics

Nicole Kiamichi Casey, Fort Collins, CO Coleman Edward Chamarro, Marietta Jenny Chan, Bellbrook Madelyn Margaret Chapline, Parkton, MD Cum Laude

Zane Michael Chase, Girard Djudelie Chasma, Columbus Amina Nasr Cheema, Obetz Frank Zhang Chen, Dublin

Maana Cum Laude

Qiuyue Chen, Langzhong, Sichuan, China Qu Chen, Tangshan, Hebei, China Samuel Xing Shu Chen, Worthington Magna Cum Laude

with Honors in the Arts and Sciences Shangxiong Chen, Beijing, China Yemin Chen, Jinhua, China

Zevu Chen, Xiantao, Hubei, China Cum Laude

Zixuan Chen, South Huntington, NY Summa Cum Laude

Sheng Cheng, China

Xinvu Cheng, Suzhou, Jiangsu, China Chen-Ting Chien, Taichung, Taiwan Cum Laude

Maxwell Howard Childs, Cincinnati Mounica Chilukuri, Powell Wing Chung Chow, Cincinnati Cum Laude

Eleni Maria Christofides, Dublin Summa Cum Laude

with Honors in the Arts and Sciences

David Chu, Memphis, TN Magna Cum Laude with Honors in the Arts and Sciences

Shicheng Chu, Beijing, China Cum Laude

Edward Joseph Cichewicz, Jr., Monclova Summa Cum Laude with Honors in the Arts and Sciences

Christopher George Cintra, Jamestown, RI Casey Flaherty Clark, Orlando, FL

with Research Distinction in Earth Sciences Emma Caroline Clark, Westerville Maana Cum Laude

with Research Distinction in Biology Jeremy M. Clark, Whitehall

Magna Cum Laude Mykayla Clifton, Mount Vernon

Landon Myers Cluts, Bluffton Magna Cum Laude

with Honors in the Arts and Sciences

Emily K. Cobb. Columbus Shannon Takoda Cogan, Columbus Maana Cum Laude

Jordan Ashley Cognion, West Lafayette Maana Cum Laude

Kyle Parker Cohen, Beachwood

Andrew Cole, Arlington Heights, IL Victoria Isabella Colin, St. Charles, IL with Research Distinction

Emerson Xavier Broderick Collin, Renton, WA Summa Cum Laude

Brenna Kieran Collins, Columbus Frances Anne Collins, Columbus Corinne Kay Conaway, Powell

Summa Cum Laude with Honors in the Arts and Sciences

Logan Nicole Contos, Belmont Cassandra Jane Contrucci, Mentor Avery Cook, Savannah, GA Emily Rose Cook, Gahanna Austin Michael Cool, Fishers, IN Morgan Elizabeth Cooley, Bay Village

Juwan Scott Copeland, Dayton Nathan Allen Cordonnier, Versailles

Eric S. Cornelius, Cincinnati Baillie Cornell, Edinboro, PA

Maana Cum Laude

Jack Gabriel Corshen, Old Bethpage Jane Emily Corwin, Cincinnati Paul Alexander Costinescu, Columbus Magna Cum Laude

Abraham Angus Coull, Summit, NJ Aaron Michael Cowgill, Minford Kyle Alexander Cox, Holderness, NH Christopher David Crabtree, Columbus Sydney Joelene Cramer-Bodenbender, Napoleon

Thomas Adam Crook, Lancaster Summa Cum Laude Lucas Crum, Indianapolis, IN

Maana Cum Laude Bronte Cunningham, Bowling Green

Cum Laude with Research Distinction in Anthropological Sciences

Sarah Elizabeth Cunningham, Springboro

Summa Cum Laude with Honors in the Arts and Sciences

Caitlin Anne Curtis, Chardon Maana Cum Laude

Erin Elizabeth Custer, Willoughby Aaron Donald D'Amore, Cleveland Maana Cum Laude

Nicole Elizabeth D'Anna, Broadview Heights Summa Cum Laude

Bidur Dahal, Chicago, IL Sen Dai, Beijing, China Maana Cum Laude

Colin Joseph Dailey, Garnet Valley, PA Emma Elizabeth Dalan, Warrenville, IL Cum Laude

Harrison Dalby, Powell Magna Cum Laude

Hayley Marie Dalton, Bloomingburg Raymond Drew Damico II, Virginia Beach, VA Maana Cum Laude

Minh Le Dang, Columbus Taylor Marie Daniel, Oregon Mikayla Elizabeth Dantuono, Hackettstown Christina Daragan, Kyiv, Ukraine Summa Cum Laude

Oprah Winfrey Darkwah, Westerville Samuel Byron Darland, New Richmond Frank Joseph Dattalo, Lindenhurst, NY

Maana Cum Laude Alexander Michael Davis III, Toledo with Research Distinction in Biology

Dante Davis, Canton Gregory James Davis, Loveland Ian Quinn Davis, Columbus

Maana Cum Laude Joseph Kenneth Davis, Dublin Summa Cum Laude

Spencer Brian Day, Las Vegas, NV Summa Cum Laude

Julius Saud Paolo Naguit de Castro, Dayton Maana Cum Laude with Honors in the Arts and Sciences

Nicholas Peter Deems, Galion Maana Cum Laude with Research Distinction

Christopher Aaron Delaney, Providence, RI Maana Cum Laude

Jacob Michael Delis, Aurora Julia Theresa Dellick, Canfield

Cum Laude Caden DeMattie, North Royalton

Cum Laude

Peyton Christopher Demith, Tiffin

Bryce William Demoret, Loveland Magna Cum Laude

Ishika Desai, Morgantown, WV Cum Laude with Honors in the Arts and Sciences

Rahil Yatish Desai, Westlake

Caroline DeSantis, Staten Island, NY Maana Cum Laude with Honors in the Arts and Sciences

Advait Ashish Deshmukh, Upper Arlington Magna Cum Laude

with Honors in the Arts and Sciences

Natalie Dev, Dayton Kavla DeVan, Canton Gagandeep Kaur Dhaliwal, Germantown, TN Gagandeep Kaur Dhillon, Delaware Krupal Mayur Dholakia, Hilliard Vi Phuong Dinh, Columbus Maana Cum Laude

with Honors in the Δrts and Sciences Anthony Tylar Ditmer, Arcanum Ethan Michael Dolby, Westerville Catherine Huiwen Dong, Toledo

Summa Cum Laude with Honors in the Arts and Sciences Naiyuan Dong, China

Sydney Rose Donohue, Kirtland Cum Laude

with Honors in the Arts and Sciences Michelle Dorda, Bartlett, IL

Cum Laude Robert James Douglass, Shaker Heights

Julia Estelle Dubaj, Alliance Cum Laude

Jared Michael Duffey, Centerville Cum Laude

with Honors in the Arts and Sciences Christian Keeron James Dummermuth.

Columbus Molly Eskilson Duncan, Carmel, IN Ashley Elizabeth Dundon, Milford

Lindsay Marie Dunn, Shelby Stephen Warren Duval, St. Louis, MO Cum Laude

Alexandria Carlisle Dye, Ashland Daniel Zygmunt Dyszlewski, St. Louis, MO Brian Philip Easterling, Seville Velma Ekua Eduafo, Dayton

Ayla Edwards, Ashton, WV Magna Cum Laude with Honors in the Arts and Sciences

with Honors Research Distinction in Molecular Genetics Kara Marie Edwards, Denville, NJ

Maana Cum Laude with Honors in the Arts and Sciences

Daniella Ruth Eglash, Pittsburgh, PA Cum Laude

Mark David Eidsaune, Dayton Ellen Elizabeth Eighmy, Erie, PA

Nathan Daniel Eisel, Salem Magna Cum Laude

Salah Najeh El-Sadek, Palestine with Honors in the Arts and Sciences Paul Baruch Ellis, Silver Spring, MD

Nicholas Logan Elrad, Twinsburg Cum Laude with Honors in the Arts and Sciences

Ruba Deena Elzein, Columbus

Cum Laude with Honors in the Arts and Sciences Oluwasegun Paul Emenogu, Columbus Raven Mercedes Emery, Siren, WI Stephanie Lynn Endlish, Huron Clayton Ennis, Miamisburg

Cum Laude Nicole Episcopo, Macedonia with Research Distinction

Nicolas Anton Erhardt, Lakewood

Ericka L. Erickson, Canton Maana Cum Laude

with Honors in the Arts and Sciences

Sarah B. Esterline, Newark Paige Marie Everman, Liberty Township Catherine Ann Fabian, Ravenna Cum Laude

Shumin Fan, Guilan, China Summa Cum Laude

Wenqi Fan, Jinan, Shandong, China Joseph O'Sullivan Farchione, Cleveland Matthew Daniel Feck Keller TX Trevor Ryan Fee, Broadview Heights Richard Charles Feldtz, Cleveland

Chuhan Feng, Harbin, Heilongjiang, China Cum Laude

Jiyu Feng, Shenyang, Liaoning, China Tong Tong Feng, Mason Summa Cum Laude

with Honors in the Arts and Sciences

Megan Colleen Fennessev, Lebanon Catherine Feorene, Columbus Cum Laude

Mark Fick, Columbus Joseph Donald Fickes, Akron Aleiandro Jose Figueroa-Ripoll. San Juan, Puerto Rico Lauren Michele Filippidis, Sunrise, FL

Urs Stefan Fischer, Zurich, Switzerland James Kelly Fitzpatrick, Clinton Magna Cum Laude Katelyn Paige Fleischman, Hilliard

Glorianna Rachelle Flemming, Columbus Maana Cum Laude

Crystal Camille Fonseca, Reynoldsburg Joni Allen Ford, Cincinnati Cum Laude

with Honors in the Arts and Sciences Aubrey Marie Fox, Fremont

Cum Laude Michael Joseph Frank, Norwalk

Maana Cum Laude Amber Noelle Fredenburg, Reynoldsburg Bryan Thomas French, Delaware

Heather Renee Frideger, Minster Magna Cum Laude

Gregory Scott Friedberg, Solon Maana Cum Laude with Honors in the Arts and Sciences

Benjamin Elliott Friedman, Wyoming Magna Cum Laude

with Honors in the Arts and Sciences Brian Darrell Frueh, Lima Kendall Cassandra Fugate-Laus, Bexley

Jacquelyn Heather Fullford, Sarasota, FL Lexi-Lulu Furdek, Santa Clarita, CA Annette Maria Gailliot, Blanchester Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Economics Samuel Franklin Gailliot, Clarksville

Brendan Matthew Galdo, Pittsburgh, PA Maana Cum Laude

James Gallagher, Toledo Magna Cum Laude

Jacob Donovan Gallion, Wooster Maana Cum Laude

Megha Gandhi, Centerville Ryan Christopher Garcia, Columbus Scott Michael Garner, Avon

Summa Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction in Chemistry

Davis Edward Garrison, Ashland

Jeffery Allen Gartner, Westerville Tianhui Ge, Beijing, China Cum Laude

Hannah Camille Geissler, Columbus Maana Cum Laude

Luke Kordic Genutis Bedford

with Research Distinction in Molecular Genetics Tricia Danielle Gerber, Westerville Abigail Day Gerberick, West Chester

Megan Elizabeth Gerberick, Dublin

Kenii Allen Gerhardt, Columbus Mackenzie M. Gershom, Tallmadge Cum Laude

Jessica Morgan Ghere, Bremen Cum Laude

Gary M. Gibson, Austintown Katherine Christine Giesy, Lancaster Cum Laude

with Research Distinction

Daniel James Gilbert, Poland

with Research Distinction in Farth Sciences

Ajeet Singh Gill, Wooster Brian Michael Gillette, Copley Amber Lynn Gilliland, Wellston Maana Cum Laude

Deven Matthew Gilmore, Lewis Center Andrew James Giltmier, Cincinnati Maana Cum Laude

with Research Distinction

Christopher J. Giordano, Palmyra, PA Jenna Leigh Glover, Lebanon Maana Cum Laude

Sara Goddard, Fostoria Jacob Samual Godles, Elyria Michael Goldenberg, Loveland

Summa Cum Laude with Honors in the Arts and Sciences

Jiakun Gong, Fuzhou, China Magna Cum Laude

Mengqi Gong, Beijing, China Cum Laude

Caroline Meylon Gonzalez, Ardmore, PA Cum Laude

Victoria Gonzalez, Mason Cum Laud

Samantha Renee Goode, Columbia Station vith Research Distinction in Psychology

Maya Louise Gosztyla, Grove City Summa Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Molecular Genetics

Erin Kathleen Gottsacker, Cincinnati Summa Cum Laude Joshua Graham, Worthington

Thomas Graig Graham, Munroe Falls Cum Laude

Ashley Nicole Gray, Cincinnati

Magna Cum Laude with Honors in the Arts and Sciences

with Honors Research Distinction in Neuroscience Benjamin Weston Green, Yellow Springs Maana Cum Laude

with Honors in the Arts and Sciences

with Honors Research Distinction in Riology Claire Marie Griffiths, New Richmond

Leah Ann Grinshpun, Cincinnati Anton Igorevich Gromik, Snezhinsk, Russia Mitchell Gene Grose, Marietta

Matthew James Grosse, Maumee Maana Cum Laude

with Honors in the Arts and Sciences

Ashleigh Taylor Groves, Columbus Cum Laude

Justin Andrew Grubaugh, Gahanna Xin Gu, Zhejiang, China

> Summa Cum Laude with Research Distinction in Chemistry

McKenna Patrice Guilds, Gaithersburg, MD Rebecca Nicole Gutterman, Lake Villa, IL Magna Cum Laude

Michael Battersby Hadley, Cincinnati Ryan Joseph Hadley, Cincinnati Melanie Lynn Hageman, Kettering Ashley M. Haghighi, Dublin

Magna Cum Laude Katelyn Anne Hagstrom, Dayton Audrey Haijon Gunggut,

Kota Kinabalu, Malaysia Andrew Charles Hallenbeck, Silver Lake Danielle Hamzeloo, Mount Prospect, IL

with Honors in the Arts and Sciences

Cin'Quan Lemans Haney, Dayton Abby Christina Hankins, Scottown Odeh Mamoun Hanna, Parma Heights Cum Laude

Kevin Michael Hannah, Pickerington

Nancy Abigail Haro, Grove City Caitlin Robin Harper, Reynoldsburg Joshua Cade Harper, Chillicothe Magna Cum Laude

Chelsea Lynn Harpster, Ashland Christine Lynn Harris, Maineville Joshua Charles Gyu Young Harris, Hinckley Cum Laude

Christin Nicole Hart, Newark Kyra Nicole Hassler, Scarsdale, NY

Cum Laude Malina Hay, Hilliard Huimin He, Bowling Green

Cum Laude Jiajin He, Hengyang, China Cum Laude

Adam Heffner, Kingsville Erik William Heiden, Westerville Matthias Claus Heinz, Hilliard

Magna Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction in Physics

Katelynn Marie Helfrich, Pataskala Summa Cum Laude

Daniel Robert Helin, Blacklick

Nicholas Theodore Hemleben, Columbus Maana Cum Laude

Stephanie Mary Hempfling, Ottawa-Glandorf with Research Distinction in Biology

Katrina Marie Henderson, Independence Cum Laude

Nikolas Kyle Henderson, West Chester Summa Cum Laude

with Honors in the Arts and Sciences with Honors Distinction in Mathematics

Ross Henry

Newcastle Upon Tyne, Great Britain Allison Nicole Hernandez, Warren Marianna Del Valle Hernandez Brandi, Loveland

Christopher Gerard Herrel, Broadview Heights Carson Lee Herron, Salem

Magna Cum Laude

Jonathan Robert Hickman, Strongsville Magna Cum Laude

with Honors in the Arts and Sciences Taylor Darby High, McDermott

Claudia Ann Hinkle, Hudson Cum Laude India Hinton, Hilliard

Cum Laude Tucker Scott Hlad, Marysville

Ryan Connor Ho, Solon Monica Grace Hodapp, Centerville Summa Cum Laude

Anne Emily Hoelscher, Westlake Maana Cum Laude

Christopher Blake Hollenbeck, Doylestown, PA

Cum Laude Jennifer Lynne Hollyfield, Westerville Kia Jendayi Ayan Holt, Cleveland

Benjamin Charles Hood, Marlton, NJ Summa Cum Laude with Honors in the Arts and Sciences

Jeffrey Jason Scott Hooper II, Canal Fulton Summa Cum Laude

Erin June Hoover, Hudson Maana Cum Laude with Honors in the Arts and Sciences

Maisha Hossain, Columbus Aidan Howells, Lakewood

Maana Cum Laude with Honors in the Arts and Sciences

Charles Hsueh, Taipei City, Taiwan Yu Hu, Beijing, China Summa Cum Laude

Xiaoyi Huang, Shenzhen, China Yifei Huang, Shenzhen, China Magna Cum Laude

Yunhao Huang, Xiamen, China Magna Cum Laude

Zhecheng Huang, Fuzhou, China Cum Laude

with Honors in the Arts and Sciences Grant David Huber, Akron

Kathleen Rose Hudson, Cincinnati Magna Cum Laude

with Research Distinction in Psychology

Willie Huff III, Adairsville, GA Chelsae Leigh Hughes, McDonald, PA Mahnoor Humayun, Reynoldsburg Jimmy Colombo Humel, Brecksville Rvan Skye Hunter, East Northport, NY Selena Richey Hunter, Swarthmore, PA Hannah Elizabeth Hurd, Somerville Lauren Kirsten Hurst, Westlake

Maana Cum Laude

Norsuhana Emilinadiah Husin

Kuala Lumpur, Malaysia Summa Cum Laud

with Honors in the Arts and Sciences Amher Hussain Westlake

Cum Laude Shahmeer Asghar Hussain, Chambersburg, PA

with Honors in the Arts and Sciences Anwar Hussein, Hilliard Aaron Victor Hutchison, Bexley Devyn Kathleen Ianniello, Dresden Ali Abdi Ibrahim, Columbus Sami Ibrahim, Reynoldsburg Cum Laude

Cassandra Marie Iker Cincinnati Jacob Alexander Ingle, Hilliard Genevieve Marie Ivec, North Royalton

Cum Laude Rvuii Iwasa, Tokvo, Japan Devine De andra Jackson, Beavercreek Alex Lynn Jacob, Boca Raton, FL Cum Laude

Rachel Elizabeth Jacoby, Dublin Zachariah Adrian Peter Jaffe, Columbus Muhammed Omar Jajeh, Lima

Summa Cum Laude Guneet Janda, Solon Magna Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Biochemistry

Lauren Nicole Jeffers, Mason Magna Cum Laude

Aubrey Elaine Jensen, Boise, ID Maana Cum Laude

with Honors in the Arts and Sciences Hana Ji, Columbus

Xuepeng Jiang, Wuhan, China Jie Jin, Hangzhou, China Magna Cum Laude Yi Jin, Shaoxing, China

Arline Joachim, Fort Lauderdale, FL Hayden Sullivan Jochem, Columbus Marissa Ann Jocola, Warren Margaret Parker Joel, Pittsford, NY Cum Laude

Caitlin Johnson, Rushsylvania Magna Cum Laude

with Honors in the Arts and Sciences Kyla Renee Johnson, Brookpark Shannon Leah Johnson, Dover

Emma Jones, Columbus Shane Michael Jones, Green Camp Magna Cum Laude

Nicholas Christopher Joseph, Philadelphia, PA Madison Ann Jupina, Strongsville

Cum Laude Jordan Marie Jurek, Lebanon Cody Justice, Westerville Summa Cum Laude

Feni Kadakia, Galena Cum Laude

with Research Distinction in Neuroscience

Marcus Warren Kahler, Baltimore, MD Daniela Kaissieh, Centerville

with Honors in the Arts and Sciences Grace Fox Kallenberg, Cincinnati Maana Cum Laude

with Honors in the Arts and Sciences Adlina Kamarul Azhan, Bangi, Malaysia

Paulina Kamburowski, Sylvania Cum Laude

YuLuo Kang, Beijing, China Tapasvi Kanumuru, Louisville, KY Valentino Joshua Kaplan, Rockville, MD Lokesh Kasani, Dublin

Melanie Nicole Kasaris, North Royalton Cum Laude with Honors in the Arts and Sciences

Mana Ayalew Kassa, Columbus Chris Theodore Kateyiannis, Trabuco Canyon, CA

Cum Laude with Honors in the Arts and Sciences

lassKiran Kaur Westlake Cum Laude

Yicheng Ke, Changsu, Jiangsu, China Sarah Grace Kearney, Amelia Audrey Claire Kehling, Cincinnati Laura Ellen Keister, West Chester

with Research Distinction in Earth Sciences Amanda Kenepp, Munroe Falls

Cum Laude Evelyn Caroline Kennedy, Westlake Summa Cum Laude

with Honors in the Arts and Sciences Adelle Emelyn Kenney, Pataskala

Cum Laude with Honors in the Arts and Sciences

with Honors Research Distinction in English Chloe Anastasia Kent, Granville

Cum Laude Micha Elan Kerbel, Roslyn Heights, NY

Maana Cum Laude Mia Anne Xiaohuan Kern, West Chester

Summa Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction in Psychology

Cody Kessler, Englewood with Research Distinction in Earth Sciences

Christopher Steven Ketchum, Huron Fatima Chughtai Khalid, Mason Cum Laude

Ahmad Khalil, Ottawa Hills Mohammad Shabaz Khan, Westerville Darius Farhad Kharazi, Columbus Elisar M. Khawam, Westlake Madeline Rosemary Kiehl, Cincinnati

Alexandra Lynn Kifer, Canal Winchester Jackson Albert Killian, Washington Township Summa Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Computer and Information Science

Hee Kyung Kim, Toledo

Magna Cum Laude

Maana Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction in Molecular Genetics

Ju Yoon Kim, Draper, UT Justin Taejun Kim, Dublin Cum Laude

Seo Hyun Kim, Columbus with Honors in the Arts and Sciences

Nicole Mae Kinash, Mahopac, NY Alexander French King, Cincinnati Emily Hannah King, Canton Cum Laude

with Honors in the Arts and Sciences

Morgan Michelle King, Maineville Shelby Autumn Kitchin, Dayton Cum Laude

Andrew Scott Klaus, Jr., Brecksville Summa Cum Laude with Honors in the Arts and Sciences

Victoria Helen Klee, Cincinnati Jason Roy Kline, Oxford Cum Laude with Honors in the Arts and Sciences

Hayley Nicole Klosowski, Strongsville
Summa Cum Laude

Joseph Louis Kluener, Cincinnati

Andrew Knaack, Marlborough, CT

Kearstin Lea Knecht, Dover

David Knez, Naperville, IL Cody Mikel Kniffin, Columbus Nicole Elizabeth Koch, Wexford, PA Andrew Robert Koelln, West Chester, PA Jared F. Kohler, Mason

Magna Cum Laude Joshua Kevin Kolengowski, Cincinnati Cum Laude

Dekai Kong, Wuhan, Hubei, China

Xiangchen Kong, Beijing, China Hannah Lynn Konicki, Dayton Robert Henry Konstan, Galena Summa Cum Laude

Christine Ann Koporc, Streetsboro Ellen Rose Korte, Columbus Cum Laude

Anthony John Kostelnak, Lowellville Cum Laude

Yaman Kouatli, Columbus Cum Laude Michael Kovacevich, Akron

with Research Distinction in Physics Amanda Michelle Kovalcheck, Aurora

Cum Laude

Claire Elizabeth Kovalchin, Dublin

Magna Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction

Alexander Ivan Krasnoschlik, Independence

with Honors in the Arts and Sciences Gabriella Rose Kratzer, Girard

Magna Cum Laude Emma Elizabeth Kraus, Akron Aubrey Nicole Kreusch, Arcanum

Cum Laude
Kasey Morgan Kruse, Columbus Grove
Magna Cum Laude

Mackenzie Kruse, Cincinnati Jonathan Omar Cole Kubesch, Hamilton

Cum Laude
with Research Distinction

Jenna Kalin Kuczek, Boardman

Dinushi Amanda Kulasekere, Akron

Summa Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction in Economics

Nicolas Alexander Kumar, Cincinnati Magna Cum Laude

with Honors in the Arts and Sciences Taruni Kumar, Upper Arlington

Magna Cum Laude with Honors in the Arts and Sciences

Joseph Charles Kunesh, Kettering Patrick Daniel Kunkel, McDonald Laura Gabrielle Kuo, Sewickley, PA Manno Cum Laude

Lauren Nicole Kuzmanovich, Lake Villa

Kathryn Marie Kwon, Centerville
Cum Laude

Amanda Marie Kyle, Powell Summa Cum Laude

with Honors in the Arts and Sciences

with Honors Research Distinction in Microbiology Evan Andrew Lach, Chardon

Summa Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction in Chemistry Ryan Austin Lacinski, Bridgeville, PA

Summa Cum Laude
Christopher Alexander Ladaika, South Euclid
Halli Pegina LaFrankia, Branchburg, N.I.

Halli Regina LaFrankie, Branchburg, NJ Magna Cum Laude

Savannah Marie Lally, Cleveland

Cum Laude

Tyler Willson Lambert, Jasper Celeana Lee Lambing, Batavia Cum Laude

Diana Anya Lamriben, Cincinnati Nicholas Ryan Langer, Wexford, PA Alexander Michael Lappert, Columbus Luke Robert Larison, Cincinnati Taylor Scott Larison, Morroe Brent Alexander Lary, Medina

with Research Distinction in Earth Sciences Katelyn Marie Lashley, Salineville Bernadette Kay Latimer, Westfield, NJ Alex Christopher Lauria, Hudson Megan Lauttamus, Westerville Mackenzie Joseph Lawrence, Macungie, PA

Manh Si Le, Edgewood, KY
Summa Cum Laude
with Honors in the Arts and Sciences

with Honors Research Distinction in Physics James Christopher Lee, Cincinnati

Cum Laude with Honors in the Arts and Sciences Jason Lee, Columbus

Rachel Lee Travis, Powell Zachery Edward Lerch, Medina John Vasilios Levakis, Columbus Sophie Level, Lewis Center Kara Leventis, Warren Seung Lew, Seoul, Korea Emily Rose Lewis, Reynoldsburg Bolun Li, Beiling, China

Brian Li, Columbus

Cum Laude

with Honors in the Arts and Sciences

Can Li, Guangzhou, China Hao Li, Fuyang, Zhejiang, China Heng Li, Changchun, Jilin, China Huili Li, Beijing, China

Magna Cum Laude James Lu Li, Centerville Summa Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Microbiology

Kunlian Li, Beijing, China Luyi Li, Beijing, China Pearl Li, Ellicott City, MD Xingyao Li, Nanyang, China

Magna Cum Laude Zhirou Liang, Guangzhou, China Summa Cum Laude

Raymond M. Liao, Columbus Melanie Al-ling Lie, Hilliard Matthew Lillick, Kent Matthew Robert Lima, Dublin Eric S. Lin, Dayton Lauren Lin, Dublin

Summa Cum Laude

with Honors in the Arts and Sciences
Andrew Blum Lindstrom, Madison, WI

Anna Michelle Ling, Akron Ziman Ling, Changsha, China Magna Cum Laude

Mackenzie Starr Lingenfelter, Brookville Magna Cum Laude

Paul Jacob Linville, Columbus Nicholas Santino Lipari, Poland

Kevin Lissemore, Cleveland Heights Magna Cum Laude

with Honors in the Arts and Sciences Shannon Manuel Litton, Lima, Peru

Hua Liu, Nanjing, China Jiaqi Liu, Guangzhou, China Ruoxin Liu, Wuhan, China Summa Cum Laude

Shiran Liu, Bethesda, MD Siqi Liu, Xiri'gan, China Weiliang Liu, Yantai, Shandong, China Jacob Harry Loeser, Toledo Thomas William Logan, Columbus Drew Harmon Logullo, Greenville, IL Summo Cum Louise

Ryan Louis Loncar, Kirtland
Maana Cum Laude

James Austin London, Bethesda, MD with Research Distinction in Physics

Siyu Long, Guang'an, China Stephanie Renee Longwell, Van Wert Bo Lu, Beijing, China Magna Cum Laude

Emily Lynn Lu, Sylvania Magna Cum Laude

with Honors in the Arts and Sciences
Junte Lu, Zhengzhou, China

Patrick John Lucchino, Latrobe, PA

Heather Luken, Cincinnati
Cum Laude

Kassandra Alice Lumsden, Avon Jing Luo, Chengdu, China Cameron James Luther, Springfield Magna Cum Laude

with Honors in the Arts and Sciences

Kelsey Renee Lykins, Palm City, FL Seth Eugene Lyon, Marion Cum Laude

with Honors in the Arts and Sciences

with Honors Research Distinction in Biochemistry Jiazhi Ma, Beijing, China

Jiazhi Ma, Beijing, China Shangye Ma, Chengdu, China Cum Laude

Siyang Ma, Xi'an, Shaanxi, China Summa Cum Laude

Mitchell J. Maan de Kok, Waukegan, IL Jared R. MacDonald, Sandusky Allison Renee Mack, Westerville Joseph William Mack, Waynesville Michael Austin Macuga, Concord

Magna Cum Laude
with Honors in the Arts and Sciences
with Honors Research Distinction in Astronomy and
Astronomysics

Megan Lee Madden, Springboro
Cum Laude

Colleen Malloy, Rocky River Cum Laude Kristina Lynn Mancuso, Milan Anureet Mangat, Oregon
Magna Cum Laude
Joshua Lucas Mangels, Loveland
Summa Cum Laude

Summa Cum Laude with Honors in the Arts and Sciences

with Honors Research Distinction in Biology

Jack Alexander Mangold, Liberty Township

Magna Cum Laude

with Honors in the Arts and Sciences

Catherine Youngmee Manning, Haddonfield, NJ

Magna Cum Laude

Nicholas Charles Mannix, Cincinnati

with Honors in the Arts and Sciences

Jariatu Nana Mansaray, Columbus Corrin Renee Mansfield, Lewistown Selvan Sterling Manthiram, Detroit, MI Tom Marco, Buffalo Grove, IL Kalin Danielle Marino, Greensburg, PA Mogna Cum Laude

Brooke Ashley Marston, Madeira

with Research Distinction in Psychology Rebecca Rose Martin, Mason

Cum Laude
with Honors in the Arts and Sciences

Briana Gabriel Martinez, Lewis Center

Gabriela Vanessa Martinez, New Albany

Lauren Nicole Martini, Pickerington Jennifer Marton, Hinckley

Chelsea Rose Mascuch, Wyckoff, NJ Landon Keith Mason, Wilmington

Robert Alan Mason, Olathe, KS Magna Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Earth Sciences

Christopher Joseph Matteo, Smithtown, NY Skyler Daniel Maurer, Buffalo, NY

Skyler Daniel Maurer, Buffalo, NY Magna Cum Laude

Eric Joshua Maxwell, Bexley Brian McClure, Centerville Magna Cum Laude

with Honors in the Arts and Sciences

Madison Elizabeth McClure, Grover Hill

Magna Cum Laude

Jonathan Thomas McCullough, Buffalo Grove, IL

Jordan Rose McCullough, Jamestown Jordan Alexander McCurry, Dayton Cum Laude

Kevin Patrick McDonald, Elyria Dylan Thomas McDowell, Pickerington Summa Cum Laude

Melanie Brooke McFadin, Tipp City Katlynn Veda McFarland, Powell

with Honors in the Arts and Sciences with Honors Research Distinction

Stuart John McGibbon, Flemington, NJ Magna Cum Laude

Logan James McGinty, Cambridge

Magna Cum Laude

Patrick Allen McHugh, Grandview Heights
Summa Cum Laude

Robert Clark McKay II, Cortland

Summa Cum Laude with Honors in the Arts and Sciences with Honors Research Distinction in Physics Sydney Anne McKee, Powell Summa Cum Laude

with Research Distinction in Chemistry

Errienna Marcedes Mckenzie, Cincinnati Elena Louise McKnight, Boca Raton, FL Amelia Lane McMinn-Bryant, Alliance Allison Kate McMurray, Westerville Cum Laude

Brooke Elise McNerny, Cincinnati Omkar Mehendale, Mason Sumiran Mehta, Novi

Cum Laude Svasti Mehta, Dublin

Ao Mei, China Magna Cum Laude

with Honors in the Arts and Sciences

Kelly Ann Mencini, Strongsville Mynor Josue Mendez, Gates Mills Cum Laude

Lubidia Elizabeth Menjivar, Ashburn, VA Jenna Loryn Messer, Boone, NC Cum Laude

Kurt Allen Metz, Maumee Hannah Nicole Meyer, Fort Loramie Arafa Vuai Mgeni, Tanzania, Africa Clarissa Marie Michaud, Martinez, CA

Magna Cum Laude with Honors in the Arts and Sciences

Nathalie Bea Milbrandt, Strongsville with Research Distinction in Chemistry

Alexandria Lynne Miller, Hammond, IL Maana Cum Laude

Clayton Russell Miller, Poland Nichole Beaudry Miller, Avon Lake Joseph James Mills, Cortland

Jasper lan Mitchin, Worthington Nicholas Michael Mix. Huron Alexandra Lauren Mobley, Westerville Puneet Modgil, Centerville Cum Laude

Nur Elyza Shazwani Binti Mohamad Radzi, Sepang, Malaysia

Sean Arshia Mohtashami, Dublin Mary Fiona Molloy, Silver Spring, MD Cum Laude

with Research Distinction in Neuroscience McKenna Lynn Molnar, Copley

Eric M. Momenee, Toledo Ashley Ann Monachino, Twinsburg Jessica Marie Mongilio, Parkersburg Cum Laude

with Honors in the Arts and Sciences

Alexa Rachele Monroe, Hicksville Sean Monroe, Vienna, WV

Martine Marico Montero, Columbus Emily Marie Moore, Hilliard Richard Rylee Moore, Hilliard Anthony Micheal Morabito, Medina

Andrea Beatriz Morales-Casasola, Ventura, CA Summa Cum Laude

with Research Distinction in Psychology

Aditya More, Mason Maana Cum Laude

with Honors in the Arts and Sciences Ellen Marie Moretti, Columbus

Louis Paul Morgal, Columbus with Research Distinction in Earth Sciences Courtney Paige Moriarty, Celina

Jessica Sabra Mormol, St. Louis, MO Summa Cum Laude

with Honors in the Arts and Sciences

Julie Lynne Morris, Waldorf, MD Morgan Taylor Morrison, Jacksonville, FL Brenlie Kathleen Morrissey, Solon Hannah Grace Shaheen Mosiniak, Toledo Cum Laude

Adam Joseph Moss, Beachwood Anissa M. Moussa, Mason Shuchen Mu, Xi'an, Shaanxi, China Alexander Ionathan Muir Dublin Lydia Rose Mullins, Jackson

Katherine Ann Mundt, Rochester, NY Kathleen Rita Mundy, Akron Branden Michael Murphy, Mason Stevie Lynn Muscarella, Akron

Omar Ahmed Muse, Narobi, Kenya Alexandria Bethann Myers, Van Wert

Magna Cum Laude with Honors in the Arts and Sciences

Amraha Nadeem, Hilliard Maana Cum Laude

Saispoorthi Nagasamudram, Bangalore, India

Mohammad Naiyer, Dublin Cum Laude

Michael Ryan Nantz, Columbus Molly Malone Nash, Zanesville Cum Laude

Aaron David Natarelli, Victor, NY Keyla Navarrete, Chicago, IL with Research Distinction

Luke Neff, Dublin

Kevin James Neibecker, Kirtland Maana Cum Laude

Brooke Emily Nerderman, Columbus Alexis Catherine Neri, New Albany Hannah Dorit Newburger, Potomac, MD Cum Laude

Cam Phuong Thi Nguyen, Columbus Summa Cum Laude

Sandra Nguyen, New Albany Cum Laude

Lauren Nicole Nicassio, Greensburg, PA Cum Laude

John Paul Niedenthal, Navarre Erica Lynn Niewold, Allen, TX Magna Cum Laude

Steven Jeremy Nihei, Lexington Corbyn Daniel Nill, Austin, TX Cum Laude

Kuntang Niu, Zibo, China

Olivia Jacqueline Noall, Mentor Summa Cum Laude

with Honors in the Arts and Sciences Emma Frances Noecker, Fairfax, VA

Maana Cum Laude

Tatiana Noel, Butler, PA Cum Laude

with Honors in the Arts and Sciences Dominic Nolf, Columbus

Claire Elizabeth Novak, Columbus

Shannon Kathleen Novak, Strongsville Summa Cum Laude with Honors in the Arts and Sciences

Stanislav Novikov, Columbus Arnold Steve Nsoumbi, Glenn Dale, MD Robert Ernest Numbers, Dublin Cum Laude

Alex Christian Nusstein, Dublin

Cori Yvonne O'Boyle, Lewis Center with Research Distinction in Psychology

Patrick Thornton O'Gara, Springboro Evan Michael O'Malley, Cleveland James Benjamin Oatney, Columbus Cum Laude

Morgan Makana Oberweiser, Zionsville, IN Collin Austin Oborn, Stow

Cum Laude

with Research Distinction in Earth Sciences Isabelle Capadocia Ocampo, Gahanna Brigid Marie Ogden, Dublin Joseph Anthony Ojeda, Dallas, TX John Matthew Olmstead, Powell Magna Cum Laude

Bret Olson, Antioch, IL

Heather Marie Olson, Huntington Beach, CA Maana Cum Laude

with Honors in the Arts and Sciences

Carolina Isabel Ortiz Villabona, Cleveland Maana Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Neuroscience Suad Osman, Columbus

Peyton Michael Osmundson, Hartville Cum Laude

with Honors in the Arts and Sciences Dana Leigh Outcalt, Alamo, CA

Summa Cum Laude with Honors in the Arts and Sciences

Cerys Elizabeth Owen, Gaithersburg, MD Emily Christine Pacenta, Dayton Sarah Marie Painter, Lebanon

Magna Cum Laude with Honors in the Arts and Sciences

Alexander Pan, Georgetown Cum Laude

with Honors in the Arts and Sciences Weidi Pan, Chengdu, China

Summa Cum Laud Priyanka Pandey, Dublin Radhika Anirudh Pandit Mason Maana Cum Laude

with Honors in the Arts and Sciences

Alexandra J. Pappas, New Albany Kareesma Parbhoo, Massillon Julia Marie Parker, Cleveland Summa Cum Laude

Rachel Lorene Parker, South Vienna

Cum Laude with Honors in the Arts and Sciences

Shana Kaitlen Parker, Waverly Summa Cum Laude

Katherine Marie Pastrick, University Heights Maana Cum Laude

with Honors in the Arts and Sciences

Darshan C. Patel, Millbury Cum Laude

Dhaval R. Patel, Twinsburg Madhav Rajesh Patel, Canton Magna Cum Laud

Payal Hetal Patel, Elyria Radha Upendra Patel, Centerville Shalini Hariprasad Patel, Powell Cum Laude

Shama Patel, Boston, MA Maana Cum Laude

David Michael Patterson, Carrollton David Mitchell Patterson, Frankfort Rachel Michele Patton, Centerville Maana Cum Laude

Pavan Kumar Peketi, Twinsburg Magna Cum Laude

Koti Prabha Pelluru, Dublin Cum Laude

Paige Montana Penque, Stockholm, NJ Alexandra Adair Perbohner, Deerfield, IL Brennan K. Perkins, Loveland Emily Ann Perry, Powell Kristin Nicole Petit, Canton

Emma Catherine Phillips, Springboro Summa Cum Laude

with Honors in the Arts and Sciences John Andrew Phillips, Galion

Lindsey Danielle Phillips, Dayton Kristina Pickett, Columbus Rachel Ellen Pinchot, Russia Maana Cum Laude

with Honors in the Arts and Sciences

Nicholas Max Pinkerton, Cincinnati Lia Pinkus, Columbus Cum Laude

Kelly Anne Piper, Westerville Magna Cum Laud

Mary Katherine Piscura, Newbury Braden James Poe, Twinsburg

Cum Laude with Honors in the Arts and Sciences

Tvler Andrew Poelking, Brecksville Cum Laude

Aiesha Uma Polakampalli, Blacklick Cum Laude

Carly Renee Polcyn, Jackson Magna Cum Laude

Danielle Sierra Pond, Columbus Christian Daniel Prada, Chagrin Falls Magna Cum Laud

Brad Andrew Pradarelli, Muskego, WI Magna Cum Laude

Alexa Ann Prass, Vandalia Melissa Kay Pratt, St. Augustine, FL Nathaniel Robert Prijatel, Mentor Summa Cum Laude

Michael Albert Pristera, Ashtabula Dakota Shane Pritchard, Chillicothe Tylor Cale Pritchard, Upper Sandusky Cum Laude

Alexander Tyler Prouty, Troy Jordan Alan Purcell, Columbus Yazen Khaled Qaisi, Columbus Shengi Qian, Huzhou, China Yang Qian, Nanjing, China

Coleman Matthew Quay, Loudonville Colin Harrington Quinn, North Attleboro, MA Magna Cum Laude

Heather Ann Quinn, West Chester Qinwan Rabbani, Canfield Cum Laude

Brian Keith Race, Wadsworth Courtney Lynn Rader, Marengo Sean Powell Radigan, Mentor Daniel Jacob Radomski, Gahanna Shashank Raghavachari, Solon Nishika Raheja, Hudson Jamie Lynn Rainey, Fort Myer, VA Milena Rajcevic, North Royalton Madison Ayers Ramirez, Tampa, FL with Research Distinction in Psychology

Paige Alexandra Ramon, Franklinville, N.J. Pegah Shahrzad Rashidnia, Westlake

Abigail Rose Ratcliff, Bethel Julian Gartia Raul, Silver Spring, MD Spencer Norman Ravagnani, Portland, CT Brook Nicole Ray, Newark

Summa Cum Laude

with Honors in the Arts and Sciences Nithya Raya, Pickerington

Maana Cum Laude

with Honors in the Arts and Sciences

Rafal Razooky, Dublin Matthew Jacob Reed, Canal Fulton Cum Laude Kristen Marie Rehl. Cincinnati

Robert Joseph Reilly, Columbus Nathanael Steven Reinhardt, Urbana James Elmer Reinhart, Seville Benjamin David Reis, Dayton Joshua-Paolo Calibag Reyes, Alliance

Magna Cum Laude with Research Distinction in Biochemistry

Joseph Manuel Reyna, Berwyn, IL Kyle James Reynolds, Columbus Camran Rezapourian, Youngstown Alexander Nicholas Rhodes, Westerville

with Honors in the Arts and Sciences

Grace Marie Rhodes, Wadsworth
Summa Cum Laude

with Honors in the Arts and Sciences

Hannah Riddle, Beavercreek Summa Cum Laude

Collin Andrew Ries, Hilliard

with Honors in the Arts and Sciences
Clare Rigney, Milford

Matthew Jacob Rivera, Huron Abigail Sophia Robbertz, New Albany Cum Laude

with Research Distinction in Psychology

Natalie Lane Robek, Powell

Madison Elizabeth Roberts, Elma, NY Taylor James Roberts, Pickerington Mailli Joan Robinett, Orient Joshua Timothy Robinson, Dayton Shatyla Dyon Robinson, Dayton Melissa Rose Rodewald, Painesville Magna Cum Loude

Brandon S. Rodgers, Westerville Marilyn Eneria Rodriguez, Rockville, MD Victoria Rose Roeder, North Olmsted Kalman Carlisle Roemer, Mendham, NJ Kimberly Estelle Rolf, Brecksville

Jeffrey Dale Rolland, Jr., Medina

Jaime Aaron Rosenberg, Deerfield, IL Conner James Ross, Grove City James Joseph Ross, Pickerington Richard Dominic Ross, Dublin

Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Chemistry

Jessica Lynn Roth, Cincinnati Gianna Marie Rotondo, Warwick, NY Cum Laude

Alexandra Kay Row, Akron Colin David Rowe, Columbus Alana Marie Rozzi, Rochester, NY Payton Runyan, Columbus Nathan Christopher Rusin, Dublin Magna Cum Laude

Tara Lee Russo, Sagamore Hills Magna Cum Laude Nathan Michael Ryan, Dublin Rachel Elise Saadey, Canton Nicholas Charles Sabatino, Port Jefferson Station, NY

Kelley Marie Sadosky, Parma Yusef Babar Saeed, Cincinnati

Nathan Tyler Sagraves, Chillicothe Sunder Sai, Broadview Heights

with Honors in the Arts and Sciences with Honors Research Distinction

Anurag Salandri, Worthington Cartlin Avery Salyers, Lancaster Ali Samat, Kedah, Malaysia Jennifer Katherine Samiec, Centerville

Magna Cum Laude
Phillip C. Sanderell, Columbus
Magna Cum Laude

Mackenzie James Sankoe, Smithville

with Honors in the Arts and Sciences
Nicole Catherine Santos, Mason
with Research Distinction in Psychology

Jordan Karl Sarver, Akron

Magna Cum Laude

Abigail Jane Sarver-Verhey, Berea Summa Cum Laude

with Honors in the Arts and Sciences

with Honors Research Distinction in Anthropological Sciences

Brianna Dawn Sauer, Hilliard Alexandra Elizabeth Savka, Lexington Jennifer Rae Sawyer, London Laura Nicole Sayre, Pompton Plains, NJ Matthew Jack Scalia, Plainview, NY Katherine Nicole Scarpino, Centerville Magna Cum Loude

Taylor Allan Schaffner, Rockford Summa Cum Laude with Honors in the Arts and Sciences

Brittany Leah Schecht, Ottawa Hills

Samantha Margaret Schilling, Rocky River

Summa Cum Laude with Honors in the Arts and Sciences

Eleanor Carter Schmalz, Cincinnati Amanda Marie Schniegenberg, Medina Austin James Schoeffler, West Chester Magna Cum Laude

with Honors in the Arts and Sciences

Zachary James Schreckenberger, Uniontown Timothy Charles Schroeder, Massapequa, NY Jonathan Scott Schulman, Mason

with Honors in the Arts and Sciences with Honors Research Distinction

Blaire Karlyle Schumacher, Springboro Cum Laude

Jackson Douglass Schumacher, Columbus Magna Cum Laude

with Honors in the Arts and Sciences
Taylor Janette Scott, Cleveland
Cum Laude

Brayden Christopher Seal, Frisco, TX

Kendal Lee Searer, Mason Magna Cum Laude with Research Distinction

Haley Nicole Sechrist, Edinboro, PA Summa Cum Laude

with Honors in the Arts and Sciences

with Honors Research Distinction in Neuroscience Jennifer Ann Seilhamer, Dublin Hadley Morgan Selman, Cleveland Magna Cum Laude

Valerija Semeniakaite, Pickerington Cum Laude

Molly Elizabeth Sephel, Centerburg Magna Cum Laude Joy Marie Shaffer, Chardon

Maaz Shafi, Pickerington Vijay Hemant Shah, Dayton Summa Cum Laude

with Honors in the Arts and Sciences

Jessica Shakesprere, Harpers Ferry, WV
Magna Cum Laude

Hannah Lynn Shane, Cuyahoga Falls

Vanessa Joana Shannon, Massillon
Cum Laude

Shivani Ram Sharma, Centerville Sneha Ramaprakash Sharma, Powell

Summa Cum Laude
with Honors in the Arts and Sciences

Jacob Larry Shaw, LaGrange Brandon Scott Sheasby, Sunbury Alec Sheets, Lancaster

Prithvi Shetty, Mason Cum Laude

with Honors in the Arts and Sciences

Aaron Nathaniel Shifrin, Beachwood Magna Cum Laude with Honors in the Arts and Sciences

Kyle Austin Shindeldecker, Lucas Magna Cum Laude Joseph Tyler Shreve, Canton

Cole Shroyer, Bellefontaine Nicholas Rayburn Sigworth, Ravenna Cum Laude

Mary Elizabeth Silverii, Kettering Alexis Jane Simmermeyer, Findlay Summa Cum Laude

with Honors in the Arts and Sciences

Alden David Siperstein, Shaker Heights Taylor Nicole Sirset, Orange, CA

Joshua Daniel Slapnicker, Beechwood Lauren Elise Sloan, Warren

with Honors in the Arts and Sciences Matthew Smidt, Smithtown, NY

Anthony Rosario Michael Smith, Lewis Center Chloe Renee Smith, Round Rock, TX Dylan Smith, Lebanon

Eric Gregory Smith, Baltimore Kailyn Anne Smith, Cincinnati Cum Laude

with Honors in the Arts and Sciences
Zachary Roy Smith, Brunswick

Magna Cum Laude

Madeline Anne Smotzer, Boardman Stephen Anthony Sobocinski, Garfield Heights Kareem Soliman. Canfield

with Honors in the Arts and Sciences Virginia Jesusita Soliz, Columbus

Karen Mary Somes, Kirtland

Nicholas Brian Sosnowski, Memphis, TN Yiannis Sotiropoulos, Kennett Square, PA Jarrod Joseph Sotos, Dublin Sarah Elizabeth Spahr, New Albany Weltha Renee Spencer, Toledo Rachel Hruby Sperling, Solon

Summa Cum Laude with Honors in the Arts and Sciences Jacob Earl Springer, Norwalk Prathibha Srikantan, Dublin

with Honors in the Arts and Sciences
Hannah Kristine Staats, Marysville
Cum Laude

Erik Stagar, Medina Holly Marie Stahl, Gahanna Julianne Rose Stamer, Akron

Cum Laude

with Honors in the Arts and Sciences
with Honors Research Distinction in Anthropological
Sciences

Matthew John Stauder, Arlington Heights, IL
Magna Cum Laude

Darby L. Stephens, Chillicothe Lauren Lynne Stephens, Wilmington Ashley Victoria Stewart, Pickerington Natalie Carol Stiles, Hudson

Cum Laude Emma Morgan Stocker, Chardon

Cum Laude Brandon Lee Strickler, Marion

Jacob William Strohl, Worthington

Cum Laude

with Honors in the Arts and Sciences

Jacob Ethan Strous, Dublin Carissa Janelle Studer, Galena Cum Laude

Alexa Ann Stynchula, Latrobe, PA John Thomas Sullivan, Sandusky Kirby Marie Sullivan, Cincinnati

Cum Laude
Kulraj Singh Sumra, Dayton
Xiao Sun, Jiaxing, China
Cum Laude

Yifei Sun, Chengdu, China

Yu Sun, Wuhan, China Summa Cum Laude

Joshua Thomas Swanson, Geneva Adam Sychla, Cleveland with Honors in the Arts and Sciences

with Honors in the Arts and Sciences with Honors Research Distinction in Molecular Genetics

Abigail Christine Sylvester, Upper Arlington David István Szarvas, Shreveport, LA

Magna Cum Laude
with Honors in the Arts and Sciences
Spencer Ernest Talentino, Dublin

Magna Cum Laude
Peiyuan Tang, Beijing, China
Summa Cum Laude

Christian Jacque Tanny, McKees Rocks, PA Anna Claire Tantari, Lewis Center

Cum Laude Nicholas Andrew Tarney, Hilliard

Andrew Jacob Taylor, Pickerington
Summa Cum Laude

with Honors in the Arts and Sciences with Honors Research Distinction in Astronomy and Astrophysics

Anne Thomas Taylor, Akron Magna Cum Laude

Harrison Richmond Taylor, Mason Summa Cum Laude with Honors in the Arts and Sciences

John Taylor, Springboro

Magna Cum Laude

with Research Distinction in Psychology

Emily Teets, Dublin

with Honors in the Arts and Sciences

Naomi Graciela Tellez, Dayton William Delos Vennemeyer, Clayton Baylee Marie White, Bay Village Ziheng Xiao, Wuhan, China Magna Cum Laude Natasha Victor, East Hanover, NJ . Cum Laude Weihuang Xie, Chaozhou, Guangdong, China with Honors in the Arts and Sciences Pierina Alexandra Vilchez Espinoza, Hilliard Clay Christopher White, Pickerington Matthew Harrison Tepper, Philadelphia, PA Anna Voelker, Allison Park, PA Wu Di Xie, Budapest, Hungary Tyler Andrew Whitesell, East Hartford, CT Bangyan Xiong, Dublin Cum Laude Cum Laude Sunni Tai Whitmore, Madison, CT Travon Stephen Terrell Akron Jonah Gregory von der Embse, Ottawa Dikai Xiong, Beijing, China Surabhi Tewari, West Chester Magna Cum Laude Iohn Alan Wildenthal. Lewis Center Jiahao Xu, Wuhan, Hubei, China Summa Cum Laud with Honors in the Arts and Sciences Summa Cum Laude Kai Xu, Shenzhen, China with Honors in the Arts and Sciences with Honors in the Arts and Sciences Katherine Mary von Hollen, Galena Cum Laude with Honors Research Distinction Taylor Angelique Tharp, Lake Milton Amber Alicia Vorys, Grove City Minggian Xu, Nanjing, China Aaron Heath Wilker, Lima Cum Laude Sara Nicole Voss, Milford Summa Cum Laude Cameron Nathan Williams, Pennsauken, NJ Cassandra Jo Theobald, Trenton Cum Laude Tao Xu, Shanghai, China Alexandra Margaret Voytko, North Ridgeville Candace Ann-Marie Williams Magna Cum Laude Bridgetown, Barbados Jessy Thomas, Circleville Mathias David Wagner, Cincinnati Weiyao Xu, Chengdu, Sichuan, China Christopher Bernard Williams, Savannah, GA Xiao Xu, Columbus Katharine Laurel Thomas, Lancaster Maana Cum Laude Commodore Hamner Williams, Pittsburgh, PA Yifei Xu, Hangzhou, Zhejiang, China with Honors in the Arts and Sciences Shannon Kelly Thomas, Glen Burnie, MD Elijah Lamar Williams, Reynoldsburg Taylor Nicole Thomas, Johnstown Jessica Waibl Polania, Worthington Magna Cum Laude Mark Lanham Williams, Broadview Heights Letian Yang, Beijing, China Summa Cum Laude Maana Cum Laude Paul Anthony Williams, Bedford with Honors in the Arts and Sciences with Honors in the Arts and Sciences Qiaoxu Yang, Shenyang, China Brendan Patrick Thomeczek, St. Louis, MO with Honors Research Distinction in Microbiology Maana Cum Laude Ronna Marie Williams, Reynoldsburg Cum Laude Abadula Lencho Wako, Columbus with Honors in the Arts and Sciences Natalie Marie Willingham, Perrysburg with Honors in the Arts and Sciences Marisa Waldron, Columbus with Honors Research Distinction in Evolution and Logan Alexander Walker, Fargo, ND Abigail Ann Wilmer, Upper Arlington Kirsten Exie Thompson, Columbus Ecology Cum Laude Noelle Tyson Thompson, West Chester Magna Cum Laude Zhe Yang, Beijing, China with Honors in the Arts and Sciences David Alexander Wilson, Huber Heights Honazhi Yao, Zhenazhou, China William Carl Thornton, Maineville Matt Walton, Salesville Cum Laude Sean C. Yao, Brentwood, TN Maana Cum Laude with Honors in the Arts and Sciences Geng Tian, Tianjin, China Cheng Wang, Shanghai, China Natalie Marie Yoder, Westerville Sidney Isaac Tobias, Cincinnati Chengziwei Wang, Beijing, China Katelyn Nicole Wilson, Steubenville Robert Garrett Yoder, Louisville Cum Laude Manuel Andres Torres, Gefei Wang, Jinan, China Summa Cum Laude Guaynabo, Puerto Rico with Honors in the Arts and Sciences Alexis Niinga Yohmba, Columbus Summa Cum Laude Katelyn Kerrie Winters, Groveport with Honors in the Arts and Sciences Nathan Douglas Yoshino, Toledo Cum Laude Jeffrin Jahan Wisel, Hilliard with Research Distinction in Molecular Genetics with Honors Research Distinction in Biochemistry Maana Cum Laude Madelyn Traczek, Pittsburgh, PA Jiahao Wang, Jinan, Shandong, China Brett James Wisti, Sterling, VA with Research Distinction in Chemistry Cum Laude Cum Laude Maana Cum Laude Alexander Nicholas Young, Youngstown Jiaying Wang, Guiyang, China Erin Mary Woeste, Crystal Lake with Honors in the Arts and Sciences Summa Cum Laude Cum Laude with Honors in the Arts and Sciences Lengyang Wang, Chengdu, China Kevin Cong Tran, Westerville Bradley Kent Wolfenbarger, Plymouth Ty Thomas Boyd Young, Loudonville Summa Cum Laude with Honors in the Arts and Sciences Xinzhu Wang, Harbin, Heilongjiang, China Summa Cum Laua Runxin Yu, Beijing, China Courtney Courtella Wolford, Columbus Theresa My Tran, Wickliffe Magna Cum Laude Cum Laude Antonia Marie Tribuzzo, North Royalton Yanyu Wang, Huzhou, Zhejjang, China Shihao Yu, Beijing, China Nikolas Hunter Wolford, Van Wert Maana Cum Laude Yiting Wang, Kunming, China Xinping Yu, Dalian, China Nicholas Scott Wolsefer, Lebanon Marshall James Troxell, Hilliard Yizhong Wang, Alliance Magna Cum Laude Magna Cum Laude Yuxuan Wang, Shijiazhuang, China Cum Laude Zhenyang Yu, Hangzhou, Zhejiang, China Sean Edward Wolter, Greenville with Honors in the Arts and Sciences Magna Cum Laude Kelly Truong, Columbus Zhaoyang Wang, Qingyang, China Chun Wong, Cincinnati Nicholas Richard Yuhasz, Amherst Summa Cum Laude Chengzhao Tu, Hefei, China Maana Cum Laude Soemi Yun, Busan, Korea with Honors in the Arts and Sciences Zhe Wang, Beijing, China Summa Cum Laude Cum Laude Destiny Mariah Woods, Cincinnati Kaitlyn Rose Turkalj, Mentor Maana Cum Laude Aini Zakirah Binti Zaidi, Kuantan, Malaysia Spencer Logan Warden, Cambridge Mary Frances Woods, Bay Village Shukri Zanika, Cambridge Alexandra Turle, Aurora Magna Cum Laude Cody Tylinski, Naperville, IL Cum Laude Jason Russell Zeboris, Peekskill, NY Skyler Danielle Ware, Cincinnati Margaret Jane Woodworth, Chagrin Falls Nikolas Zebrowski, Chesterland Alyssa Anne Tyransky, Cleveland Kiersten Cecilia Woodyard, Liberty Township Chloe Tyznik, Granville Maana Cum Laude Elizabeth Marie Zehala, Columbus Cum Laude Laila Ujayli, Columbus with Honors in the Arts and Sciences Cum Laude Travis Andrew Wright, Grove City Jacob Paul Zeiher, Saline, MI Summa Cum Laude with Honors Research Distinction in Chemistry Chenyu Wu, Chongqing, China with Honors in the Arts and Sciences Christopher Thomas Washington, Mableton, GA Magna Cum Laude Haozheng Wu, Hangzhou, China with Honors in the Arts and Sciences Michael Ryan Watkins, Lewis Center with Honors Research Distinction in English Cum Laude Taiwei Zeng, Zhuhai, Guangdong, China Vincent Anthony Ulizzi, Highland Heights Julia Marie Watson, North Royalton Songnan Wu, Suzhou, China Summa Cum Laude Chenchuan Zhang, Shanghai, China Kyra Kathleen Ungerleider, Springboro Tyler Ryan Webb, Powell Magna Cum Laude Zachary David Uzzel, Beavercreek Summa Cum Laude Tongfan Wu, Centerville Haoqi Zhang, Shenzhen, China Cum Laude Cum Laude Zachary Thomas Weber, Dayton Yifei Wu, Xi'an, China Huayu Zhang, Qingdao, China Deanna Vachio, Reynoldsburg Yilei Wu, Beijing, China Alex James Van Valkenburgh, North Royalton Maana Cum Laude Jiachen Zhang, Dalian, China Olivia Nicole Wunderlin, Gahanna with Honors in the Arts and Sciences Jingwen Zhang, Changsha, Hunan, China Morgan Leigh VanDeCarr, Dublin Emily Nattida Weekes, Beavercreek Taylor Briana Wyatt, Wadsworth Magna Cum Laude Kirsten Marie Wykowski, North Olmsted Douglas James Vanderhoof, Lakewood Adam Michael Weiss, Canfield Nianyou Zhang, Beijing, China Oakk Wynn, Sidney Magna Cum Laude Summa Cum Laude Qingyu Zhang, Jinan, Shandong, China

Cum Laude

Xin Xia, Columbus

Maana Cum Laude

Summa Cum Laude

Enda Xiao, Cangzhou, China

with Research Distinction in Chemistry

with Honors in the Arts and Sciences

Stephanie Wentzel, Columbus

Magna Cum Laude

Summa Cum Laude

with Honors Research Distinction in Neuroscience

Rebecca May Welsh, Mount Lebanon, PA

with Honors in the Arts and Sciences

Carissa Nicole Vavalle, Windsor, CT

Sadhvika Venkat, Farmington Hills

Kaley Jo Varner, Paulding

Magna Cum Laude

Magna Cum Laude

Magna Cum Laurie

Magna Cum Laude

Maana Cum Laude

Rongxin Zhang, Hefei, China

Ruihan Zhang, Shantou, China

Xinlei Zhang, Quzhou, China

Xinwen Zhang, Shanxi, China Yinran Zhang, Weifang, China Zicong Zhang, Beijing, China Linna Zhao, Xinxiang, Henan, China Magana Cum Loude Ziyi Zhao, Beijing, China Ziyi Shirping Zhong, Columbus

Kaishi Zhou, Dongyang, Zhejiang, China Yiting Zhou, Shanghai, China Mogno Cum Laude Yuanchun Zhou, Chongqing, China

Magna Cum Laude with Honors in the Arts and Sciences

Yudi Zhou, Chengdu, Sichuan, China Yunying Zhu, Ningbo, Zhejiang, China Summa Cum Laude

Yi Zhuang, Shanghai, China Summa Cum Laude

Jessica Nicole Zile, Lake Waynoka Roman Anthony Zingarelli, Galena Kristen Marie Zulliger, Columbus Magna Cum Laude

Kyle Scott Zumfelde, Napoleon Zachary Joseph Zuppardo, Lima Amy K. Zwarycz, Sparta, WI Cum Laude

#### Associate of Arts

Nahom Abayneh, Reynoldsburg Walid Abu-Raad, North Olmsted Owen Ackerman, New Washington Rebecca Lee Adams, Newark Cum Laude

Sydney Elaine Alspach, Bucyrus Heath Jacob Altier, Somerset Johnny Douglas Anderson, Columbus Kirsten Marie Eileen Appel, Poland Magna Cum Laude

Reagan Elizabeth Arena, Powell Magna Cum Laude

William Arnold, Maineville Taylor Miranda Bahan, Mount Victory Travis Charles Baldwin, Johnstown James Zackary Ball, Centerburg Magna Cum Laude

Ellis S. Barnes, Bluffton Konner Ryan Barr, Gahanna Alexa Nikol Bartlett, Newark

Summa Cum Laude Hailey J. Batross, Lewis Center

Shanicia Inell Berts, Cleveland Heights Nickolas Lee Bishop, Mansfield Megan Christine Blankemeyer, Bellefontaine Caitlyn Denise Blecha, St. Louisville Daniel Joseph Boecker, Continental

Edward Micheal Boerstler, Newark Thomas Eugene Bolin III, Grove City Rachel Ann Boogaard, Dublin Haakon Borstad, Columbus Latdavane Nina Bounemany, Columbus Courtney Lanae Boychan, Newark Alisha Renee Boyer, Rushville Jewel Easter Bracey, Cleveland Randi Lynne Brackman, Hilliard Scott David Braumwarth, Lima Michael Allen Breed, Ashland Lloyd Clark Briggs III, Lima Baylie Marie Brock, Lima Emily Rae Brown, Lexington Samuel Marcus Brumett, Cincinnati Alex Marie Brunk, Lima Magna Cum Laude

Jacob Taylor Butler, Newark

Maana Cum Laude

Cara Lynne Caldwell, New Albany Sydney Reed Calesaric, Powell Magna Cum Laude

Carla Renee Caprella, Lima Michael Joseph Caproni, Ripley Brianna Shannon Carroll, Dublin Cum Laude

Walter Carruthers, Jr., Ashley Monica Blaire Carsey, Hilliard

Calvin Carter, Hilliard Danielle Nicole Carter, Marysville Daniel Ryan Casey, Columbus

Brittney Caudill, Columbus Grove Elaine Chen, Toledo Mollie Elizabeth Chetnik, Granville

Mollie Elizabeth Chetnik, Granville Summa Cum Laude

Kati Chi-Kei Cheung, Westerville Joshua Edward Chism, Pataskala Lawrence Clark Ill, Dayton Constance Faith Clauss, Columbus Nathaniel Edward Clinchot, Galena Andrew Joseph Coffman, Zanesville Jennifer Renee Coleman, Marion Lydia Ruhl Collier, Powell Adam Richard Collins, Pickerington Colton Wayne Conley, Marion Com Lowde

Carson Bradrick Cooke, Marysville Kade Tyler Cope, Richwood Dakota Copley, Centerburg Cassandra Paige Corfman, Columbus

Cum Laude
Joey Dale Corley, Buckeye Lake
Dominic Ramon Luis Cortez, Galion
Aisha Crafter. Columbus

Maana Cum Laude

Michael Ray Cremeans, Pataskala Magna Cum Laude

Connor Joseph Cua, Columbus Matthew Ellis Cubbison, Granville Anna Marie Curth, Jenera Hristijan Cvetanovski, Reynoldsburg Matthew Joseph Dalanno, Westerville Maxwell James DeBord, Newark Jacob Anthony Demetrescu, New Albany Sebastian Ovidiu Demetrescu, New Albany Pauld Christopher Donzy, Loydand

Sebastian Ovidiu Demetrescu, New Albar David Christopher Denzy, Loveland Lyndsey Kate Dillabaugh, Westerville Ashley Nicole Dilworth, Ashland Tira Angelina DiYanni, Pickerington Emily Nicole Dodd, Dublin

Brooke Donaker, Newark
Olivia Marie Douglas, Ottawa
Seth Alexander Douglass, Zanesville
Michael Lewis Downey III, Lima
Lydia Marie Drake, Delaware
Brendan Kristopher Draper, Lima
Alexander Peter Drews, Newark
Alyssa Drown, Republic
Euanda Duraj, Columbus
Christian James Dutiel, Newark
Collin Thomas Eberhardt, Dublin

Cum Laude

Cum Laude

Tyler James Egbert, Anna Andrew Nicholaus Embrey, Thornville Megan Emig, Cincinnati James Luther Enders, Marion Mikayla M. Erbe, Dublin Magna Cum Laude

Naomi Grace Etgen, Columbus Alexander Scott Evans, Mansfield Danielle Jude Evans, Newark

John Andrew Evans, Columbus Michael William Fackler, Loveland Cum Laude

Michael Joseph Fetter, Lima Matthew Roland Fisher, Upper Arlington Waryn Renee Flavell, Richwood Cum Laude

Sarah Marie Flowers, Centerburg Javan Thomas Fogle, Newark Anthony Forrest, Groveport Andrea Marie Frericks, Circleville Dylan Chase Fritts, Dublin Cum Loude

Hannah Renee Gable, Marion
Nicholas Joseph Gaby, Upper Arlington
Tremaine Gallion, Columbus
Alec Roman Gastesi, Columbus
Joshua Gilbert, Reynoldsburg
Rebecca Cecilia Goletz, Newark
Jobe Levi Gray, Ashland
Abigail Grace Green, Westerville
Kylie Nicole Green, Pataskala
Alyson Leah Grubbs, Lima
Jasmin Leigh Guerrero, Spencerville
Kailyn Ann Gullatt, Groveport
Emily Joy Gunn, Thornville
Cum Loude

Bethany Elaine Gwinn, Baltimore Bobbee Blair Hall, Ashville Kaitlyn Marie Hall, Johnstown Danielle Nichole Halley, Logan Jacqueline Elizabeth Halliday, New Albany Diana Marie Wory Hanson, Marion Jake Richard Hanson, Reynoldsburg William R. Harden, Mansfield Allyson Brooke Hardyman, Pickerington Elijah Aaron Harris, New Albany Mikayla Nicole Hartline, Pickerington Magna Cum Laude

Rachel Marie Hawthorn, Baltimore Maria Theresa Hayes, Newark Sara Pearl Healea, Upper Sandusky Kristyna Ellen Heimberger, Ashland Sabrina Sylvia Helman, Mount Gilead Britteny Lynn Hendrickson, Lima Cum Laude

Madalyn Marie Herman, Ottoville Tawny K. Hetsler, Bellville Caleb Michael Hickman, Mount Vernon Magna Cum Laude

Travis Jay Higgins, Johnstown
Summa Cum Laude

Quinton Michael Hiler, New Washington Emily Nicole Himsel, Lima Kelsey Elizabeth Hoar, Pataskala Elliott J. Hoepf, Republic Christopher Andrew Hoffman, Berlin Heights Drew Joseph Holland, Dublin Ryan Lee Holzer, Marengo Corey Lee Honaker, Pataskala Beyla Sabri Hood, Huber Heights Amy Elizabeth Hopkins, Wilmington

Olivia Grace Hoppe, Wooster Nicole Elisabeth Hopwood, Upper Arlington Travis Eugene Hothem, St. Clairsville Angelina Raquel How, Columbus Nicholas Clay Hudak, Brunswick Christian Alan Hunt, Canal Winchester Clarissa Dawn Hutchinson, Hebron Cum Loude

Nour Taisser Iskander, Westerville Devin Lyle Johnson, Pickerington Shane Johnson, Columbus Lily Catherine Johnston, Marion Brandon Antony Jones, Cleveland Heights Colton Michael Jones, Canal Winchester Manag Curi Louis

Logan Jeffery Jordan, Dresden

Ruksana Regina Kabealo, Marysville Summa Cum Laude

Pavin Singh Kala, North Ridgeville

Cum Laude

Nielseles Kanal, Calumbus

Nickolas Kanel, Columbus Emily Louise Kanney, Plymouth Bhavneep Kaur, Greenville Cum Laude

Alyssia Linnea Keil, Lancaster Blake Cristian Kelly, Grove City Matthew Scott Kennedy, Pataskala Jonathan Edward Kent, Jr., Pataskala Anny Khaysavang, Columbus Kaitlin Rose Kidd, Elida Mogno Cum Loude

Emily Laine Kiger, Columbus Taylor Rosemary Kiger, Granville Magna Cum Laude

David Kim, Hilliard Jisoo Kim, New Albany Alexander Peter Kiraly, Reynoldsburg Riley Weston Klaus, Spencerville Summo Cum Laude

Chelsey Marie Klosterman, Celina Summa Cum Laude

Stone Micheal Knapp, Whitehall Augusta Lyons Koelsch, Springfield Cum Laude

Maxwell Alexander Koontz, Newark Jessica Kovalchuk, Painesville Regan Brooke Kowalczuk, Reynoldsburg Evelyn Michelle Lambert, Raymond Jordyn Nicole Lambert, New Albany Jean-Pierre George Lammers, New Albany Philip Ardell LaVigne, Newark Lauren Elizabeth Leatherman, Van Wert

Alexis Kristine Leavers, New Philadelphia James Patrick Lee, Marion Rachel Mary Leffel, New Knoxville

Cum Laude
Emily Elaine Legg, Westerville
Jo Ann Leienberger, Ashley
Kyleen Christian Leifer. Kent

Magna Cum Laude Sam Simon Leitz, Monroeville Jack Charles Leonhardt, Cincinnati Abigail Sue Lewallen, Upper Sandusky Cum Laude

Hannah Marie Likar, Richfield Mollie Lirot, Bryan Amelia Claire Lively, Marysville Emily Lynn Locke, Granville Summa Cum Loude Megan Catherine Long, Lima Magna Cum Laude Scottie Anne Long, Alexandria Kavla Jo Luft, Hebron Trevor Cole Maag, Kalida Cum Laude

Sarah Rae Mackesy, Lima Cum Laude

Myah Mahayri, Cambridge Casidi Lynnette Maierle, Jacksontown Jarrett Austin Makoroff, Brunswick Crystal Celeste Manley, Canal Winchester Madelyn Vera Mann, Wadsworth Evan Richard Mansfield, New Albany William John Margiotta, Jr., Columbus Chloe Jennifer Martin, Bellefontaine Hannah Margaret Martin, Attica William Alexander Mason, Reynoldsburg Anna Grace Mattes, Columbus Michael Maynard, Columbus Brianne Nicole McCague, Lewis Center Jaidyn McClain, Toledo Colin Paul McCullough, New Albany Hannah Pearl McQuistion, Marion

Summa Cum Laud Melissa Mei, Columbus Luis Alberto Melendez, Cleveland Allison Carol Mellor, Upper Arlington Victoria Rose Menken, Mantua Elizabeth Sue Merrill, Pataskala Emilee Joy Meyer, Spencerville Breanna Miller, Kenton Kyerston Miller, Wilmington Kyle Andrew Miller, Centerville Magna Cum Laude

Shannon Noel Miller, Bucyrus Cum Laude

Ryan Dean Minyo, Mount Gilead Mohamed Abdi Mire, Columbus Yao Yao Mo. Lewis Center Hafsa L. Mohamed, Columbus Chloe Brianne Montgomery, Mansfield Summa Cum Laude

Yejung Moon, Hilliard Josef O. Moore, Gahanna Morgan Ashley Morris, Gahanna Morgan Brittny Morton, Elida Hayden Jacob Muckensturm, Lancaster Stephen Muica, Massillon Alexis Caitlin Murray, Ashland Keegan MacKenzie Muth, Westerville

Summa Cum Laude Hedaya Najar, Westerville

Majd Salih Najar, Westerville Chance Hilton Nauman, Johnstown Hannah Michelle Neate, Marysville Tri Minh Nguyen, Columbus Michael Uchenna Nnadi, Columbus Andrea Cherie Norman, Columbus Jordan Nicole Norris, Pataskala Cum Laude

Sydney Ann Nunamaker, Marion Michael O'Connell, West Chester Oluchi Michelle Obiagwu, Galloway Cum Laude

Sarah Reed Ogonek, Akron Taylor Mae Orr, Frazeysburg Johanna Leslie Elizabeth Owen, Cincinnati

Olivia Ann Pardi, Columbus Haley Morgan Parker, Lewis Center Juliana Yamile Passino, Columbus Parthkumar Kamleshkumar Patel, Lima Maana Cum Laude

Sonia Veni Pattisam, Dublin Amanda Jane Payne, Johnstown Cum Laude

Gary Todd Payne, Milford Summa Cum Laude

Miceli M. Peña, Columbus Tyler Jacob Pennington, Pataskala Janet Afrakoma Peprah, Columbus Cody Aaron Perkins, Hebron Magna Cum Laude

Catherine Amanda Perry, Toledo

Sebastian Henry Pfeffer, Newark Amy Renee Phelps, Newark Marcus Phelps, Strongsville Anastasia Lee Phillips, Westerville Armond Ph Phillips, Newark Colleen Elizabeth Pierce, Dayton Lance Austin Porter, New Albany Benjamin Scott Powell, Westerville Jacob Michael Powell, Hebron Megan Lynnae Prater, Heath Hugh Alexander Prentice, Alexandria Christopher Anthony Prince, Columbus

Magna Cum Laude Isaiah De'Von Pryce, Pickerington Shayleigh K. Pugh, Marysville Maana Cum Laude

Maryam Mahmoud Qadoom, Dublin Joshua Dean Rader, Pickerington Luke Andrej Rakowsky, Granville Sidney Marie Rancour, Dublin

Cum Laude Kevin Lamonte Rankin, Jr., Galena Diamond Marie Rapp, Blacklick Danyele Christine Raver, Obetz Phillip Lee Rawson, Twinsburg Maana Cum Laude

Timothy Daniel Regrut, Westerville Maana Cum Laude

Kayhla Ann Reichert, Westerville Mackenzie Nicole Reinhart, New Riegel Summa Cum Laude

Lea Rose Reynolds, Pickerington Rachel Gene Rickman, Pickerington Magna Cum Laude

Yasoda Rijal, Blacklick Cum Laude

Lindsey Cora Rine, Bladensburg Maana Cum Laude

Drew August Ripploh, Minster Cade Christopher Risch, Heath Garrett Lee Robinson, Pataskala Maana Cum Laude

Samantha Maria Rocco, Brookpark Mattea Lyn Rolsten, Mendon Nicole Romanelli, Galena

Summa Cum Laude Zane Dylan Romine, Newark

Alison Lynn Roof, Lima Max Jesse Rosenberg, Blue Ash Ciana Lyn Roush, Canal Winchester Magna Cum Laude

Colton Ruck, Dublin Jordan Alexander Rummel, Westerville Elisabeth Amy Ruth, St. Marys

April Tia Alexis Rymer, Guysville Clay David Sammons, Baltimore Kyle Andrew Sands, Rawson Summa Cum Laude

Shelby Anne Sarisky, Westerville Cum Laude

Cameron Jamil Savage, Columbus Cooper James Scanlon, Loveland Anneliese Margarete Schenk, Delaware Julie Elizabeth Schmersal, Ottoville Alexa Lynn Schoonover, Reynoldsburg Nicholas Schuman, Upper Arlington Summa Cum Laude

Bernard Robert Schwartz, Newark Cum Laude

Melissa Faith Schweyer, Mansfield Kevin David Scott, Wellington Magna Cum Laude

Mark Allen Scott, Newark Lexis Samantha Sens, Marion Summa Cum Laude

Nicholas Babeaux Sergakis, Columbus Amanda Sexton, Westerville Jordan Michelle Shafer, Reynoldsburg Noah William Sharpe, Lancaster Justis Alexander Shaw, Columbus Devin Scott Sheller, Etna Claire Margaret Shonk, Lancaster Summa Cum Laude

Cory Blake Sims, Wapakoneta Cum Laude Julia Renee Sincel, Tallmadge

Cum Laude Journi Nichole Smith, Reynoldsburg Megan Elaine Smith, Newark Jordan Susanne Snively, Franklin Charles Basil Sockol V, Hudson Michael Conner Somerville, Powell Blake Allen Sours, Wadsworth Maria Grace Spain, Worthington Gavin Austin Speelman, Mansfield Molly Kay Sprankle, Zanesville Tessa Marie Starner, Bucyrus

Cum Laude Daniel Spencer Stevens, Newark Morgan Makaela Stewart, Mentor Carla Marie Stoll, Wooster

Kaelyn Heather Steele, Mason

Hannah Marie Swanson, Cardington Maana Cum Laude

Jessica Tang, Cleveland Avden Joseph Terrill, Prospect Jared Christopher Thomas, Lancaster Jazmine Monique Thomas, Lima Joel Thomas, Newark Seth Allen Thomas, Coshocton John Ross Thompson, Columbus Ross Tomek, Hilliard Noah James Tornes, Newark Caitlin Marie Traine, Cleveland Joseph George Trivison, Brunswick

Seth Andrew Tumblin, Coshocton DeMarco DeShawn Turner, Dayton Giovanni Hassiel Ulate, Columbus Nicholas Austin Untch. Hilliard Magna Cum Laude

Cum Laude

Joseph Corey Van Oss, Cloverdale Cum Laude

Avery Jack Van Reeth, Zanesville Martha Vandra, Fairview Park Maana Cum Laude Eriberto Francisco Vasquez, Williard

Bridgette Kathleen Vedra, Hilliard Magna Cum Laude

Eve Gabrielle Villaruel, Lima James Augustus Vogel, Cincinnati Spencer Ethan Vorst, Kalida Brooklyn Joy Walczak, Vermilion Mia Elizabeth Walker, Columbus Madalynn Marie Wallace, Columbus Kennedy Katherine Walls, Galena Magna Cum Laude

Bailey Madison Webb, Pataskala Drew Daniel Wehrman, Fort Loramie Grant Mason Weihrauch, Ottawa Amber Welch, Reynoldsburg Christopher Michael Wendling, Lexington Christian Michael Wengerter, New Albany Magna Cum Laude

Josie Madeline Westfall, Gahanna Jireh White, Sunbury Seth David Wicker, Lewis Center Gunnar Wielinski, New Albany Craig L. Wiggins, Canton Joanna Mykala Jean Wilburn, Etna Taylor Danae Wilkinson, Potomac, MD Magna Cum Laude

Morgan Barbara Williams, Pickerington Brady Allan Wilson, St. Louisville Jonah Wilson, Westerville Kyle Jacob Wintering, Hilliard Stephen Krieg Wiswesser, Wadsworth William Francis Wohrle III, Columbus Maana Cum Laud

Elizabeth Ellen Wolfe, Mansfield Lysny Marie Woodahl, Noblesville, IN Nicholas Scott Wright, Glenford Rachel Lynn Wulf, Toledo Kelly Wurth, Springboro Summa Cum Laude

Sarah Elizabeth Yankovich, Blacklick

Caleb Anthony Yoder, Columbus Jeffrey Michael Yohman, Alexandria Summa Cum Laude

Isaac Henry Zachmann, Marion

# The Max M. Fisher College of Business

Dean: Anil K. Makhija

#### Bachelor of Science in **Business Administration**

Morgan Danielle Aaron, Sandusky Yuliya Abukhovich, Columbus

Magna Cum Laude Drew Zubin Acharya, South Barrington, IL Alec Edward Adams, Vermilion Aneeqah Ahmed, Dayton Muzzammil Ahmed, Dublin Magna Cum Laude

Katherine Grace Albin, Sarasota, FL Alec Albright, Lebanon Miesha Milton Alexander, Worthington Magna Cum Laude

Hayley Marie Allen, Maumee

Sean Michael Allen, Laurelville

Tyler James Allen, Lebanon Cum Laude

Kirk Blynn Almendinger, Alexandria Zoe Marie Altenau, Cincinnati Grant Thomas Altenburger, Fort Jennings Samantha Ambris, Painesville

Summa Cum Laude

Jesica Amin, Jakarta, Indonesia Sagar Janti Amrania, Edison, NJ

Erikka Alena Amrine, Hilliard Xuancheng An, Beijing, China Megan Rose Anderson, Brunswick Victoria Lynn Anderson, Wooster Cum Lynd

Robert Noah Andes, Novelty Summa Cum Laude

Benjamin Jeffrey Andrews, Homer Glen, IL Caleb James Andrews, Penfield, NY

Christopher Thomas Angelich, Trabuco Canyon, CA

Ryan Christopher Apicello, Kannapolis, NC Jack Henry Argento, East Rochester, NY Magna Cum Laude

Elena Hend Arida, Westfield, NJ

Summa Cum Laude
with Honors in Business Administration
with Honors Research Distinction in Business
Management

Carolyn Marie Armstrong, Gahanna
Cum Laude

Kathryn Oksana Armstrong, Worthington Magna Cum Laude

Justin Ryan Arwood, Miamisburg Magna Cum Laude

Adam Kristan Asadorian, Olmsted Falls Austin Douglas Ashcraft, Powell Cum Laude

Mohamad Ashishi, West Chester Jonathan Aslo, Dublin Ashley Nichole Atchison, Westerville Magna Cum Laude

Mackenzie Ann Atchison, London
Cum Laude

David Joseph Austin, Selkirk, NY Grace Osahumen Azenabor, Grand Prairie, TX Magna Cum Laude

Shay Steven Bahner, Cincinnati Wenshuang Bai, Dalian, China

Ziwei Bai, Mianyang, China Brianna Ashley Ballengee, Circleville Matthew Patrick Ballweg, St. Charles, IL Alexander Milan Banerjee, Dayton

Audra Renee Banfield, Columbus James Bankert, Annapolis, MD

Summa Cum Laude

Brendan Ross Barger, Towson, MD Evan Douglas Barlow, Cincinnati Etan Barnett, New York, NY Michael Kilbane Barrett, Cleveland Spencer James Batt, Defiance Maxwell Parker Bauman, Sharon, MA Cum Loude

Margaux Rae Baumann, Dobbs Ferry, NY
Cum Laude

Aaron Michael Bays, Lucas Alexander Mark Beaver, Bryan Jacob B. Beck, Oxford Samantha Elizabeth Beckley, Tiffin Cum Laude

Michael Patrick Beckwith, Kent Summa Cum Laude Allison Rose Begg, Findlay

Jessica Rose Begue, Louisville Hannah Marie Behnke, Dublin

Nicolle Elizabeth Beiglarbeigi, Frederick, MD Bryn Christopher Bell, New Albany Magna Cum Laude

Christopher Reed Bell, Cincinnati Elliott Christian Bell, Columbus Kendra Bellmann, Estes Park, CO John Thomas Belluardo, Peninsula

Jordan Anthony Bender, St. Henry Garth Adam Bennett, Cleveland Heights Magna Cum Laude

Matthew Ryan Bennett, Naperville, IL Thomas Hart Bennett, Mentor

Maxwell Simon Bentlage, Copley

Micah Don Bernath, Wauseon Magna Cum Laude

Melissa Rebecca Bernson, Pittsburgh, PA Mason Hunter Bernstein, Owings Mills, MD Cum Laude

Shuting Bi, Guangzhou, China Samuel William Biederman, Columbus Kasey Marie Bingmer, Canal Winchester Alexander Beaumont Birchfield, Cleveland Felicia Marie Bisconti, Akron Magna Cum Laude

Bryce James Bishop, Delaware Taylor Nicole Bishop, Westerville

Stephanie Anne Bitto, North Royalton Austin Blackerby, Canton David Vaile Blakely, Gahanna

Cum Laude Kevin Jacob Blank, Solon Alexander James Bleich, Columbus Austin Blevins, Camden Rachel Elizabeth Bloom, Dayton

Steven Blumenthal, Medina Xiaofan Bo, Shanghai, China Magna Cum Laude

Casey Janel Boardman, Greenwich Grace Abigail Boden, Westerville

Zachery Elton Boerger, Gainesville, GA Dylan Alese Boll, Powell

Anna Christine Boor, Westlake

with Honors in Business Administration

Skye Mallory Booth, Gahanna Kelsey Joan Borer, Ottawa Summa Cum Laude

Alexandra Karina Boustany, Chicago, IL Dimitra Anne Boutselis, Worthington Magna Cum Laude

Tyler Bowman, Westfield, NJ

Bridgette Bailey Boyle, Lewis Center Sydney Leigh Bracale, Westerville

Elizabeth Ann Bradley, Westlake Margo Sempeles Brandenburg, Springboro Emily Braun, Solon Richard William Bremkamp, Rocky River Michael Deitrich Brenkus, Bellville

Daniel Gregory Brennan, Columbus
Cum Laude

Seth Andrew Brennock, Loveland Gavin Thomas Bridegum, Fairview Park Carolyn Briggs, Lincolnshire, IL Hunter Ringling Brightwell, Cincinnati Cum Laude

Jeffrey Michael Brink, Strongsville Amanda Irene Brodzinski, Cuyahoga Falls Julia Taylor Brooks, Columbus James Raymond Brown III, Cleveland Summa Cum Laude

Joseph Michael Brown, Jr., Ridgewood, NJ

Alyssa Taylor Browning, Moorpark, CA Cole Byler Brownsberger, Medina

Mogna Cum Loude
Zachary P. Bryant, Grove City
Ashley Lynn Bryk, North Royalton
Mason Cole Buck, Hebron, KY
Christopher John Buehler, Cumming, GA
Grant Patrick Buehrer, Maumee
Vitali Bukhantsov, New York, NY
Alexander Paul Acebedo Bungabong,

Cagayan de Oro, Philippines Matthew Buono, Cherry Hill, NJ Magna Cum Laude with Honors in Accounting

Andrew Eugene Burzynski, Lewis Center Robert Busam, Jericho, NY Audrey Elaine Bussert, Carroll Emory Butcheck, Solon Holly Marie Butler, Cincinnati John Lucas Butya, Coraopolis, PA Benjamin Paul Butz, Maineville Peyton Ashley Bykowski, Lincolnshire, IL Monan Cum Loude

Mary Katherine Callahan, Cheverly, MD Michael Emil Callender, Pittsburgh, PA Magna Cum Laude

Kennedy Maurae Cameron, Cleveland Magna Cum Laude

Alex James Campana, Twinsburg Magna Cum Laude with Honors in Business Administration

Aaron Wesley Campanella, Lutz, FL Lisetta Vittoria Cannavaro, Providence, RI Cum Laude

Elizabeth Hannah Canter, Lebanon
Magna Cum Laude

Wengang Cao, Nanchang, China Marissa Luisa Caponi, Cuyahoga Falls Luke Edward Caputo, Gainesville, FL Philip Joseph Carballeira, East Setauket, NY James Andrew Carlisle, Newark Cum Loude

Naomi Nicole Carpenter, Nashport Katherine Carr, Spencerport, NY Cum Laude

Stephanie Anne Carrocce, Canfield Michael McLaughlin Carroll, Jr., Glenview, IL Dylan Michael Caruso, Willoughby Lindsey Michelle Casher, Delaware Christina Marie Cassidy, Gibsonia, PA Monan Cum Loude

Kelsey Lynne Cassidy, West Chester
Cum Laude

Madison Elyse Castelein, Alamo, CA

Dillon John Castelli, Dublin Summa Cum Laude

Edina Celic, Cuyahoga Falls

Cum Laude

Andrew Eugene Chaffin, Dublin Chun Yu Chan, Hong Kong Hanwen Chang, Tianjin, China Kaylen Yuna Chang, Dublin Magno Cum Laude

Yaozhi Chang, Changzhi, China Daniel Shawn Chapman, Alexandria Michael Aaron Chase, Jericho, NY Julie Ann Chastang, Cincinnati Cum Laude

Bernard Andrew Cheezum III, Centreville, MD

Magna Cum Laude

Danny Chehade, Broadview Heights Summa Cum Laude

with Honors in Accounting

Colin Randall Chell, Bel Air, MD

Bingxin Chen, Shenzhen, China Magna Cum Laude Hung-Chi Chen, Taipei, Taiwan

Magna Cum Laude

Jiameng Chen, Taizhou, Zhejiang, China
Summa Cum Laude

Jiaqi Chen, Ningbo, China

Mengqi Chen, Jiujiang City, China

Maana Cum Laude

Nan Chen, Nantong City, China Simin Chen, Huanggang, China Cum Laude

Siyue Chen, Hefei, China Ting Chen, Mason Tingxu Chen, Nanjing, China Vicky Chen, Cleveland Magna Cum Laude

Xing Chen, Linfen, China Magna Cum Laude

Yinfeng Chen, Rulan, China Yujin Chen, Anhui, China Summa Cum Laude

Zinan Chen, Chengdu, China Cum Laude

Dishuang Cheng, Jinzhong, China Cum Laude

Kwankit Cheng, Hong Kong, China Ryan David Cheng, Westerville Michael Vincent Chhabra, Columbus Dianna Ly Chiem, Lima Joseph Michael Chilleo, Bridgeville, PA Nathaniel Louis Chipman, Cincinnati Cum Loude

Allison Leigh Christian, Medina Marlee Noel Christian, Columbus Yuqing Chu, Zhengzhou, China Magna Cum Laude

Eric Junsu Chun, Greensboro, NC Magna Cum Laude

Conner Patrick Church, Wilmington, NC Emily Danielle Church, Hilliard Maggie Beth Chwalek, Marietta

with Honors in Business Administration with Honors Research Distinction in Marketing Justin Douglas Ciferno, Cleveland

Ryan Evan Cira, Beachwood

Cum Laude

David Mitchell Claggett, Newark

Cum Laude

Brian Daniel Clark, Cleveland Heights Eric Edward Clark, Delphos Cum Laude Tanner Elizabeth Clarke, Rochester Hills, MI

Sydney Katherine Claus, Solon Daniel Robert Clement, Solon Emily Clymer, Findlay Chelsey Marie Cochran, Newton Falls Lauren Ashley Coffman, Urbana Alexa Cohen, Palinivew, NY Alexis Sara Cohen. Fairlawn

Kyle Morgan Cohen, Scarsdale, NY Magna Cum Laude

Cum Laude

Elana Colangelo, West Hartford, CT Magna Cum Laude

Garrett Allen Colburn, Circleville Lydia Anne Coldiron, McCutchenville Adriana Camille-Notardonato Cole, Westlake Magna Cum Laude

Nia Imani Coleman, Reynoldsburg Cum Laude

Samuel David Coleman, Shelby
Cum Laude

Michael Colgan, New Albany Magna Cum Laude Haley Ilene Collins, West Chester

Magna Cum Laude
Sarah Elico Collins, Canal Winchosto

Sarah Elise Collins, Canal Winchester Summa Cum Laude Shelbi Lynn Collins, Galion

Samuel James Conkright, Mason

Magna Cum Laude

Chelsea Conley Springfield

Chelsea Conley, Springfield Michael James Conlin, Merrimack, NH Summa Cum Laude

Martin John Conroy, Avon
Ryan Joseph Conry, Shaker Heights
Olivia Maureen Conti, Pittsford, NY
Caroline Conway, Cleveland Heights
Anastasia Alyssa Cook, Canfield
Julia Ariel Cooper, Melville, NY
Jacob Copley, Buffalo Grove, IL
Robert Lafe Coram III, Indianapolis, IN
Magna Cum Laude

Dante Michael Cornicelli, Warren Magna Cum Laude

Adam Campbell Cotsmire, Crestline

Katherine Jo Ann Courson, New Albany Magna Cum Laude

Andrew Bradley Cox, Toledo Sarah Alicenoel Crabbe, Chicago, IL Cameron Cramer, Cincinnati

Matthew Joseph Creel, Fairfax, VA Magna Cum Laude

Magna Cum Laude

Madison Rae Creps, Perrysburg

Cum Laude

Julia Rose Crisenbery, Lebanon Magna Cum Laude

Jason John Criss, Wintersville Evan Steven Crites, Lima Gabrielle Rae Croci, Sylvania

Isabella Lin Cromleigh, Strongsville Magna Cum Laude

Christopher Thomas Cron, Fletcher Magna Cum Laude

Blake Crowley, Cincinnati Emma Blake Crugnale, Port Jefferson, NY Paul Csarny, Solon Christopher James Cua, Dover Magna Cum Laude

Nikolina Cuca, Rockford, IL

Coleman Alan Cunningham, Lewis Center

Sarah Marie Cuppett, Medina Mary Curme, Oxford

Lucas Edward Curran, Westerville

Audrey Elizabeth Dahill, Rocky River Cum Laude

Annelise Rose Dahl, Worthington
Summa Cum Laude

with Honors in Business Administration Alex James Dailey, Massillon Kylie MacKenzie Danehy, Prospect, KY Senay Daniel, Pickerington Cum Loude

Wesley Stephen Dantzler, Sykesville, MD

Michael Alexander David, Cincinnati Cody James Davis, Warren

Isabella Fisher Dawes, Hilliard
Summa Cum Laude
Christina Maria Dawson, Columbus

Magna Cum Laude
Davis James Day, Canton, MI

Cum Laude
Julia Therese Dean, Brecksville
Magna Cum Laude

Samantha Dean, Saratoga Springs, NY

Alison Brigid DeCrane, Cleveland Darnell Andrew Dees, Cincinnati Charles Hanauer Deitschmann, Jacksonville, FL

Franklin DelGado, Dublin
Amanda Marie Dellinger, Marysville

with Honors in Accounting
Nicole Marie DeLoye, Russia
Summa Cum Laude

Kevin DeMoss, Gibsonia, PA William Christopher Dempster, Doylestown, PA Harley Ann DeNoto, Pittsford, NY Kaitlyn Clare Desilva, Aurora

Julia Elizabeth Diamantopoulos, Westfield, NJ Rachel Elizabeth Dickey, Youngstown Summa Cum Laude

Michael Alexander Diemert, Strongsville Haley Renee Dieter, Warren Cum Laude

Dustin Taylor Dillon, London Haley Nicole Dillon, Springfield Fang Ding, Ningbo, China

Cum Laude
Mitchell Ryan Doherty, Buffalo, NY
Matthew Harrison Dolan, East Windsor, NJ
Summa Cum Laude

Devin Edward Dombrowski, Columbia Station Anthony Michael Donagan, McFarland, WI Cum Laude

Brandon Thomas Donelan, Strongsville

Cindy Dong, Cleveland

Mojun Dong, Beijing, China

Trevor Linwood Dowd, Dayton

David Ryan Downey, Medina Mason Thomas Dray, Mansfield Cum Laude

Ana Drazetic, Mentor Mitchell Dreisbach, Columbus

Brian Drellishak, Avon Jonathan Dalton Driscoll, Marysville Amari Aiyana Dryden, Louisville, KY Yilin Du, Beijing, China

Addison Grace Duchesne, Reynoldsburg

Magna Cum Laude

Sydney Elissa Dudley, Loveland Magna Cum Laude

Nicholas Dummitt, Alexandria Alexandra Marie Dunn, New Albany Alejandro Duque, Lexington, KY

Daniel James Durrin, Avon Cum Laude

Tiffani Marie DuScheid, Dublin Magna Cum Laude Franchesca Dutra, Hermosa Beach, CA Chandler Scott Eash, Gambier

Cum Laude
Aaron Michael Ebbert, St. Clairsville
Magna Cum Laude

Matthew Alexander Ebeling, Villa Park, IL Madeline Shea Echeverria, Severna Park, MD

Derek Alan Eckstein, Washington Court House

Alexandra Danielle Edwards, Marion Brandon Gatewood Edwards, Pickerington William Tucker Edwards, San Diego, CA Cum Laude

Sheryl Lavin Ehlbeck, Andover, MA Magna Cum Laude

Max Geoffrey Eicher, Akron Tyler John Eichhorn, Beavercreek Eric Brian Eichler, Liberty Township Conner Eitel, Circleville Muhammad Hazio Flias, Perak, Mal

Muhammad Haziq Elias, Perak, Malaysia *Cum Laude* Cameron James Elkins, Stamford, CT

Cum Laude
Anderson Parker Ellis, Chagrin Falls

Cum Laude
Austin Martin Ellis, Warren
Colin T. Engel, Centerville
Hannah Dorothy-Ann Engler,

Holland/Perrysburg
Rebekah Mae Engler, Oxford, MI

Rachel Ann Entrup, Cincinnati Magna Cum Laude

Bari Epstein, Cleveland

Rachel Ann Ernest, Lima

Michael James Essig, Westlake Summa Cum Laude

Aaron Charles Estrel, Sylvania Summa Cum Laude

with Honors in Business Administration with Honors Research Distinction in Finance

Sarah Michelle Eusanio, Painesville Cum Laude

Emma Eustis, Waterloo, IL

Dustin Lee Evans, Westerville Oliver Barry Evans, Newark Sarah Lynn Everhart, Bainbridge Magna Cum Laude

with Honors in Business Administration Stephen Evrard, Pittsburgh, PA

Benjamin James Eyssen, Brunswick Magna Cum Laude

Stefanos Fakoukakis, Cincinnati Marieme Garmy Fall, Cincinnati Kaiqi Fan, Guangzhou, China Magna Cum Laude

Lingxiu Fan, Ningbo, China Magna Cum Laude Zeyu Fan, Tianjin, China

Magna Cum Laude
Nicolette Rae Faragalli, Toms River, NJ

Nicolette Rae Faragalli, Ioms River, N Cum Laude Fuad Christopher Farah, Canton

Summa Cum Laude Kenneth Michael Farmer, Hudson

Magna Cum Laude

Joshua Alan Farr. Dublin

Gabrielle Marie Fatzinger, North Canton

Cum Laude

Connor Benjamin Favre, Avon, CT Le Feng, Foshan, China

Magna Cum Laude Robert Lawrence Fenik, Avon Lake

Lyle Dean Fenton, Cleveland

Magna Cum Laude

Rena Ferrara, Wexford, PA

Magna Cum Laude
with Honors in Business Administration

Westin Richard Fiehrer, Glendale Kaylee Danielle Fields, Mechanicsburg, PA Cum Laude

Daniel Stephen Filuta, Strongsville Cum Laude

Barry Dominic Finneran, Marysville

Cum Laude

Nathan Jerome Finneran, Powell Louis Anthony Firmstone, Powell Thomas Braydon Fischer, Cincinnati Kenneth Earl Fisher, Orange Summa Cum Laude

Emily Ann Fitzgerald, Washington Crossing, PA John Michael Flannery, Rocky River Matthew R. Fleming, Plain City Meredith Liana Flury, Silver Lake Ndemafia Fobellah, Westerville Brittney Rae Folisi, Eden Prairie, MN

Anna Elisabeth Foote, Long Valley, NJ Brian Foreman, East Setauket, NY

Cum Laude Benjamin Fournier, Dublin Drue Fowler, Cincinnati Ryan James Fowler, Dublin Magna Cum Laude

Patricia Marie Fox, Columbus Liam Donald Foxe, Palisades, NY Micala Marie France, Dublin Cum Laude

Bailey James Francis, Russia

Mia Francisco, Jackson, NJ Ryan Taylor Frank, Strongsville Magna Cum Laude

Magna Cum Laude with Honors in Accounting Ryan Matthew Frey, Cincinnati
Cum Loude
Charles Workman Friend, Pittsburgh, PA
Benjamin Thomas Fritz, Powell
Magna Cum Loude
Craig Richard Fruth, Crestline
Magna Cum Loude
Jiaqi Fu, Dalian, China
Maria Yu Fu, West Chester
Cum Loude

Scott Timothy Fulton, Lewis Center Magna Cum Laude Abigail Marie Funk, Massillon

Summa Cum Laude

Madeline Furash, Upper Arlington

Magna Cum Laude

with Honors in Business Administration

Courtney Elizabeth Furmaga, Grand Rapids, MI

Cum Laude

Michael Charles Gaffney, Hudson Christopher Clifford Gagnon, Birmingham, MI Summa Cum Laude

Emma Mary Galasso, Columbus

Cum Laude

Amanda Natalie Gall. Svlvania

Cum Laude Roberto Manuel Gallinar, Coral Gables, FL William James Gallucci, La Grange Park, IL

Christopher Thomas Gangl, Cincinnati Magna Cum Laude Jessica Gao, New Philadelphia

Meiwen Gao, Beijing, China Magna Cum Laude

Shuai Gao, Xi'an, China Yiran Erin Gao, Troy, MI Ryan Garcar, Northfield Magna Cum Laude

Cum Laude

Katharine Ann Garrett, Blair, NE
Summa Cum Laude
with Honors in Accounting

John Dean Garriott, Bedford, IN Joshua Gary, Waldo Logan Raymond Gaskey, Long Grove, IL Rayen Schviur Danielle Gaston, Pickering

Raven Schylur Danielle Gaston, Pickerington Carlos Ruben Gaztambide, Guaynabo, Puerto Rico

Weizhong Ge, Hillsborough Magna Cum Laude with Honors in Accounting Matthew Robert Geig, Seville

Cum Laude Victoria Shannon Geiger, Huber Heights

Olivia Grace Gelder, Cincinnati Ross Bradley George, Mason Bernadette Lynn Geraghty, Austinburg Arman Gerami, Cleveland

Pavel Max Gerasimov, Chesapeake, VA Magna Cum Laude Andrew Thomas Gerber, North Canton

Jonathan Phillip Gero, Strongsville Summa Cum Laude Lisa Tamar Gertie, North Barrington, IL

Andrew Conrad Getz, Bexley

Cum Laude

Austin Highsmith Gewecke, Pasadena, CA

Cum Laude

with Honors in Rusiness Administration

with Honors in Business Administration

Albert Joseph Giammaria III, Twinsburg

Cum Laude

Stephen John Giba, Bel Air, MD

Lucas Lynn Gibson, Convoy Hannah Katherine Gifford, Lewis Center Magna Cum Laude

Aaron Timothy Gilkey, Cincinnati Christina Gill, Aurora Zachary James Gillam, Melville, NY Alexander Jeffrey Gilley, West Chester

Paul Girard, Dearborn, MI

Shelby Gledhill, Crestline Magna Cum Laude

Michael Timothy Glomski, Grafton, WI Magna Cum Laude with Honors in Accounting

lan Michael Goertzen, Čincinnati Lakyn Grace Goff, New Albany Jose Adam Gomez, Elmhurst, IL Madison Krystine Gomez, Schererville, IN Megan Marie Gonya, Hamilton

Jaime Goode, Seaford, NY Magna Cum Laude Kevin John Goodrich, Strongsville Molly Elaine Goodwin, Westlake Tyler James Gorbett, Galion

Cum Laude

Magna Cum Laude Lori Ann Gordon, Hammondsport, NY Magna Cum Laude

Rachel Kaye Gordon, Van Wert Matthew Thomas Gottshall, Avon Lake Magna Cum Laude

Chad Michael Goubeaux, Springboro

Mark Charles Grabon, Hillsborough, NJ Summa Cum Laude

Kassandra Jean Graham, Cincinnati Magna Cum Laude

William Christian Grant, Miamisburg Alex Bowen Grazia, Chesterland Calvert Lawrence Green, Farmington, CT Robert Williams Green, Hattiesburg, MS Yuval Greenshtein, New Albany Rachel Michele Griffin, Dublin

Richard Thomas Griffin, Columbus Lucas Tyler Griffith, Toronto Madelyn Sarah Grimm, Atwater Magno Cum Laude

Veronica Leigh Groebner, Rockford, IL

Cum Laude

Nathan Grose, Cleveland Benjamin Robert Grueser, Donnelsville Cum Laude

Maria Isabella Grund, Columbus Summa Cum Laude

Xiaoxiao Gu, Shijiazhuang, China Qinghe Gui, Hangzhou, China Cum Laude

Joseph Michael Guinan III, River Forest, IL Duran Ali Guled, Columbus Angel Guo, Milford

Magna Cum Laude Sonal Gupta, Dayton Magna Cum Laude

Elaina Guth, Mansfield Alexander T. Haberman, Delaware

Nicole Marie Haddad, Westlake Summa Cum Laude

Megan Stephanie Hageman, Dayton Magna Cum Laude Colleen Marie Haggerty, Oceanside, NY
Cum Laude

Benjamin Michael Haller, Chillicothe Erin Lorraine Halleran, Pittsburgh, PA

Anna Elizabeth Halley, Sandusky Trey Nicholas Hallock, Norwalk Joshua Halm, Dublin

Liv Ingrid Halvorson, Richfield, MN Katherine Lynn Hamlin, Akron

Connor Hammalian, Woodcliff Lake, NJ Hannah Jo Hammeren, Olmsted Falls Benjamen N. Hammons, Richwood Mark F. Handel, Boardman Melinda Beth Hannon, Poland Manna Cum Laude

Xudong Hao, Erdos, Inner Mongolia, China Magna Cum Laude

Sofia Christina Haramis, Roseland, NJ Victoria Nicole Hardesty, Spencerville Anne Elizabeth Harding, Dublin Kevin Wayne Harrish, Newnan, GA Karlene Harrison, Westerville Cum Loude

Michael Gregory Hart, Galloway Mitchell Edward Harter, North Bend Stacy Lee Hartings, Maria Stein Mogna Cum Laude

Trachelle Renae Hartley, Corning John Sebastian Hartofillis, Wadsworth

Ismail A. Hassan, Columbus David Matthias Hauck, Cincinnati Yanfei Haugen, Yantai, China Magna Cum Laude

Emily Marie Hayden, North Canton Kyle Ray Haynam, Canton Magna Cum Laude

Wei He, Guangzhou City, China Magna Cum Laude Zhufeng He, Beijing, China

Zhufeng He, Beijing, China Robert Eugene Head, Jr., Silver Lake Cum Laude

Allison Lee Hebert, Cincinnati Cum Laude

Krista Lynne Heggem, Cincinnati Jackson David Heideman, Doylestown Magna Cum Laude

Jared Walter Heidotting, Cincinnati Matthew Alexander Heiner, Stevensville, MD Max Christian Heintel, Avon Lake Samuel Aaron Helfman, Irvine, CA Jake M. Helton, South Euclid Logan Daniel Hendricks, Marion

Summa Cum Laude

Natalie Anne Hendrix, Lewis Center
Mark Henry Heneman, Dublin
Maana Cum Laude

Thomas Martin Hennessy, Des Plains, IL
Jacob Scott Henson, Troy
Joseph Lee Henson, Troy
Joseph Lee Henson, Troy
Moseph Lee Henson, Troy
Jacob Emerich Herbst, Shaker Heights
Kyle Patrick Herman, Columbus
Mitchell Herman, Cleveland
Raymond E. Herrera, Long Island, NY
Dalyn Lee Herrmann, Medina
Cody Tyler James Hess, Kettering
Ethan R. Hessler, Dayton
Cum Loude

Alexander James Hickey, Aurora Magna Cum Laude

Claire Marie Hickey, Lewis Center Magna Cum Laude with Honors in Accounting

Kyle Hido, Chagrin Falls Magna Cum Laude

Jessica Elizabeth Hilk, Saginaw, MI Joshua Thomas Hill, Ashville Ryan Andrew Hines, Pleasant Hill Magan Cum Laude

Kylie Nicole Hislope, Worthington Trevor Hodgins, Spencerport, NY Aidan John Kasson Hodgson, Agoura Hills, CA Cum Laude

Hannah Marie Hoffer, Maineville Magna Cum Laude

Benjamin David Hoffman, Fairfield Jared Paul Hoffman, Hudson Owen Gregory Hoffman, Gibsonia, PA Connor Thomas Hogan, New Lenox, IL Anne Marie Hohler, Mooresville, NC Mogno Cum Laude

Teddy Nelson Holcomb, Shaker Heights

Cum Laude

Amanda Holl, Uniontown Conor Joseph Hollern, Westerville Sungjoon Hong, Columbus Yizhou Hong, Ningbo, China Cum Laude

Alexis Nicole Hooker, Tinley Park, IL Thomas Macklin Hooker, Branchville, NJ Mason Scot Hopfensperger, Lebanon Ann O'Hara Hopkins, Chagrin Falls Timothy Marcus Hoque, Marysville Samuel Nathan Horen, Farmington, CT

Cum Laude with Honors Research Distinction in Economics in

Business

Joshua Horning, Stow Rachel Elizabeth Horvath, Medina

with Honors in Business Administration
with Honors Research Distinction in Operations
Management

Harrison Redd Hott, Westerville
Cum Laude

Bolin Hou, Shenzhen City, China Cum Laude

Jiawei Hou, Tianjin, China Magna Cum Laude Mariglen Hoxha, Gahanna

Matthew Daniel Hoyt, Sandy Hook, CT Li-Fu Hsu, Taipei, Taiwan Cum Laude

Yu Hu, Beijing,China Summa Cum Laude

Andrew Huang, Cleveland Magna Cum Laude

Hsin-Chiao Huang, Columbus Jingyi Huang, Beijing, China Magna Cum Laude

Junran Huang, Chongqing, China Yuchen Huang, Xi'an, China Magna Cum Laude

Gregory D. Hubbard, Jr., Miamisburg Samuel Marc Huddle, Westerville Patrick Burns Hudec, North Royalton Hayley Regena Hughes, Hilliard Magna Cum Laude

Alexis Sienna Hull, Shaker Heights Summa Cum Laude Duncan Liam Hume, Foothill Ranch, CA Claudia Carroll Hummel, Upper Arlington Cum Laude

Sharisse Nikohl Hunt, Ashtabula Yuxiao Huo, Lanzhou City, China David Quang Huynh, Dublin Patrick Donald Hynes, Olmsted Township

Mary Katherine Iacobino, Columbus

Joseph Lee Ickes, Howard Karl Robert Icsman, Akron Sofia Binti Ihsan, Subang Jaya, Malaysia

Gregory P. Incollingo, Cherry Hill, NJ

Nathan Alexander Ip, Naperville, IL Cum Laude

Curtiss Cash Irving, Greenfield, IN Jake Irwin, Melville, NY Magna Cum Laude

Joshua Mark Isler, Copley Magna Cum Laude

Madeleine Ives, Arlington Heights, IL

Magna Cum Laude

Clark Connor Jackman, Dublin, CA Christopher Scott Jackson, Franklin, TN Cum Loude

Manit Raj Jain, Copley Rupali Jain, Cincinnati

Matthew Leon Jandziszak, North Royalton
Cum Laude

Matthew Alan Janes, Akron
Cum Laude

Patrick Ivan Jefferson, Pittsford, NY Sara Elizabeth Jellinek, Doylestown, PA Matthew James Jenkins, Cincinnati Benjamin Adam Jessberger, New Albany Cum Loude

Nawei Jiang, Changsha, China Summa Cum Laude

Xiangxinzhou Jiang, Wuxi, China Yichen Jiang, Shenzhen, China Yizheng Jiang, Hangzhou City, China Cum Laude

Jie Jin, Hangzhou, China Magna Cum Laude

Josh James Jirjis, Green Hills, TN Nur Syakila Johari, Puchong, Malaysia

Austen Grey Johnson, Woodridge, IL

Magna Cum Laude

Hunter Rolland Johnson, Omaha, NE

Kyle Ananda Jones, Fredericktown Nathaniel Robert Jones, New Albany Magna Cum Laude

Trent Molihan Jones, Dublin Nicholas Allen Joy, Massillon

Magna Cum Laude with Honors in Business Administration

Cameron Joseph Kaiser, Toledo

Navneet Singh Kala, Hudson Thomas John Kalvas III, Brecksville Thomas Michael Kancyan, Streetsboro

Alexander James Kantorik-Busser, Westlake Rafael Alberto Kapell, Houston, TX Magna Cum Laude

Emily Grace Kasper, Cuyahoga Falls

Michael Peter Katsaros, Westlake Jacob Katz, Westerville

Cum Laude
Brian Kavalec, Cleveland
Chelsea Anne Kavanaugh, Mason
Zagrous Kawarizadeh, New Albany
Haochen Ke, Hangzhou City, China
Yicheng Ke, Changshu, China
Magdalene Anne Kearns, Russia
Joseph Thomas Keating, Xenia
Kyle Edward Keber, Ohio City

Kyle Edward Keber, Ohio City Matthew Scott Keen, Columbus Daniel Robert Keener, Westerville Laura Ann Kehres, Mason

Noah Alexander Keighley, Westerville Tyler Daniel Keister, Dublin

Emmett Milous Keith-Jones, Temecula, CA Cliona Anne-Marie Kelleher, Manlius, NY Maana Cum Laude

Jillian Keller, Oregon Magna Cum Laude

Cum Laude

Cum Laude

John Richardson Kelly, Jr., Towson, MD Kaitlyn Kelly, Freehold, NJ Timothy Kelly, Smithtown, NY

Magna Cum Laude with Honors in Business Administration

Danielle Rosaire Kennedy, Lewis Center Ian Patrick Kennedy, Portland Summa Cum Laude

Nicholas Joseph Kennelly, Pompton Plains, NJ Cole Joseph Keny, Bexley Magna Cum Laude

Adam J. Kerr, Strongsville Summa Cum Laude

James Edward Kilcorse, Toledo Magna Cum Laude

Ji Hoon Kim, Seoul, Korea

Chauncey Lee Kimble, Pickerington Jacob Alexander King, Dublin Magna Cum Laude

Darcy Leigh Kircher, Maineville Molly Anne Kirkham, Columbus Kelsey Louise Kirkpatrick, Galloway

Cum Laude Ryan Kissig, Madison Magna Cum Laude

Andrew Nathan Kitay, Beachwood
Summa Cum Laude

with Honors in Accounting

Sarah Elizabeth Klepzig, Sylvania Hallie Elizabeth Klieman, Buffalo Grove, IL

Dean James Klimczyk, Cleveland
Cum Laude

Joseph Kline, Louisville, KY Summa Cum Laude

with Honors in Business Administration Anna Knappenberger, Cincinnati

Anna Knappenberger, Cincinnati Matthew Jeffrey Kneisel, Amherst

Gregory Wiley Knox, Sea Cliff, NY Steven Andrew Koesterman, Montgomery Steven Rudolph Kolich, Green

Brooke Anne Komm, Cleveland Yu Kong, Shaoxing, China Summa Cum Laude

Megan Konrad, Westlake

Jacob Lindy Koplan, Potomac, MD Jordan Alexander Kopman, Cincinnati

Michael Robert Marconi Korn, Palatine, IL Magna Cum Laude with Honors in Business Administration

with Honors Research Distinction in Finance Robert Edwin Kornack, Austintown Mary Katherine Koss, Mokena, IL Austin Lewis Kotler, Plainview, NY Cum Laude

Brian Patrick Kountz, Crystal Lake, IL

Corey Kovaleski, Pickerington Jacob Benjamin Kowal, Dayton

Jacob William Kowalczyk, Cleveland Kaleigh Elizabeth Kozek, Milford, CT Michael Rudolph Krafft, Cortland Erika Leigh Krausz, Perrysburg Trenton Michael Krol, Brunswick Ryan Douglas Krucke, Brunswick Kevin Thomas Kruse, Bucyrus Kevin Kuang, Maple Heights Benjamin Julius Kubrick, Pittsburgh, PA Benjamin Julius Kubrick, Pittsburgh, PA

Garet Rayne Kuecher, Uhrichsville Joshua David Kuhlman, Petoskey, MI Cum Laude

Summa Cum Laude

Jobby Dani Kurian, Columbus Jared Scott Kurz, Olmsted Township Dylan Michael Lackey, Lexington, KY Nicholas James Laffin, Holbrook, NY Ryane Shelby Lake, Marlboro, NJ Mogna Cum Laude

Erica Hoi-Yan Lam, Middlefield Tina Lam, Columbus Kyle Allen Lamalie, Fremont

Magna Cum Laude
Brian Patrick Lamb, Strongsville
Benjamin Philip Lampe, Columbus
Magna Cum Laude

Michelle K. Lang, Elmhurst, IL Jacob Gene Larger, Vandalia Darby Marie Lasure, Hebron Joseph Kelly Latkovich, Willoughby Magna Cum Laude

Griffin Alexander Lau, Mentor Magna Cum Laude

Dylon Andrew Lause, Lima John Thomas LaVange, Warren Summa Cum Laude

Megan Elizabeth Law, Hilliard Ian Lawson, Westerville Thomas Christopher Laycock, Cleveland Michael Benjamin Laykind, Plainview, NY Adrea Kim Le, Columbus Adam Michael Lee, Solon

Magna Cum Laude

with Honors in Business Administration

Elizabeth Lee, US Minor Outlying Islands Oi Ti Lee, Hong Kong, Hong Kong Yee Sian Lee, Batu Pahat, Malaysia Magna Cum Laude

Matthew Leightman, Bellaire, TX
Cum Laude

Mitchell Richard George Leitch, Dublin Jessica Lynn Lenkey, Powell Connor Michael Leonard, Oakland, ME Robert M. Lerer, Maineville Maana Cum Laude

Camden Addison Levine, North Franklin, CT

Joshua Alec Levine, Scarsdale, NY Rebecca Celia Levine, Rye Brook, NY Steven Alexander Levkoff, Sharon, MA Stephen Stenbeck Lewis, Riverside, CT with Hanges in Accounting

Jiaxuan Li, Beijing, China Magna Cum Laude

with Honors in Business Administration with Honors Research Distinction in Finance

Kun Li, Shenzhen, China Magna Cum Laude Kun Li, Harbin, China

Linda Li, Westerville Lu Li, Taiyuan, China Summa Cum Laude

with Honors in Accounting Muzi Li, Hefei, China Ruihong Li, Lanzhou, China

Magna Cum Laude Shaoqing Li, Jinan City, China

Magna Cum Laude Shiyi Li, Beijing City, China

Shiyi Li, Beijing City, China Cum Laude

Siqi Li, Beijing, China Xinyue Li, Qingdao, Shandong, China Magna Cum Laude

Xuyu Li, Qingdao, China Summa Cum Laude

Yijing Li, Zhejiang, China Yingxiao Li, Hefei, China Magna Cum Laude

Yiyang Li, Zhongxiang, China Summa Cum Laude

Yumeng Li, Zhengzhou, China Magna Cum Laude

Zhuo Li, Ji'nan, China Maana Cum Laude

with Honors in Business Administration with Honors Research Distinction in Finance

Dong Liang, Wuhan, China Cum Laude

Yijia Liang, Shijiazhuang, China

Eric George Liddell, Mason
Magna Cum Laude

Joshua Fredrick Liebes-McClellan, Sylvania
Summa Cum Laude

Matthew Aaron Lilien, Pittsburgh, PA Ching Hwang Lim, Subang Jaya, Malaysia Lucy Marie Limke, Milford

Cum Laude Hongbaoyan Lin, Xi'An, China Pinyi Lin, Nanyang, Henan, China

Siya Lin, Yangzhou, China Summa Cum Laude

Xinying Lin, Beijing City, China Zhe Lin, Chengdu, China

Ziming Lin, Changchun City, China

Zixuan Lin, Zigong, China

Evan Taylor Lingrel, Powell Magna Cum Laude

with Honors in Business Administration with Honors Research Distinction in Finance

Charlotte Rose Link, Lakewood Ryan Jeffery Linker, Euclid Cum Laude

Colin Turbett Lippincott, Akron
Summa Cum Laude

Andrew Robert Little, Columbus
Cong Liu, Tianjin, China
Cum Loude
Shijie Liu, Dalian, China
Cum Loude
Wenxin Liu, Kunshan, China
Cum Loude
Xiqiao Liu, Dalian, China
Magno Cum Loude
Yao-Yu Liu, Cincinnati
Yi Liu, Zhengzhou, China
Cum Loude
Zehui Liu, Shenzhen, China
Zequi Liu, Shenzhen, China
Zequi Liu, Beijing, China

Magna Cum Laude Gered Brandt Lockwood, Milford Daniel James Lopresti, Cranberry Township, PA

Jeremy Richard Lott, Morristown, NJ

Jordan McKenna Lovely, Camden Cum Laude with Honors in Business Administration

Luke Weijun Low-Pitroff, Dublin Anqi Lu, Yantai, China

Jiaxin Lu, Xi'an, China Magna Cum Laude Robert Lu, New Albany

Cum Laude Shiyi Lu, Shanghai, China Cum Laude

Wenxin Luan, Nanjing, China Yixin Luan, Qingdao, China Christopher Matthew Lubrano, Green Brook, NJ

Magna Cum Laude Allison Taylor Lucas, Worthington Cum Laude

Natasha Lynn Lucas, Dublin Daniel Patrick Lucia, Powell Nicholas Hunter Lucidi, Moorestown, NJ Cum Laude

Andrew Scott Ludwig, Centerville
Krista Eve Lugo, Congers, NY
Hannah Alyse Luhring, Sycamore
Alexandra Michele Lukacs, Glen Allen, VA
Moano Cum Loude

Dean Lumish, Woodbury, NY Yunfei Luo, Zhongshan, China Magna Cum Laude Yi Lv, Penglai, China

Magna Cum Laude Elaine Ly, West Covina, CA

Cum Laude
Joseph John Lynn III, Medford, NJ

Cum Laude
Shiyu Ma, Henan, China

Magna Cum Laude Xiaoxiao Ma, Chengdu, China

Cum Laude Yaoshitu Ma, Beijing, China Maana Cum Laude

Travis Norbert Maas, Leipsic Taylor Lauren Macaulay, Oakwood Matthew T. MacLean, Mason

Anna Rose Maconachy, Westerville Jehan Homyar Madan, Mason

Nicholas Kenneth Maglic, Cleveland Ryan Hunter Mahan, Hudson Mitchell Thomas Maher, Springboro Magna Cum Laude

Anthony Jordan Mahmud, Lewis Center
Magna Cum Laude

Marissa Lynn Maiorca, Avon Lake Connor Levy Mandalla, Brecksville Jacob Michael Mandel, Dublin

Divya Maran, Dublin Elita Christine Marchetti, Mars, PA Summa Cum Laude

Summa Cum Laude with Honors in Accounting Morgan Danielle Marcus, Buffalo Grove, IL

Magna Cum Laude Alessandra Maria Margello, Powell

Cum Laude
Thomas John Mariniello, Lincroft, NJ

with Honors in Business Administration Madison Marino, New York, NY

Cum Laude

Madison Marino, New York, NY
Magna Cum Laude
Sophie Alyn Marion, Excelsior, MN

Jesse Trevor Markowitz, Smithtown, NY Magna Cum Laude with Honors in Business Administration

Justin Taylor Markowitz, Morganville, NJ Kyra Elizabeth Marks, Perrysburg Magna Cum Laude

Victoria Marra, Gates Mills Cody Aaron Marshall, Dublin Cum Laude

Kayla Mitsuko Marshall, Tipp City Austin Ray Marsico, Pickerington Adam Edward Martin, Latrobe, PA

Magna Cum Laude with Honors in Business Administration

Laura Ashley Martin, Hilliard Madeline Hope Masaryk, Cleveland Magna Cum Laude Faith Miriah Mason, Pickerington

Cum Laude

Mark William Matheny, Middletown, DE

Kevin William Mather, Independence
Cum Laude

with Honors in Integrated Business and Engineering Logan Todd Howard Mathes, Blanchester Mark Salvatore Matzinger, Westlake

Summa Cum Loude
Jocelyn Antionette May, Upper Marlboro, MD Lindsey Elizabeth May, Hilliard Zachary Mayer, Belle Mead, NJ

Jasmine CeDana Mays, Atlanta, GA Matthew Ryan Mayville, Blacklick Adam James Mazey, Warren

Sarah Marie Mazurek, Schaumburg, IL Magna Cum Laude

Jacob Tyler Mazzeo, Westerville Katherine Rose McAllister-Spilg, Cary, IL Ellen Brennan McCabe, Lakewood Magna Cum Laude

Andrew Tucker McCarthy, Burr Ridge, IL Hannah Araujo McCarthy, Westlake Magna Cum Laude

Joseph Steven McCarthy, Centerville Lucas Pierantoni McCarthy, Dublin Casey Wells McCarty, Clarksville Jake McCarty, Dayton

Summa Cum Laude
Victoria Renee McCauley, Stow

Daniel Thomas McCormick, Avon Lake Cum Laude

Mary Louise McCormick, Maumee Julia Caroline McCoy, Loveland Mary Grace McCuen, Cincinnati

Taylor Marie McCuen, Hudson Cody Benjamin McCune, Wilmington Judson Isaiah McDaniel, Bowling Green Ryan McDermott, Rocky River Karin Law McDonnell, Hudson Cum Loude

Matthew McGahan, Mason

Yasmine Brooke McGlothlin, Marion
Cum Laude

Ryan Alexander McGrath, Hilliard
Cum Laude

Nicholas Robert McKague, Jordan, MN
Cum Laude

Natalie McKinney, Columbus John McLaughlin, Montgomery

Maxwell Kendell McLaughlin, Cincinnati

Connor Parker McMahon, Mansfield

Benjamin Robert McMillan, Dayton
Magna Cum Laude

Amanda McNulty, Greenville, SC Puteri Nurhamizah Amanina Megat Suhaimi, Subang Jaya, Malaysia Cum Laude

Joshua James Megnia, Marshfield, MA Jack Mellon, Columbus

with Honors in Business Administration

Casey Jordan Melnick, Jupiter, FL Magna Cum Laude Eleni Laiali Menas, Twinsburg

Eleni Laiali Menas, Twinsburg Matthew Mendez, Ellicott City, MD Matthew James Mesker, Perrysburg Anthony Joseph Messner, Kirtland Summa Cum Laude

Nathan James Metzger, Westerville Mitchell Joseph Meyer, Powell William Paul Meyer, Rocky River Summa Cum Laude

John Devlin Mezzanotte, Princeton Junction, NJ

Kelly Allison Michaels, Strongsville Harrison George Milacek, Hillsdale, NJ Cum Laude

with Honors in Business Administration with Honors Research Distinction in Business Management

Audrey Elizabeth Miller, Cincinnati Cum Laude

Elliott Lucas Miller, Zionsville, IN Kevin David Miller, Stony Plain, Canada Kylie Mckenna Cecelia Miller, Newark Cum Laude

Maxwell Douglas Miller, Bowling Green Michael Peter Miller, Shaker Heights Cum Laude

Zachary Miller, Hampton, NJ Kevin L. Min, Canfield

Corey D. Minich, Lexington Noah Simon Mitchell, Beachwood Cum Laude William Logan Mitchell, Athens Nicholas Moats, Westerville

Daniel Molloy, Tinton Falls, NJ Craig Joseph Molnar, Lorain Magna Cum Laude

Anna Noel Mondro, Cincinnati Emalee Jean Mongno, Yorktown Heights, NY Andrew Harry Monioudis, Rockville Centre, NY Summa Cum Laude

Claudia Louise Monnin, Russia lan Jacob Montague, Sylvania Jiaan Amir Mooers, Columbus Abby Marie Moore, Marysville Andrew Lee Moore, Cincinnati Mogno Cum Laude

Isabella Elektra Moore, New Albany Joshua Dean Moore, Delaware Sarah Josephine Moore, Columbus Taylor Elaine Moore, Columbus Cum Laude

Amy Elizabeth Morency, Cincinnati Magna Cum Laude

Nora Catherine Moriarty, Westfield, NJ Magna Cum Laude

Owen Joseph Morrow, Fairview Park Magna Cum Laude

Beth Rachel Moses, Beachwood Bria M. Mosley, Bloomington, IL Magna Cum Laude

Cory Matthew Mossing, Metamora Lillian Carol Motz, Cincinnati Sam Movish, Liberty Township Summa Cum Laude

Bailey Thomas Mowrer, West Salem Magna Cum Laude

Katelyn Jane Mueller, Lebanon
Cum Laude

Jordan Muhlenkamp, Vandalia Magna Cum Laude

Toddie Sean Mullen, Springfield Cum Laude

Zachary Thomas Mullen, Miamisburg Kyle Edward Mullins, Hilliard Richard Mulvey, Loveland Summa Cum Loude

Emily Ellen Mumaw, Dayton Lindsey Mummert, Galloway Lauren Joanne Munch, Chagrin Falls Cum Laude

Mary-Claire Mundy, Akron Magna Cum Laude

Dustin William Munro, Vanleer, TN

Cum Laude

Katherine Margaret Murphy, Cincinnati Fiona Rose Murray, North Olmsted Ryan Michael Murray, Springboro Malia Monica Musso, Cuyahoga Falls Aaron Myregard, Bakersfield, CA Jackson John Nafziger II, Chagrin Falls Adam Charles Naida, Cleveland Courtney Lynn Neff, Carleton, MI

Magna Cum Laude with Honors in Accounting

Jalen Michael Nelson, Dayton Rachel Rae Nelson, Reno, NV

Summa Cum Laude
Zoe Ann Neptune, Liberty Township

Brooke Lindsay Newcomer, Whitehouse Tracie Nguyen, Gahanna Viet Xuan Nguyen, Columbus Alexander Scott Nickel Leawood KS Magna Cum Laude

with Honors in Accounting Leah Kristine Niekamp, Minster

Maana Cum Laude Adam Richard Niemeyer, Minster

Cum Laude Mouniratou Nikiema, Columbus

Cum Laude with Honors in Rusiness Administration

Wenting Ning, Taiyuan, China Cum Laude

Zixian Ning, Liaoning, China Mitchell Nini, Columbus Cum Laude

Kathryn Elizabeth Noel, Columbus Michelle M. Noethen, Akron Nurul Nabila Binti Nor Dzulkarnain, Kuala Lumpur, Malaysia Cum Laude

Alexander Lorenzo Noriega, Trabuco Canyon, CA Karina Leah Nudelman, Solon Jonathan Nugroho, Jakarta, Indonesia Brenna Marie Nunez, New Rochelle, NY Gregory Michael Nymberg, Cincinnati Cum Laude

Mary Catherine O'Brien, St. Louis, MO Cum Laude

with Honors in Business Administration

Mark Robert O'Connor, Mason Tara Elizabeth O'Hern, Stony Brook, NY Takashi Ohkura, Ichikawa, Japan

Christian Michael Olivier, Oakwood James S. Olsen, Port Clinton Cum Laude

Katherine Olson, Terrace Park Michael Andrian Ong, Cleveland Stephen Osei-Sarpong, Jr., Bronx, NY Wade Oster, Miamisburg Aaron David Oswald, Maineville Cum Laude

Matthew Thomas Otter, Westlake Cum Laude

Kaiwen Ouyang, Changsha, China Magna Cum Laude

Austin Lovelle Owens, Seattle, WA Anastasios Stergiou Pabst, Lancaster Kayla Pack, Worthington . Maana Cum Laude

Mackenzie Ruthann Packard, Burbank Cum Laude

Samantha Morgan Pagliaroli, Kettering Nicole Palatchi, Cincinnati Matthew Paley, Orange

Kathleen Elizabeth Palko, Strongsville Cum Laude

Landon Palma, East Liverpool Maana Cum Laude

with Honors in Rusiness Administration with Honors Research Distinction in Marketina

Mary Gracin Palmer, Clinton, NC Michael Leonard Palmiotto, Oceanside, NY

Maana Cum Laude Shiqing Pan, Zhongshan, China

Aaron Kung-Jiun Pang, Cincinnati Magna Cum Laude

Mitchell Jay Pape, New Philadelphia Jesse Wonil Park, Dublin Jimin Park, Bellevue, WA

Brooke Ann Parker, Mason Craig Michael Parker, New Albany Nicholas Christian Pasquale, Cleveland Cum Laude

Harsh Yogesh Patel, Hilliard Janki K. Patel, Carol Stream, IL Sunny Vijay Patel, Canton

Amanda Lee Patterson, Ashland Kristen Nalani Pavlick, Scottsdale, AZ John Paylopoulos, Homer Glen, IL Joseph Michael Pearl, Richfield Andrew Choi Pearson, Dublin Victoria Morgan Pearson, Independence

Cum Laude Koti Prabha Pelluru, Dublin Cum Laude

Victoria Maria Pemberton, Wappingers Falls, NY Magna Cum Laude Boyu Peng, Beijing, China

Chen Peng, Beijing, China

Cum Laude

Yunjie Peng, Chengdu, China Allison Renee Penna, Ashtabula

Felix A. Pereyra, New York, NY Adam Perez, Springboro Nicholas Andrew Perozeni, Brecksville

Magna Cum Laude Lauren Elizabeth Perry, Mentor Cum Laude

Joseph Antonio Persiani, Cincinnati Allyson Pesta, Westlake

Summa Cum Laude Bridget Emily Petro, Strongsville Ryan William Petrou, Medina Samuel Timothy Pheiffer, Germantown

Magna Cum Laude Jenna Anne Phelps, Milford Center Foni Picinane, Enon Daniel Pierce, Albany, NY Niklas W. Plattenburg, Cincinnati Brandon Robert Plumb, Brookpark

John Michael Politowicz, Broadview Heights Nicholas James Poplos, Memphis, TN

Cum Laude Rachel Lynne Poretsky, Bay Village Tiffany Nicole Porter, Johnstown

Maana Cum Laude Molly Terese Potoczak, Strongsville Maana Cum Laude

Michael William Potraz, Olmsted Township Cum Laude

Nicholas Eugene Prayner, Mayfield Heights Lindsey Anne Prichard, Ottawa Zachary Pride, Grove City Magna Cum Laude

Alexander Scott Prillaman, Libertyville, IL Cum Laude

Tanner Rex Pryor, Wilmington Dana Pusterhofer, Avon

Xuewen Qiu, Ningbo, China David Quinn, Marlton, NJ

William Michael Quirk, Canfield

Junaid Tarig Qureshi, Galena Holly Nicole Rack, Cincinnati Casey Jessica Radner, Catonsville, MD Alma Radu, Broadview Heights

Cum Laude

DeAsha V S Ramsey, Cincinnati Andrea Marie Randall, Chesterfield, MO Andrew Joseph Randazzo, Troy Maana Cum Laude

Anthony Michael Rangel, North Olmsted

Summa Cum Laude with Honors in Business Administration with Honors Research Distinction in Logistics

Clay Raterman, Dublin • Cum Lauda Austin T. Rathbun, Huron

Magna Cum Laude

Austin Skyler Ray, Okemos, MI Cum Laude

Matthew Alan Ray, Columbus Nicholas James Ray, McMurray, PA Cum Laude

Megan Kathleen Reardon, Sagamore Hills Cum Laude

Claire Elizabeth Reddy, Cleveland Darrin James Reeb, Sunbury Adrienne Albert Reed, Dublin Maana Cum Laude

John Willis Reed, Upper Arlington Cum Laude Collin Leopold Reeves, Sylvania

Cum Laude Daniel James Reilley, Fairview Park

Maana Cum Laude with Honors in Business Administration Kelsey Rose Reilly, Bay Village

McKenna Babe Reilly, Upper Arlington Austin Paul Reimer, Avon Lake Daniel James Renner, Milford Cassidy L. Reusch, Brunswick Douglas John Revak, Chagrin Falls Cum Laude

Lindsey Megan Revis, Libertyville, IL Emily Katherine Rice, Springboro Cum Laude

Nicholas Richardson, Johnstown Richard Dillon Ricketts, Pickerington Kyle Riefenberg, Barrington, IL Maana Cum Laude

Megan Michaela Ries, Loveland Gregory Patrick Riley, Hartville Nicholas Allen Rinehart, Circleville Andrew John Rinicella, Aurora Meredith Muriel Rintoul, Centerville Cum Laude

with Honors in Business Administration Jessica Marie Robbins, Hudson Rachel Irene Robbins, Dayton

Maana Cum Laude Thomas Durbin Robenalt II, Rocky River

Summa Cum Laude with Honors in Integrated Business and Engineering

Courtney Lynn Roberts, Wellsville Jamie Gabrielle Roberts, North Canton Cum Laude

James Clayton Robertson, Findlay Andrew Lee Robinson, Milton, GA Margaret Mary Rode, Toledo Tyler John Roeber, Maumee Thomas Corwin Rolf, Powell Connor Charles Roll, Gahanna Jacob Rollins, Colorado Springs, CO Alexa Anne Romano, Mentor Bari Nicole Rosenberg, East Brunswick, NJ Lindsey Rosenberg, East Brunswick, NJ Jon Michael Rosenstein, Plainview, NY Muhammad Harith Roslani, Selangor, Malaysia Alexandria Marie Ross, Hinckley

Summa Cum Laude with Honors in Business Administration

with Honors Research Distinction in Marketing

Sydney Marie Roth, Solon Maana Cum Laude

Kimberly May Rothman, Powell Summa Cum Laude with Honors in Business Administration

Emily Margaret Rouse, Lakewood Summa Cum Laude

Yizhe Ruan, Hangzhou, China Lauren Rubino, Victor, NY Amit Rubinstein, Tenafly, NJ Magna Cum Laude

Taylor Nicole Ruby, Hilliard Summa Cum Laude with Honors in Accounting

Jennifer Pauline Ruder, Northport, NY Cum Laude

Eva Elisabeth Ruf, Dublin Maana Cum Laude

Courtney Marie Russell, Naperville, IL Magna Cum Laude

Meredith Kathleen Russell, Hudson Alexander Kevin Rutledge, Franklin Benjamin Lee Ruttenberg, Pittsburgh, PA Ashleigh Brooke Ryan, Struthers Maana Cum Laude

James Michael Ryan, Jr., Blacklick Kellin Ann Ryan, Perrysburg Hannah Teresa Sagel, Loveland Summa Cum Laude

with Honors in Business Administration

Shantanu Sakaram, Lewis Center Nichole Elisabeth Sakis, New Albany Zachary Salafia, Poway, CA Zahra Salim, Columbus Sofia Shazlin Salleh, Shah Alam, Malaysia Candace Rebecca Samples, Columbus Craig Thomas Sander, Cincinnati Jonathan Michael Sapp, Akron Emma Marie Sarra, Cincinnati Cum Laude

Noah Derrick Sasse, North Royalton Abigail Sattler, Perrysburg Cum Laude

Colleen Hope Sauer, Cincinnati Magna Cum Laude

Hope Seanne Sawchuk, Hilliard Cum Laude

Emily Lynn Schaefer, Findlay Summa Cum Laude

with Honors in Business Administration with Honors Research Distinction in Marketing

Tiffany Marie Scheer, Long Grove, IL Charles Isaac Scherich, Martins Ferry Benjamin Ralph Schertler, Dayton

Magna Cum Laude with Honors in Accounting

Alex J. Schiavone, Celina

Galen Vincent Schlosser, Gladwyne, PA Brian Raymond Schmidt, Deerfield, IL Christopher Adam Schmitt, Troy

James Tuohey Schmitz, Kettering

Erin Ann Schnell, Wapakoneta Ryan Steven Smith, Morganville, NJ Summa Cum Laude Magna Cum Laude with Honors in Accounting Samantha Ryan Smith, Mendham, NJ Kyle Thomas Schockman, Dayton Sara Kave Short Smith, Celina Wesley Justin Smith, Dry Ridge, KY Ben James Schoelwer, Huron Maana Cum Laude Cum Laude Rachel Kay Schroeder, Bowling Green with Honors in Business Administration Caryn Snide, Westerville Cum Laude Cum Laude Trenton Joseph Schroeder, Findlay Konrad Nikolaus Schroeter, Mount Gilead Caitlin Bernice Snyder, Hilliard Jared Max Schuman, Plainview, NY Cum Laude Darin Soat, Beavercreek Township Cum Laude Cara Schuppe, West Chester Michael Scott Solomon, Canfield Olivia Ariana Schwann, Ottawa Hills Summa Cum Laude Maana Cum Laude Robert Nathaniel Solomson, Henrico, VA Fric Schwartz Moorestown N I Alexander Charles Soltesz, Hilliard Inshua Alan Schwartz Botkins Chase Landon Somple, Bath Sarah Elizabeth Scott, Zanesville Amanda Jane Sonntag. Township of Washington, NJ Kaitlen Marie Seals, Lancaster Cum Laude Maana Cum Laude Anna McKrell Seanor, Canton Rachel Nicole Sorensen, Pickerington Magna Cum Laude Coletta Lee Seeman, Tipp City David Anthony Sorger, Cincinnati Maxwell Griffin Seesholtz-McMunn, Columbus Maana Cum Laude Summa Cum Laude Sydney Allison Soroka, Rockville, MD Bryan Alexander Seich, Dublin Magna Cum Laude Hunter Edward Souders, Yellow Springs Samuel Robert Seidenfeld, West Orange, NJ Stephen Alexander Souders, Fostoria Austin Matthew Seiple, Dublin Jennifer Joy Sperry, Centerville Cum Laude Cum Laude Lucas Sencio, Columbus Alexander Eugene Spohr, Loveland Peter Joseph Sender, Closter, NJ Andrew Jeffrey Sprock, Lake St. Louis, MO Cum Laude Bailey James Sproul, Lima Rebecca Ann Serio, Twinsburg Sean M. Stacho, Westerville Ishan Sethi, Dublin Kyle Jerome Stahl, St. Henry Olivia Jane Seving, Sidney Nicholas John Stamatis, Avon Kurt William Shaffer, Stafford, VA Summa Cum Laude Becca Shaulson, Stamford, CT with Honors in Business Administration Summa Cum Laude Heather Stamper, Hilliard Lucaus Brett Shaut, Columbus Maana Cum Laude Thomas Isaac Shaw, Alexandria Molly Ann Stander, Milford, MI Maana Cum Laude Cum Laude Wangyang Shen, Suzhou, China Griffin Christopher Stanley, Gallipolis Xiangyang Shi, Qidong City, China Kristen Leigh Starkey, Green David Joseph Shoffstall, Poland Cum Laude Taylor Shwide, Plainview, NY Jack Ryan Staub, New City, NY Maana Cum Laude Brandon Zachary Stebbins, Massillon Qing Si, Hohhot, China Garrett Wade Stefani, Rocky River Cum Laude Brittany Marie Steingass, Defiance Aaron Huy Sihamaya, Pickerington Ellen Cathleen Steinmetz, Cincinnati Thomas Sikorski, Troy, MI Maana Cum Laude Rebecca Anne Simon, Cleveland Caroline Constance Stephanou, Wexford, PA Jeremy Isaac Stern, Naperville, IL Alexander Judah Singer, Huntington Beach, CA Nicholas Alexander Stewart, Strongsville Jocelyn Estela Siveroni, Springfield, VA Cum Laude Jessica Shannan Stone, Solon Matthew David Skidmore, Columbus Robert Strauss, Clinton Brett Michael Skursha, Mentor Magna Cum Laude Maana Cum Laude with Honors in Accounting Jonathan James Sliman, North Canton John David Strayer, Akron Landon Jacob Slomovitz, Pepper Pike Summa Cum Laude Matthew Anthony Smale, with Honors in Business Administration Huntington Beach, CA Leigh Anne Strecker, Overland Park, KS Alexander Anthony Smith, Shaker Heights Jason Hunter Stubitz, Naperville, IL

Hailey Juliana Smith, Avon Lake

Kalynn Elizabeth Smith, Vermilion

Michael Emmett Smith, Dublin

Jordan Smith, Deerfield, IL

Olivia Kathryn Smith, Tiffin

Maana Cum Laude

Austin Richard Sullivan, Cincinnati Magna Cum Laude Joseph Alexander Sundberg, Galloway Yonatan Ezekiel Sunshine, University Heights Baylee Sural, Columbus Faith Danielle Surface, Dayton Cum Laude Kyle Nicholas Suts, Strongsville Wade Knight Sutton, Waterville Maana Cum Laude Gerald Joseph Swanson, Grayslake, IL Evelyn Rose Tammarine, Perrysburg Si Siew Tan, Cleveland Yina Tan, Guangzhou, China Cum Laude Han Tat. Dublin Sherin Tawana, Dublin Andrew Charles Taylor, Hightstown, NJ Brandon James Taylor, Copley lan Jeffrey Tecklenburg, Novi, MI Bryan Kyle Temin, East Brunswick, NJ Nicholas Michael Tensing, Cincinnati Joshua Drake Tharp, Newport Coast, CA Cum Laude Rachel Elise Theis, New Albany Magna Cum Laude Allen P. Thomas, Pickerington Brett Austin Thomas, Brunswick Devon Renee Thomas, Powell Cum Laude Gregory Raphael Thomas, Boardman Johnson Joseph Thomas, Mason Maggie Nicole Thomas, Ironton Cum Laude Sarah Kate Thomas, Findlay Cum Laude Alexander Michael Thompson, Basking Ridge, NJ Magna Cum Laude Emily Nicole Thompson, Mission Hills, KS Trevor John Thompson, Medina Nicholas Carl Thrasher, Powell Kyle Sunil Thumar, Moorestown, NJ Geng Tian, Tianiin, China Yilin Tian, Hohhot, China Summa Cum Laude Sarah Michaela Timian, Baltimore, MD Aaron Michael Todd, Hanoverton Cum Laude Ryan Toh, Petaling Jaya, Malaysia Brett Tollas, Hicksville Cum Laude Alexander Philip Tolpin, Jericho, NY Cum Laude Rachel Ann Tomasic, West Chester Ana Carolina Tovar Fuentes, San Antonio, TX Maana Cum Laude with Honors in Business Administration Evan Michael Trainer, Westerville Cum Laude John Scott Trentman, West Chester Raymond Phong Trieu Truong, Reynoldsburg Cum Laude

Kathryn Evangelia Tzagournis, Upper Arlington Ryan Thomas Ulrich, Annandale, NJ David Winston Underwood, Jr., Dublin Cum Laude Jacob Myles Underwood, Santa Cruz, CA Christopher Unser Westerville John Boyden Updyke III, Aurora Omoruyi Uwadiae, Columbus Zachary Isaac Valdman, New Albany Summa Cum Laude Vincent Kohl Van Horn, Westerville Emma Marie Vandenbusche, Medina Ari Beniamin Vandersluis, Dayton Cum Laude Artem Vasilyev, The Woodlands, TX Summa Cum Laude with Honors in Accounting Dalton Durrett Vass, Powell Alexander Elefterios Vassalos. Charlottesville, VA Lauren Elizabeth Vassar, Avon Cum Laude Paul Verdier, Columbus Wade Joseph Verhoff, Defiance Andre Richard Vigroux IX, New Rochelle, NY Maana Cum Laude with Honors in Integrated Business and Engineering Gabrielle Margaret Mary Vincent, Naperville, IL Cum Laude Victoria Lynn Vinci, Manalapan, NJ Nicholas Andrew Viola, Eastchester, NY Hannah Morgan VIk, Chardon Cum Laude Claire Julia Voisard, Powell Lauren Elizabeth VonderBrink, Cincinnati Jillian Waldorff, Chagrin Falls Alec Thomas Walker, Columbus Nicholas K. Walker, Bellville Rvan Patrick Walker, Canton Sean Kelley Walsh, Cincinnati Hongling Wang, Guiyang, China Huan Wang, Shanghai, China Magna Cum Laude Huiwu Wang, Ji'an, China Maana Cum Laude Jason Xiao Wang, Kendall Park, NJ Jeremy Wang, Pickerington Magna Cum Laude Jingying Wang, Suzhou, China Maana Cum Laude Kevin Wang, Vandalia Nai Wang, Beijing, China Magna Cum Laude Shiyun Wang, Shanghai, China Cum Laude Wenjun Wang, Shanghai, China Maana Cum Laude Yao Wang, Zhengzhou, China Cum Laude Yihan Wang, Beijing, China Maana Cum Laud Yujue Wang, Beijing, China Yupei Wang, Nanjing, China Maana Cum Laude Zetian Wang, Weihai, China Maana Cum Laude with Honors in Accounting Zeyu Wang, Jinan, China Summa Cum Laude Zhe Wang, LuAn Anhui, China

with Honors in Accounting

Heather Ann Tucker, Concord

Justin Paul Tuttle, Louisville

Sara Kelsey Tyson, Cleveland

Maana Cum Laud

Summa Cum Laude

Timothy M. Tully V, Andover, MA

Corbin Pryce Sturgill, Columbus

Kara Anne Sturtz, Columbus

Devon Sugianto, Jakarta

Maana Cum Laude

Stefan Michael Subich, Akron

Madeline Francis Sulewski, Perrysburg

Summa Cum Laude

Christopher James Ward, Marysville Magna Cum Laude

Brandon William Warren, Central Square, NY William C. Watrous, Centerville Cameron Christopher Watson, Columbus Stephen William Watson, North Canton Cum Loude

Mallory Weaver, Tiffin
Cum Laude

Kaila Urvant Weber, Williamsport, PA Xiao Cherry Wei, Shenzhen, China Max Aaron Weidenborner, Columbus Troy Robert Weider, Perrysburg Magna Cum Laude

Alexandra Kay Weingarth, Zanesville
Cum Laude

Ashley Nicole Wenz, Springboro Megan Elizabeth Wessel, Cincinnati Magna Cum Laude

Jared David Wexler, Beachwood John Thomas White, Cincinnati Matthew Alexander White, New Albany Victoria Marie White, San Diego, CA Emily Ann Wiegandt, Hilliard

Summa Cum Laude with Honors in Accounting

Ryan Jeffrey Wiemers, Columbus Cum Laude

Shannon Blake Wilcox, Granville Andrew Robert David Wildish, Kingston, Jamaica Logan Robert Wilhelm, Columbus

Cum Laude
Samantha Dianne Wilkins, Oak Harbor
Carson Richard Williams, Glandorf
John Meyer Williams, Dallas, TX

John Meyer Williams, Dallas, T Thomas Williams, Perrysburg Magna Cum Laude

Richard Varnie Wilson II, Cleveland Heights Steven Edward Wilson, Dublin Magna Cum Laurie

Zachary David Wilson, Kings Mills

Thomas Lewis Wimer, Wadsworth

Amanda Rose Wise, Cranberry Township, PA

Cum Loude

Lauren Wise, Hudson

Cum Loude
Claire E. Wittenberg, Chagrin Falls
Matthew Bennett Wold, Princeton Junction, NJ
Andrew Wollet, Youngstown
David Andrew Wood, Hudson

Magna Cum Laude Molly Joann Wood, Skaneateles, NY Nathan Russell Wood, Sylvania Christopher James Woodcock, Willoughby

John William Woods, Norwalk Madison Joan Woods, Osceola, IN

Kyle James Worden, Tokyo, Japan

Anthony Michael Workman, Waverly
Cum Laude

Kyle Jordan Wright, Columbus

Ailin Wu, Jiangmen, China Magna Cum Laude

Alexander Yushuan Wu, Columbus Chengtian Wu, Huaian, China

with Honors in Integrated Business and Engineering
Fanying Wu, Beijing, China

Qiwen Wu, Suzhou, China Sifan Wu, Taizhou, China Magna Cum Laude

Xueting Wu, Shanghai, China Magna Cum Laude

Yidi Wu, Chengdu, China Magna Cum Laude with Honors Research Distinction in Loaistics

Ying Wu, Shanghai, China Magna Cum Laude

Yusen Wu, Nanchang, China Zhuohui Wu, Columbus

Michael Cole Wyatt, Painesville Magna Cum Laude

Menghan Xiao, Lanzhou, China Magna Cum Laude with Honors in Accounting

Haofeng Xie, Dongguan, China Weihuang Xie, Guangzhou, China Summa Cum Laude

with Honors in Accounting

Kaimeng Xing, Beijing, China Magna Cum Laude with Honors in Accounting

John L. Xu, Brecksville Liwei Xu, Shanghai, China Tao Xu, Shanghai, China

Weiyun Xu, Zhenjiang City, China Magna Cum Laude Xinran Xu, Wuhan,China Xuncheng Xu, Hangzhou, China

Yixin Xu, Xi'an, China Yunjia Xu, Chengdu, China Summa Cum Laude

Junda Yan, Huludao, China Anqi Yang, Shanghai, China Magag Cum Laude

Jiani Yang, Xi'an City, China Lerong Yang, Wuhan, China

Magna Cum Loude Qiaoyu Yang, Beijing City, China Zhaohui Yang, Shanghai, China Ziyue Yang, Chongqing City, China

Linyu Yao, Sichuan, China Summa Cum Laude

Ruiming Yao, Wuhan, China Shihao Yao, Haining, China Yuanping Yao, Jinan, China Yana Yaremchuk, West Chester Trevor James Yasinow, Orange

Renkai Ye, Chengdu, China

Xiaohan Ye, Jiangyin, China Haley Ann Yeomans, Lowell

Hanzhi Ying, Guangzhou, China Magna Cum Laude

Joseph Michael Yoder, Shaker Heights Taylor Alycia Young, Lewis Center Chuxuan Yu, Beijing, China

Magna Cum Laude

Bo Yuan, Zhengzhou, China
Summa Cum Laude

Yuan Yuan, Hangzhou, China

Joel Anthony Zahneis, Cincinnati Matthew Zakelj, Broadview Heights

Sarah Ann Zanola, Loveland

Sean Zdanky, Carmel, IN Magna Cum Laude

Tyler Joseph Zender, Ottawa Summa Cum Laude

Xinyi Zeng, Beijing, China Summa Cum Laude

Ke Zhan, Wuhan, China Cum Laude

Hanye Zhang, Taizhou, Zhejiang, China Summa Cum Laude

Hui Zhang, Ningbo, China

James Jie Zhang, Cleveland Liwen Zhang, Fuzhou, China Shiyao Zhang, Wuhan, China Magna Cum Laude

Tianye Zhang, Beijing, China Tianyi Zhang, Shangyu, China Magna Cum Laude

with Honors in Integrated Business and Engineering

Xinyun Zhang, Haimen, China Magna Cum Laude Yuhan Zhang, Beijing, China

Summa Cum Laude with Honors in Accounting

Zhen Zhang, Dalian, China Jiawei Zhao, Suzhou, China Summa Cum Laude

Linna Zhao, Zhengzhou, Henan, China Magna Cum Laude

Qin Zhao, Xinxiang, China Siyuan Zhao, Shanghai, China

Tianrui Zhao, Chengdu, China Yanqiu Zhao, Nanjing, China

Yijin Zhao, Jiangsu, China Fa Zhou, ChongQing, China Cum Laude

Hang Zhou, Dalian, China Mingsong Zhou, Shanghai, China Cum Laude

Yige Zhou, China Corey Song Zhu, West Chester Keqing Zhu, Beijing, China

Peiyun Zhu, Ningbo, China Summa Cum Laude

Yunying Zhu, Ningbo, China Summa Cum Laude

with Honors in Business Administration with Honors Research Distinction in Finance

Yunzhu Zhu, Nanjing, China Cum Laude

Payton Ziegler, Bolivar Noah Gregory Zierden, Cardington Robert Matthew Zimmerer, Westerville

Alexander Martin Zinn, Cincinnati Anthony Dakota Zivcsak, Medina Benjamin Gerrit Zoet, Naperville, IL Harrison Altman Zoldan, North Canton Nicole Marie Zubovich, Chantilly, VA

Ellen Margaret Zuercher, Avon Magna Cum Laude with Honors in Business Administration Tyler Zysberg, Kings Park, NY

# Certificate in Leadership

Wesley Stephen Dantzler, Sykesville, MD

# College of Dentistry

Dean: Patrick M. Llovd

#### **Doctor of Dental Surgery**

Sharmarke Mohamed Ali, Columbus B.S.

Jordan K. Allen, Pocatello, ID B.S. (Idaho State University)

William Timothy Andrews, Cincinnati B.S.Hlth.Reh.Sci.

Cum Laude

Daniel L. Ashton, Travelers Rest, SC B.S. (Brigham Young University)

Curtis R. Baker, Willard B.S. (Otterbein University)

Andreas J. Baltzly, Navarre B.S. (University of Akron) Cum Laude

Brianna L. Barnes, South Point B.S. (Ohio Wesleyan University)

Luke A. Bauserman, Columbus B.A. (Ohio University)

Tye Z. Bauserman, Columbus Bachelors (Ohio University)

Justine M. Bednarski, Des Plaines, IL B.S. (University of Illinois)

Nicholas T. Blevins, Highland Heights B.S. (Boston College)

Erica M. Bockhorst, Loveland B.A. (Miami University) Magna Cum Laude

Lauren Bowman, Pittsburgh, PA B.S. (Pennsylvania State University)

Kyle Aaron Boyd, Findlay
Cum Laude

Maurina L. Brooks, Columbus R Δ

Blake Chaney, Upper Arlington B.S., M.S.

Magna Cum Laude

Joseph C. Charnas, Cortland B.S. (Kent State University) Magna Cum Laude

Lisbet Lopez Cherniavsky, Miami, FL B.S. (Florida International University)

Esther Yun Chien, Hilliard B.S.Pharm.Sci.

Summa Cum Laude

Noah M. Christopher Forest B.S. (Ohio Northern University)

Anthony A. Clark, Fresno, CA B.A. (Fresno Pacific University)

Alexandra Nicole Cleveland, Twinsburg B.S.Hlth.Reh.Sci. Magna Cum Laude

Chelsea E. Colburn, Warren B.S. (Walsh University)

John T. Corcoran, Oxford B.A., B.S. (Miami University) Cum Laude

Annie M. Courtemanche, Toledo B.S. (University of Toledo) M.A. (Central Connecticut State University)

Cameron Parker DeMarsh, Canton B.S.

Maana Cum Laude

Danielle C. Demian, Highland Heights B.S. (Miami University)

Meagan Lynn Dinh, Celina B.S. (Wright State University)

Rachel M. Eifert, Vandalia B.S.Humn.Ecol. Cum Laude

Lana N. El-shaar, Akron B.S. (University of Akron)

Jared S. Ellinger, Bowling Green B.S. (University of Toledo) Cum Laude

Dina Maria Farah, Canton R S Rus Adm

Brian K. Farley, McCarr, KY

B.S. (University of Kentucky) John E. Fixari, Gahanna B.S. (Denison University)

Nathaniel D. Frye, Polk, PA B.A. (Bucknell University) Summa Cum Laude

Breanna Lynn Garman, Arlington B.A.

Michael J. Gatz, Delaware B.A. (Ohio Wesleyan University)

Jenna Marie Gaudio, Granville

B.S.

Samuel B. Gersch, Xenia B.A.

Cum Laude

Mariah L. Gray, Milford B.S. (University of the Cumberlands) Cum Laude

Richard Scott Gray, Vincent RS

Summa Cum Laude

Joseph Nihal Gunasekera II, Beavercreek B.S.

Breihn Nicholas Hall, Cincinnati RS

Nikki Lee Hartline, New Philadelphia B.S. (West Liberty University) Maana Cum Laude

Andrew J. Hessler, Wooster B.S. (Denison University)

Jordyn Renee Hildebrand, Massillon B.S.

Maana Cum Laude

Huong L. Hoang, Kettering B.S., M.S. (Wright State University)

Justin M. Hoying, Fort Loramie B.A. (Capital University) Magna Cum Laude

Farhad Jamshidi, Tehran, Iran B.S. (University of California) Cum Laude

Nathan E. Jandernoa, Fowler, MI B.S. (Michigan State University)

Kevin A. Johnson, Youngstown B.S. (Youngstown State University) Cum Laude

Bridget T. Keaney, Rocky River B.S. (Boston College) Maana Cum Laude

Jacqueline Keller, Hagerstown, MD B.S. (Shippensburg University of Pennsylvania) Magna Cum Laude

Blaine J. Kincaid, Springboro B.S.

James Dominic Kleinfelder, Cincinnati B.S.

Dennis Heng Lam, Stow B.S.Hlth.Reh.Sci. Cum Laude

Robert T. Landgraf, Ravenna B.S. (Walsh University)

Alexander P. Lee, Pataskala B.S.Bus.Adm.

Sookyon L. Lee, Seoul, South Korea B.A. (Sogang University)

B.S. Summa Cum Laude

Christopher Joseph Logeman, Cincinnati R S Rus Adm

Cum Lauda

Natalie T. Massa, Kissimmee, FL B.S. (Wright State University)

Cum Laude

Jeana K. McEvey, Boardman B.S. (Youngstown State University)

Eben L. McGregor, West Chester B.S. (West Virginia State University) Cum Laude

Victoria Lauren McLaughlin, Wooster B.S.Nutrition

Summa Cum Laude

Aaron Moeller, Tucson,AZ B.S. (Brigham Young University)

Nassar Mohammad, Columbus

Maana Cum Laude

Mary E. Mueller, Milford B.S. (Bellarmine University) Summa Cum Laude

Seth N. Nye, Fruit Heights, UT B.S. (Weber State University) Maana Cum Laude

Joseph B. Palm, Williamstown, WV B.S. (Miami University) Cum Laude

Akshi Dhruv Patel, Avon Lake B.S.

Karishma Patel, Stow B.S.Pharm.Sci.

James John Poulos, Westlake Rς

Isaac N. Raptou, Lewis Center B.S. (Indiana Wesleyan University)

Shelby L. Rohr, Nova B.A. (Capital University)

Lindsey M. Roth, Springfield B.S. (Bowling Green State University)

Thomas R. Rouse, Carmel, IN B.S. (Ball State University)

Justin M. Runyon, Columbus B.S. (North Carolina State University) Summa Cum Laude

Andrew Steven Ryser, Hubbard

Thomas Gary Sarko, Cortland B.S.

Wade T. Sattler, Pemberville B.S. (Bowling Green State University)

Kevin F. Schamel, Kettering B.S. (University of Dayton)

Maria Cristina Schneider, Lewis Center B.S. (Wittenberg University) M.Pub.Hlth.

George Constantine Schooley, Upper Arlington R S Nutrition

Jacob B. Scott, Shreve B.S. (University of Wyoming) M.S. (University of Louisville)

Janai Seng, Euclid

Bryan Iksu Shin, Columbus B.Bus.Adm. B.S. (Ajou University)

Emily Christine Spetka, Toledo B.S.

Cum Laude

Carson Elizabeth Spornhauer, Dublin

Magna Cum Laude

Bryce Steindl, Amherst B.S. (University of Toledo)

Mattie E. Stowell, Ashtabula B.S. (Marietta College) Magna Cum Laude

Adam M. Swan, Cottonwood Heights, UT B.S. (Bringham Young University) Summa Cum Laude

Duke Tien Trinh, Miamisburg R S Nutrition

Michael Patrick Vieth, Cincinnati B.S.

Summa Cum Laude

Xiaotian Wang, Shenyang, China

Kala A. Warner, Wapakoneta B.A. (Miami University)

Ayanna K. Williams, Chicago, IL Master's (Johns Hopkins University) Cum Laude

Kenneth D. Willis, Newport News, VA B.A. (University of Toledo)

Kevin L. Wilson, Bedford Heights B.S. (Howard University) M.S.

Cum Laude

Madison P. Wright-Piekarski, Chillicothe RS

Seung E. Yu, Dublin B.S. (University of Notre Dame) Maana Cum Laude

James William Zimmerman III. Ottawa Hills

Summa Cum Laude

#### **Bachelor of Science**

Kathy Jo Diehl, Defiance KimPhuong Nguyen Lee, Columbus Allison May Miller, Mansfield Roxanne Sickel, Dayton Stephanie Marie Smolinski, Adrian, MI Kara Lizabeth Vlach, Mentor Sarah Jane Youssef, Munroe Falls

#### **Bachelor of Science in Dental Hygiene**

Kasey Ann Bilancini, Amherst

Nadia Michelle Boggs, New Lexington Mason Mark Colón, Lorain

Cum Laude

Sabrina Lee Daniels, Belle Center Clarrissa Lynn Dillon, New Lexington Katelynn Irene Doran, Westerville Cum Laude

Sahro Abdinasir Elmi, Columbus Magna Cum Laude

Kaylyn Marie Goshe, Tiffin Magna Cum Laude

Natalia Hagee, Columbus Cum Laude

Jennifer Lynn Harsh, Mansfield
Cum Laude

Katelyn Elizabeth Justice, Columbus

Erika Marie Kassicieh, Dublin Magna Cum Laude

Rowad Shaban Mahmoud, Columbus Cum Laude

Emily Marcella Malik, Galena Cum Laude

Stephanie Marie Meyer, Toledo

Trinette Casiano Panico, Lewis Center Cum Laude

Fatuma Mahadi Pemba, Columbus

Andrea Gail Perry, Naperville, IL Kristen Marie Petit, Doylestown Summa Cum Laude

Sierra Rae Poillucci, Newcomerstown

Madeline Angeline Rastatter, Macedonia
Cum Laude

Cybill Eileen Rejas Llamosas, Ica, Peru Cum Laude

Samantha Riley Seitz, Akron

Ivanna Maria Soto, Columbus

Rachel Nicole Stafford, West Chester, PA Summa Cum Laude

Lauren Lovell Stanfield, Gilbert, AZ Magna Cum Laude

Taylor Shareese Stanforth, Hillsboro Kelsie Jo Strother, Springfield Magna Cum Laude

Paige Jane Velas, Grove City

Cum Laude

Kimberly Sue Walls, Urbana Magna Cum Laude

Brooke Lauren Warner, Akron Cum Laude

Brooke Wolfe, Bellevue Summa Cum Laude

# College of Education and Human Ecology

Dean: Cheryl L. Achterberg

#### Bachelor of Science in Health Promotion, Nutrition, and Exercise Science

Mark Robert Belanger, Akron Logan Ross Brauer, Castalia

Katelyn Nicole Francis, Centerville Yael Natalee Friedstrom, Cincinnati Cum Laude

Mitchell Stephen Gallagher, Pleasant Plain Grace Leilah Gardner, Alexandria Kelsey Mae Inbody, Arlington Sarah Johnson, Chillicothe

Cum Laude

Ryan David Lachance, Galion Jalena Lizabeth LeMaster, Greenville Xuewei Lu, Liaoning, Shenyang, China Macie Owen McNichols, Brecksville Luke J. Montavon, Lucasville Neeraj Narayan, Cincinnati Jamie Pratt, Pittsburgh, PA Holly Lynn Tester, Brilliant Rachel Briana Vore, Brookville Mitchell Lawrence Yarborough, Kirtland

## Bachelor of Science in Human Development and Family Science

Kaylyn Sue Aebie, Columbus Alicia A. Atkins, Rochester, NY Corinne Atwood, Reynoldsburg Summa Cum Laude

Sarah Anne Baker, Hamilton Samantha Cheryl Bals, Dublin Shiana Christine Bookless, Zanesville Cum Laude

Emily Elizabeth Bordner, Columbus Kristen Mary Bratton, Akron Magna Cum Laude

Victoria Ann Brehm, Arcanum Dana Walker Brooks, Columbus

Taveon Lamarr Brown, Dayton Tara Lynnae Browning, Dayton Christan Nicole Buel, Gahanna Amanda Nicole Burneka, Dayton Joclyn Nicole Cabanas, Marion Jessica Ashley Cavinder, Steger, IL Taylor Chamberlin, Milford

Britney Marie Collins, Windham Cameron Xavier Cook, Gahanna Alexandra Jade Craft, Hamilton

Olivia Suzanne Crawford, Fostoria

Quann Dion-Johnathan Daniels, Pleasant Hill, CA Rachel Ann Dawson, Columbus

Summa Cum Laude
with Research Distinction in Human Developmen

and Family Science
Sarah Marie DeLuca, Worthington

Amy Katherine Dishong, Chagrin Falls
Summa Cum Laude

Madeleine Averre Drost, Amanda Ashlyn Duty, Columbus Carly Michon Ekvall, Chillicothe

Kayla Nicole Entsminger, Gahanna Taylor Maree Fitzsimmons, Springfield Joshua Wesley Fleagle, St. Marys Katelyn M. Fox, Dublin

Cum Laude

Shelby Rae Friday, Dublin Noelle Lee Fuzer, Canton

Magna Cum Laude

Amaria Nicole Gardner, Columbus Audrey Godnick, Roslyn Heights, NY Karlee Kathnyn Greene, Galena Axel William Halwarson, Cranston, RI Abigail Katherine Hammond, Reynoldsburg Shaina Janelle Harrison, Solon Cum Loude

Jasmine Lilian Hearne, Stillwater, MN

Cum Laude

Caitlyn Hodge, Milford Samantha Jae Horwitz, Deerfield, IL Maana Cum Laude

Hannah Jean Hostetler-Chaney, Columbus Jenna Kristine Houston, Lima

Cum Loude
Rong Hu, Zhongshan, China
Aubrey Monique Jenkins, Cleveland
Aiste Jociute, Mendham, NJ
Ciara Nicole Johnson, Columbus
Rebecca Carol Johnson, Columbus
Veronica Johnson, Georgetown
Cum Loude

Christopher William Keane, West Park
Cum Laude

Kasey Diane Klimo, North Canton Cum Laude

Lauren Alexis Kohler, Waynesville Cum Laude Taylor Lachey, Sidney

Christina Sangmin Lee, Carol Stream, IL

Cum Laude

Katie Lemieux, Dublin

Sarah Elizabeth Letscher, Medeira Summa Cum Laude Carly Christine Liber, Cincinnati

Magna Cum Laude Jaylen Lindsey, Cincinnati

Annie Rose Litrenta, New Castle, PA

Andrew Edward Louwers, Dublin Breanna Rene Maffett, Ashland Sophia Rossi Marinucci, Worthington Cum Laude

Samantha Jo McCandless, Hudson Amber Joeanne McCoy, Lewis Center Gaaj William Meyer, Columbus Lucy Hannah Meyer, Falmouth, ME Kyle Stephen Michalik, Brunswick Jacob Andrew Miller, Germantown, TN Cum Loude

Allison Nicole Mirka, Ostrander Madelaine Marie Musselman, Columbus Bridgette Marie Nevius, Dayton Kaylin Michelle Overdorf, Tipton, IN Mogna Cum Laude

Emily Kate Plemons, Amherst Hanna Leigh Rawlins, Pickerington Courtney Nicole Reder, Cincinnati Magna Cum Laude

Caitlin Reyes, Toledo
Carolina Elizabeth Rodriguez, Columbus
Kayla Jordan Sadwick, Westlake Village, CA

Rebecca Anne Sankovich, Bay Village Adrian Fae Schaffer, Monroeville Magna Cum Laude

Kara Nicole Schimmoeller, Ottoville

Delaney Donna Scott, Milford Megan Laura Seiffert, Hilliard Victoria Rose Shand, Arden, NC Cum Laude

Katie Lynn Smith, Eaton Morgan Delanie Snyder, Springfield Abbey Coryn Spangler, Hilliard

Madison Spector, Akron

Samantha Stojanovski, South Brunswick, NJ Gabrielle Juanita Stokes, Liberty Township Eric Strubhar, Pataskala

Cum Laude

Abigail Rae Taylor, Steubenville Valerie Kathryn Toivonen, Columbus Alissa Leeann Tolliver, Ontario Thang Son Tran, Groveport Stefan Anthony Treglia, Upper Arlington Maana Cum Loude

Talia Noa Turk, Los Angeles, CA Magna Cum Laude

Rachel Anne VanScoy, Lancaster Julia Vellky, Dublin Magna Cum Laude

Sindhu Velu, Dublin Janelle Breanne Washington, Oxford, MI Rodney Deon Washington II, Columbus Kaitlyn Marina Willming, Galloway Magna Cum Laude

Mackenzie Victoria Wilson, Worthington Michaela Winifred Wilson, Richfield Steven Eugene Wimer, Coshocton Jeffrey Eric Wood, Upper Arlington Kelly Brianne Woodard, Worthington Stacy Marie Verington, Hamburg, NY Sarah Anne Zink, St. Clairsville

Magna Cum Laude Samantha Jane Zishka, Lancaster Summa Cum Laude

Brittany Michelle Zoppa, Marysville

# Bachelor of Science in Human Ecology

Brooke Jordan Adelman, Norwalk

Cum Laude

Rhema Allen, Lima Alexa Renee Antipas, Stony Brook, NY Gretchen Elizabeth Bach, Bucyrus Hannah Kay Baise, Springfield

Cum Laude John Ryan Baker, Chardon

John Kyan Baker, Chardon Colin William Biles, Hilliard Sarah Lynn Bourdon, Chicago, IL Jovantae Lashawn Brandon, Toledo Hannah Noel Brown, Columbus

Dominic Anthony Bruno, Olmsted Falls Joseph Lee Burrow, Athens Mackenzie Chene, Pittsburgh, PA Audrey Marina Chittock, Delaware Coryn Marie Ciboro, Sylvania Cum Laude

Cassidy Marie Clay, Canton Cum Laude

Carissa Colangelo, Columbus Caitlin Ellen Cromes, Piqua

Colin Thomas Curry, Mount Vernon Jianghe Dai, Hunan, China Abigail De Jesus, Newbury Paul Anthony DeFrances, Steubenville George Gregory Dial, Jr., Linden, AL Mark Andrew Dillahunt, Tipp City Thomas Joseph DiPilla II, Moorestown, NJ Kati Marie Donahue, Martins Ferry Cum Loude

Jacob Steven Dryfuse, New Riegel Iman Kyra Eaton, Atlanta, GA Justine Marie Fitch, Reynoldsburg Roman Xavier Fleetwood, Centerville Mallory Grace Fleming, Cincinnati Ryan Mark Gabel, Worthington Ethan Bailey Gesell, Powell Kathryn Joan Gonzalez, Pickerington Kelly Marie Grathwol, Sandusky Cara Louise Greenwood, St. Clairsville Kaitlyn Anne Grimes, Galena Nicholas Andrew Haberski, Gahanna Hunter Johnson Hall, Newark Trevor Scott Hamman, Sylvania Kellon Margaret-Louise Hamsher, Canton Beatrice Eliza Hannan, Dublin Hudson Michael Haring, Columbus Cara Elizabeth Hatem, Columbus Mirav Klara Hazan, Memphis, TN Magna Cum Laude

Amy Marie Henry, Upper Arlington Emily Nicole Hentrich, Beavercreek Cum Laude

Zachery Alexander Hill, Columbus Brett Taylor Hoefling, Miamisburg

Monica Emma Honabarger, Danville

Melissa Hoover, Westerville

Cody Lamar Jones, Lima Skylar Michael Jones, Monclova Emily Kathleen Joyce, Columbus Claire Louise Kathryn Keel, Tipp City Janelle Amber Kellstadt, Cambridge Anthony Byung Joon Kim, Fullerton, CA Chloe Marie King, Springfield

Jacob Richard Knock, Liberty Township Joseph Isaiah Lee Kynard, Toledo Nicholas David Lennon, Chicago, IL Abigall Christine Lentz, Hilliard Chun Hei Lo, Hong Kong Erika Elizabeth Manley, Toledo Christopher John Marth, Westeville Alaina Kimberly Martin, Columbus McKenna Jo Merkle, Van Wert Summa Cum Loude

Taylor Nicole Metheny, Grove City

Emily Michelle Miller, Swanton Lindsay Hollen Miller, Westerville Amandrea Marlee Mortensen, Genoa Mackenzie Jay Moss, Blacklick Alexandra Margaret Niehoff, Mason Breann Lynn Niese, Miller City Jennifer Claire O'Neill, Darien, CT Carlee Ellys Orner, Cincinnati Lynn Alexis Overmier, Defiance

Taariq H. Parker, Princeton, NJ Madison Marie Pauly, Spring Grove, IL

Jacob Izaak Pearson, Vancouver, Canada Lisa Celeste Poirier, Columbus Elizabeth Polikoff, Libertyville, IL Cum Laude

Karli Ann Poliziani, Murrysville, PA

Dennis Pushkin, Holmdel, NJ Christina Anne-Marie Reed, Powell Miranda Riegler, Amherst Cum Laude

Laura Anne Robbins, Pataskala Monica Colleen Robinson, Circleville

Juliann Amanda Roche, Columbus Tiffany Renee Rudolph, Toledo Ryan Paul Ruff, Canal Winchester Anne Elizabeth Salmen, Columbus Casey Lynn Scott, Bellefontaine Andie Rebecca Simon, Somers, NY

Joseph Michael Slyman, Columbus

Matthew Michael Smerglia, South Euclid Lindsay Taylore Smith, Columbus Kelsey Marie Stockwell, Lancaster Magna Cum Laude

Aleksander Terrence Stonerock, Circleville Steven Michael Sunday, Reynoldsburg Nadia Charlotte Szymkowiak, Columbus Jason Douglas Terrell, Akron Maggie Nicole Thomas, Ironton Cum Loude

Ashley Kay Toothman, Lewis Center Linda Q. Tran, Akron Brian Joseph Truckly, Dublin Hanna Rose Tumbusch, St. Henry Arolynn Leigh Tupper, Dallas, TX Jessica Catherine Tye, Waterville Martha Vandra, Fairview Park

Samantha Lynn Vargo, Columbus Michael Anthony Vieta, Lorain Sydney Marie Wenzinger, Findlay Aubrey Marie Williams, Liberty Township Christian Michael Yanok, New Albany Nickolas Craig Young, Chillicothe Tiffany Marie Young, Hilliard Xiaoming Yu, Weihai, Shandong, China Cum Loude

Payton Zemba, Zanesville Cum Laude

#### Bachelor of Science in Hospitality Management

Antiqua Roslyn Ballard, Dayton Antonia Rayelle Clement, Stafford, VA Mandy Jo Dudte, Hilliard Micah Timothy Eller, Findlay Zachary Ellsworth, Lima Catherine Marcella Eschenbach, Lewis Center

Cum Laude

Zhuo Gao, Zhuhai, China Yu He, Nanning, China Olivia Lauren Hempstead, Marion Bryan Patrick Higgins, Youngstown Yue Hu, Hu Zhou, China Huajing Jiang, Tianjin, China

Magna Cum Laude
Alexander Joyner, Alpharetta, GA
Clara Ann Kleptz, Dayton
Patrick Michael Kohowski, Youngstown
Jared Kotwis, Canal Winchester
Cum Laude

Elizabeth Browning Ledford, Upper Arlington Marcie Joy Litchman, Columbus Erin Logan, Hubbard

Cum Laude
Alishia Rae Mackintosh. Columbus

Michele Genevieve Marcinick,
Brooklyn Heights
Summa Cum Laude
Brea Demi Martir Cincinnati

Brea Demi Martir, Cincinnati Sean Michael Melton, Orlando, FL Kiley Madigan Merrill, Hudson Magno Cum Laude

Alexandra Leigh Morrison, Upper Arlington

Cum Laude

Sarah Lauren Nesmith, Columbus Nicklas John Nocera, Bedford, MA Nicole Partlow, Groveport Cum Laude

Kayla M. Powell, Warren

Lucas Michael Pugno, Hilliard Casey Jessica Radner, Catonsville, MD Zachary Robert Ratkus, Pittsburgh, PA Korra-Shay Ann Richards, Dassel, MN Abby Shayna Robins, Bexley Hannah Karen Sabel, Athens Madison James Sarris, Cleveland Sydney Shapiro, St. Paul, MN Kelsey Nicole Shores, North Canton Blaire Teaford, Middletown Emily Marie Turner, Wheelersburg Emily Ann Viars, Cincinnati David Raymond Williams, Branchburg, NJ Hunter Nell Williams, Zanesville Lindsay Michelle Wolf, Hilliard Cum Laude

Maria Kathryn Yallourakis, Valparaiso, IN
Magna Cum Laude

Jason Choi Yang, Seoul, South Korea Mattison Renee Young, St. Clairsville Cum Laude

Xinran Zhang, Nanjing, China

#### **Bachelor of Science in Nutrition**

Kaylie Suzanne Arlow, Pittsburgh, PA Erika Renee Barnes, North Ridgeville Sydney Carol Brown, New Albany Ann Elizabeth Chrysler, Strongsville Cum Laude

Gina F. Ciliberti, Bay Shore, NY James Kody Davisson, Marysville Amanda Elizabeth Gabor, Kirtland Cum Laude

Alice Gantman, Cleveland Tessa Marie Gerken, Findlay Daniel Ryan Guastella, Cleveland Mikayla Kristen Hartoin, Cincinnati Lora Taisser Iskander, Westerville Claire Jackson Jaboni, Cleveland Carolina Jimenez, Boynton Beach, FL Humah Hennan Khan, Hilliard Makenna Autumn Koger, Birmingham, MI Magan Cum Loude

Leah Rebecca May, Creston

with Research Distinction in Human Nutrition Kevin Q. Mo. Ottawa

Cum Laude Emily Catherine Morris, Stow

Cum Laude Kristen Nicole Motil, Hinckley

Melissa Lynn O'Donnell, Westerville Magna Cum Laude Seth Alexander Rouch, Grove City Killyanna Puss, Collymbus

Kijuanna Russ, Columbus Amy Catherine Sabol, Cincinnati Cum Laude

Amy Richele Sharn, Rochester, NY with Research Distinction in Human Nutrition Kaitlyn Elizabeth Smith, Youngstown

Michelle Pauline Smith, Gahanna Magna Cum Laude

Roshini Srinivasan, Tallmadge Summa Cum Laude

with Honors Research Distinction in Human Nutrition

Morgan Alexandra Taylor, Penfield, NY

Salam Tiba, Dublin

Meigan A. R. Way, Dublin

Cum Laude
Rebecca Leigh Youngs, Dublin
Allison Ann Ziegler, Attica, NY
Cum Laude

#### **Bachelor of Science in Education**

Elizabeth Kay Abbott, Newark
Cum Laude

Julia Erin Adams, Mansfield
Cum Laude

Haia Hussain Ahmad, Dublin Aaron Alan Akers, Bucyrus Summa Cum Laude

Carly Paige Albanese, Stow Brian Albano, Wilmette, IL Nicole Julia Alexander, Mansfield Magna Cum Laude

Hanan Nader Aljacksy, Columbus
Cum Laude

Travis Austin Allard, Covington, VA Kaley Renae Anderson, Hilliard Cum Laude

Abby Kramer Andrews, Dublin Summa Cum Laude

Andrea Marie Armbruster, Columbus

Cum Laude

Jasmine LaChelle Arnett, Marietta, GA

Summa Cum Laude
Taylor Ann Assalone, Manalapan, NJ

Amy Atkinson, Powell
Cum Laude

Morgan Carleen Avers, Miamisburg Summa Cum Laude

Ciera Nicole Badertscher, Belle Center Magna Cum Laude

Emily Marie Baird, Kenton

Jacob Thomas Ball, Mason Cum Laude

Francesca Marie Bankovich, Hudson Spencer Eugene Barnes, Los Gatos, CA

Kayley Noelle Barno, Bexley Summa Cum Laude

Alexis Paige Barnt, Elida

Shaunna Kalene Basinger, Kalida Dana Ellen Beatty, Dayton Sophie Lee Belch, Pittsburgh, PA Magna Cum Laude

Eric Christopher Bell, Hilliard
Magna Cum Laude

Grace Katherine Bell, Westerville
Summa Cum Laude

Eric Matthew Bellner, Westerville Aiyanna Leilani Bennington, Lima Cum Laude

Kaitlin Berigan, Willowick

Joseph C. Bierl, Davenport, IA Katelyn Marie Bixler, Maumee

Nick Tyler Blackburn, Minford Chad M. Blomgren, Mason Michael Blumberg, Syosset, NY Alyssa Paige Bobbitt, Hilliard

Nicole Ashley Bogner, Lewis Center Summa Cum Laude

Patrick Daniel Boniecki, Darien, IL Magna Cum Laude

Dante Levar Booker, Akron Samantha Jean Boone, Butler Cum Laude

Hope Elizabeth Borton, Grove City

Cum Laude

Brooke Ashley Bowen, Willshire Summa Cum Laude

Lindsey Blake Boyce, Zionsville, IN

Magna Cum Laude

Michaelyn Arielle Brace, Gallipolis Magna Cum Laude

Randi Lynne Brackman, Hilliard

Cum Laude

Resident Land Brackman, Hilliard

Braiden Lee Bradley, Kenton
Cum Laude

Levi George Brake, Ohio City Alexander Randolph Brandt, Kettering

Samuel David Branstool, Johnstown Jose-Emilio Bravo, Worthington Cum Laude

Michael Allen Breed, Ashland Benjamin Thomas Brendamour, Cincinnati Summa Cum Laude

Matthew Donald Brighton, Sylvania Magna Cum Laude

Savannah Elizabeth Brown, Coshocton Paige Nicole Brucoli, Canfield Cum Laude

Alex Gerald Brunswick, Anna Brianna Shea Buccilla, Columbus Magna Cum Laude

Jared Alan Buerger, Kenton Emily Lauren Burkart, Delaware Lee Andrew Burley, Ashland Shawn Robert Burns, Cincinnati Andrew Kyle Burr, Centerville Magna Cum Laude

Britney Leigh Bush, Dublin Edgar Rico Cajigal, Grove City

Mary Katherine Callahan, Cheverly, MD Clovetta Shawnece Callender, Columbus Cum Laude

Nicole Jane Carling, Coshocton Brooklyn Rae Carter, Bucyrus

Ana Casian-Lakos, Columbus Caroline Victoria Catanzarite, Columbus Maana Cum Laude

Marie Elizabeth Cathey, Westerville

Cum Laude

Michele Nicole Cerasani, Howell, NJ Magna Cum Laude

Leslie Anna Chandler, Maplewood Magna Cum Laude

Madison Renee Charnes, Westerville

Cum Laude

Jiankun Cheng, Guangzhou, Guandong, China

Katlyn Rose Chillinsky, Dayton Magna Cum Laude Nathan Alexander Christian, Lakewood

Cum Laude
Nicolas Vincent Ciotola, Marysville

Nicolas Vincent Ciotola, Marysville Hailey Ann Clouse, Brunswick Magna Cum Laude

Kalia Linsey Cobb, Phoenix, AZ

Magna Cum Laude

Jennifer Renee Coleman, Marion

Sophia Marie Collaros, Worthington

Magna Cum Laude

Rachel Elizabeth Marie Colletti, Ashville Andrew Kevin Collins, Gahanna Magna Cum Laude

Cory Alan Colston, Port Clinton Abbigayle Lousie Conkle, New Bremen Miranda Linn Conway, Plain City Alyssa Kay Cook, Spencerville Summo Cum Loude

Dawn Michele Cook, Columbus Kristen Nicole Cook, Chillicothe

Robert Lafe Coram III, Indianapolis

Magna Cum Laude

Kaitlynn Sara Corns, Pataskala Cum Laude

Lorenzo Giuseppe Costanzo, Avon Lake Cum Laude

Bryce Matthew Crea, Lima Cum Laude

Darcy Dell Criswell, Surprise, AZ
Cum Laude

Zachary Thomas Cromer, West Salem Clayton Matthew Crosier, Barnesville Brandon Paul Cuda, Norton

Kristen Kay Curtis, Bloomdale

Aisha Yasmin Dada, Columbus Magna Cum Laude Huyen Nhu Dang, Lima

Cum Laude
Emily Marie Daniel, Cario

Cum Laude
Connor Davis, Reynoldsburg

Cum Laude Hayley Ariah Davis, Lexington Kori Lynn Deemer, Roanoke, VA Meagan Dembicky, Liberty Township Cum Laude

Kelsey Marie Demjan, Hilliard Samantha Christine Denman, Marengo

Christopher Patrick Denney, Cincinnati Joseph Alexander DiFrancesco, Austintown Haleigh Rose Dion, Weymouth, MA Madelyn Elizabeth Dishop, Napoleon Summa Cum Laude

Megan Marie Donnelly, Dublin
Magna Cum Laude

Brittany Joan Driggs, New Albany
Summa Cum Laude

Lauren Elise Duchak, Dayton
Summa Cum Laude

John Hong Duong, Cincinnati

Sylvie Rain Durlacher, Woodbury, NY Summa Cum Laude

Cassidy Rose Dyer, Columbus Magna Cum Laude

Madeline Elizabeth Dyer, Stow Summa Cum Laude

Rebecca Jo Ebbrecht, Niceville, FL Joshua William Edens, Westerville Max Samuel Edsey, Park Ridge, IL Magna Cum Laude

Kierra Nasha Edwards, Canal Winchester
Cum Laude

Rachel Rose Edwards, Ashville Hailee Nichole Ellis, Marion Justine Elizabeth Emig, New Albany Magna Cum Laude Jacob Tyler Ernst, North Wales, PA

Jacob Tyler Ernst, North Wales, PA Bethany Joy Erwin, Mansfield Summa Cum Laude

Erik James Evans, Baltimore, MD Joshua Aaron Evans, Gahanna Anna Macke Eversole, Columbus Summa Cim Loude

Isabelle Frances Farmwald, Doylestown

Cum Laude

Brandon Allen Faun, Twinsburg

Natalie Kristen Faust, Lutherville, MD Magna Cum Laude Kevin Feder, Ramsey, NJ

Dirk Patrick Fenwick, Wapakoneta James Joseph Ferrara, Rockville Centre, NY Cum Laude

Robert Matthew Fieman, Massapequa, NY Michelle Lynn Fishback, Fairfield Cum Laude

Kelsey Michelle Fisher, Powell Summa Cum Laude

Summa Cum Laude

Halle Eileen Flate, Beachwood

Hector Florencia, Rockwall, TX

Kylee C. Floyd, Covington TreVon Gary Forte, Youngstown Jacquelyn Foschino, North Haledon, NJ Brooke Elizabeth Foster, Plain City

Haley Jade Fowler, Lancaster Magna Cum Laude

Jacob David Fowler, Westerville

Cum Laude

Judith Anne Fowler, Springfield Anthony Freeman, Cambridge, MA Magna Cum Laude

Jason Daniel Freewalt, St. Marys

Katelyn Marie Freewalt, Celina Cum Laude

Richard Frey, Pataskala Magna Cum Laude

Sara Marie Friedmann, Cincinnati Christopher Frometa, Morganville, NJ Abigail Fuhrmann, Wheelersburg Magna Cum Laude

Shelby Elizabeth Fulton, Lewis Center Lauren Nicole Furno, Mount Vernon Summa Cum Laude

Caroline Virginia Gaker, Oregonia

Cum Laude

Daniel Christopher Garcia, Winthrop, MA Alexandra Marie Gardiner, Lewis Center Summa Cum Laude

Sara Jane Gardner, Centerville Zachary Witte Garver, Findlay Magna Cum Laude

Emily Gazdag, Solon

Elana Murphy Gerbec, Dublin

Paige Alexis Gibbons, Bethesda Molly J. Gibson, Wapakoneta Magna Cum Laude

Quinn Gerard Giesige, Celina Magna Cum Laude

Alex Dean Gifford, Columbus

Magna Cum Laude

Anthony Lee Gillem, Pemberton Jacqueline Danielle Gillies, San Diego, CA Tanner Tyson Gillum, Pickerington Trevor Leon Goldstein, San Jose, CA Magna Cum Laude

David Cooper Good, Chagrin Falls Lauren Taylor Goodall, Tipp City

Kalisha Goree, Columbia City, IN Kellie Anne Grady, Sandwich, MA Amber Michelle Griesdorn, Lima Cum Jaude

Janel Marie Griesdorn, Coldwater Melissa Ann Griest, Villanova, PA Cum Laude

Justin Robert Groshon, Lansdowne. PA Magna Cum Laude

Jessica Christine Guerrero, Elida Maxwell Spencer Gunn, Powell Cum Laude

Alexander Israel Gurvits, Cleveland Carly Danielle Haberman, Gahanna Robert David Hackman, Rockville, MD

Regan Denae Hahn, Minster Summa Cum Laude

Rebecca Sue Hall, Auburn, Indiana Danielle Nichole Halley, Logan Tyler Christian Hamilton, Birmingham, AL Magna Cum Laude

Emily Faye Hammond, Springfield Suzanna Lee Hammond, Lexington

Hannah Elizabeth Hampton, Wildwood, MO Elizabeth Kim Han, Medina

Tess Shanly Hannan, Maumee Magna Cum Laude

Erica Lyn Hantzsche, Wadsworth Damari Tre'von Harris, Columbus Katlin Elaine Harris, Pickerington Robert Anthony Harris III, Columbus Magna Cum Laude Ryan Joseph Harris, Beachwood

Kylie Rae Haslage, Lorain Marcy Lynn Haynam, Canton

Holly Ann Heck, North Lima Magna Cum Laude Kathryn Ellen Heilman, Kenton

Tessa Marie Heitmeyer, Rawson

Cum Laude

Summa Cum Laude
Cassidy Lin Held, Defiance
Magna Cum Laude

Benjamin George Helmecamp, Middletown Natalie Evelyn Helphrey, Columbus Jami Linn Henricks, Marysville Benjamin Joseph Hermetz, New Carlisle Tara Jeanette Herr, Cairo Moono Cum Loude

Joseph Andrew Heschmeyer, Youngstown Emily Sarah Heskett, Westerville Summa Cum Laude

Gregory Aloysius Hickey, Upper Arlington Christina Marie Hill, Springfield Magna Cum Laude

Ryan Andrew Hines, Pleasant Hill Magna Cum Laude Karly Renee Hinson, Grove City

Cum Laude Emily Ann Hipple, Pickerington

Reid Hollinger, Hilliard Jenna Ruth Horstman, Ottoville

Sara Rachel Horvath, Garfield Heights

Katherine E. Hosket, Columbus Emma Noel Huber, Marysville

Morgan Elyse Hummel, Chesterfield, MO
Magna Cum Laude

Magna Cum Laude
Rebekah Joann Immel, Columbus
Magna Cum Laude

Joe Nathan Ingram III, Youngstown Angela Nicole Jackson, Columbus

Stephen Tad James, Medway
Summa Cum Laude

Cheyenne Louise Janis, Johnstown
Magna Cum Laude
Jonathan Jansen, Lewis Center

Riley William Jantz, Avon Lake

Cum Laude

Cara Maureen Jennings, Dayton

Cum Laude Allysa Eileen Johnson, Cleveland

Cum Laude
Katherine Julia Johnson, Westlake
Summa Cum Laude

Summa Cum Laude
Sabrina Rae Johnson, Loudonville

Jackalyn Nichole Johnston, Georgetown Duncan Taylor Jones, Gahanna Michael Patrick Jones, Strongsville Timothy P. Jones, Columbus Jeffrey Bo Jordan, St. Paris Mustafa Syeed Kalash, Columbus Amanda Lynn Kallach, Mason Mog

Sara Kapaj, Dublin Summa Cum Laude

Daniel Nicholas Karliak II, Fairview Park Nicole Marie Kasper, Solon Magna Cum Laude Nihal Raj Kattar, Maumee Magna Cum Laude

Hailey Aventine Kaufman, Wilmette, IL Magna Cum Laude

Katelyn Marie Kaufman, Ottawa Matthew Keenan, Oak Hill, VA Christina Marie Keller, Piqua Magna Cum Laude

Klaryssa Marie Kendrick, Powell Cum Laude

Ivory Lee Kennedy, Jr., Dayton Artea Kae Kenney, Marengo Cum Laude

Nicole Major Killman, Manhattan Beach, CA Magna Cum Laude

John Gordon Kilpatrick IV, Acton, MA Tiffany Suin Kim, Columbus Anna Lee Kimborowicz, Chardon Magna Cum Laude

Kaitlyn Jane King, Mason Summa Cum Laude

Seth Joseph Kinker, Barboursville, WV Logan Michael Klatt, Maumee Teresa Nicole Kleinhenz, Olmsted Falls Daniel Michael Klorer, Oregon Jacob Edward Knapp, Columbus Alyssa Ann Knickerbocker, Columbus

Summa Cum Laude Nathan Kohl, Hilliard

Connor Norman Kohls, Columbus Grove Kaylee Koker, Athens

Victoria Catheryn Kramer, Pickerington Janice Kubiak, Brecksville Cum Laude

Nicole Marie Kuchenbuch, Cincinnati Magna Cum Laude

Zachary Reed Kushner, Silver Spring, MD
Magna Cum Laude

Mikaela Rae Kussmaul, Bluffton Summa Cum Laude

Amy Lagerstrom, Crestwood, IL Duncan Everett Lamar, West Chester

Fennelley Ann Land, Baltimore, MD Stephanie Jane Lange, Lebanon Michael Jacob Lantz. Cincinnati

Magna Cum Laude Jonah Larsen, Dublin Michael Aaron Lawless, Dover

Hanna Eliza Ledford, Lebanon Summa Cum Laude

Joy Lee, Columbus Cum Laude

Maana Cum Laude

Kai Amir Lee, Columbus Blake Gregory Leeson, Mequon, WI Emily Ann Levings, Cardington Magna Cum Laude Audrey Jane Lewis, Westerville

Cum Laude
Isabel Victoria Lewis, Cincinnati

Cum Laude Jenna Ellena Lilly, Newark

Cum Laude

Ashley Nicole Lindsay, Groveport Matthew Douglas Lindsey, Clarendon Hills, IL Maria E. Little, Granville Magna Cum Laude

Longxin Liu, Columbus Magna Cum Laude Kelly Marie Loehr, Mason

Kelly Marie Loehr, Maso Summa Cum Laude Robert Lori, Hudson Kristan Michelle Loychik, Grove City Paige Nichole Lucas, Elida Nicholas Scott Mackey, Champion

Magna Cum Laude Sarah Alison Mantel, Pittsburgh, PA Cum Laude

Jeffrey Daniel Markham, Aurora, IL Brooke Ann Martin, St. Marys Magna Cum Laude Kalie Marie Mascarello. Columbus

Magna Cum Laude
Tamika Lynn Massey, Columbus

Magna Cum Laude

Delaney Hope Mathews, Gahanna
Cum Laude

William Dalton Maynard, Dublin

Brendan Patrick McAndrews, Bay Village Emily Jean McAvoy, Hampstead, NH Magna Cum Laude

Madison Taylor McCaleb, Hilliard
Cum Laude

Jade Diamonte McCormick, Hilliard Summa Cum Laude Daniel Charles McCullough, Massillon

Evan Michael McDowell, Goshen, NY Emma McGinnis, Reno, NV Cum Laude

Kate Elizabeth McGregor, Hudson

Griffin Tyler McKinzie, Studio City, CA Dakota James McNany, Bryan Brooke Ann McNulty, New Lexington Rachel Ann Mecklenborg, Columbus Cum Laude

Taylor Joy Menczywor, Lancaster Stefanie Anne Merkle, Petersburg, Canada Cum Laude

Baylee Storm Messmer, Marengo Renae Marie Meyer, Fort Loramie

Magna Cum Laude Katerina Maria Mihalopoulos, Hilliard

Magna Cum Laude
Alexandra Milano, Aurora

Magna Cum Laude

Audrey Ann Miller, Kenton

Cum Laude
John Langley Miller, Dublin

Kerrie Lynn Miller, Wapakoneta Magna Cum Laude Mackenzie Elaine Miller, Mansfield

Magna Cum Laude Madison Danielle Miller, Powell

Summa Cum Laude
Morgan Taylor Miller, Harrod

Magna Cum Laude
Shannon Noel Miller, Bucyrus
Cum Laude

Nicole Leigh Misiolek, Hilliard
Maana Cum Laude

Kelsey M. Mitchell, Cincinnati Yamilex Molina, Union City, NJ Cum Laude

Matthew Carter Montag, Columbus Lydia Leigh Moore, Sabina Cum Laude

Rebecca Lynn Moorhead, Bay Village Baylee Meeker Morgan, Troy Magna Cum Laude Joshua M. Mull, Columbus

Magna Cum Laude

Abigail Rae Nadolson, Dublin

Katlyn Nagel, Westlake

Hayley Elizabeth Neff, Amanda Cum Laude

Cynthia Elberta Nelson, Columbus Leah Catherine Neroni, Chagrin Falls Magna Cum Laude

Ashley Ann Newman, Kenton Elizabeth Mahala Nichols, Columbus Grove

Bryce Patrick Nicholson, Richfield Magna Cum Laude Branden Nickles, Lafayette

Cum Laude Kelsey Nolan, Columbia, PA Summa Cum Laude

Kayla Nicole Nungester, Circleville

Cum Laude
Andrew Albert O'Reilly, Dublin
Ethan Mark Oldfield, North Bend

Magna Cum Laude
Drew David Onega, Columbus
David Lynn Orbusin, Cincinnat

Raven Lynn Ortwein, Cincinnati Ryan Ott, Columbus Magna Cum Laude

Karianne Elizabeth Ouellette, Seymour, CT

Cum Laude

Gregory Thomas Overstrom, New Tripoli, PA

Summer Dionne Owens, Columbus Kaitlynn Alexandra Palmer, Granville Stephanie Payano, Teaneck, NJ Cum Laude

Oliver Peric, Cleveland Monica Leigh Petruzzi, Westerville

Magna Cum Laude

Margaret Elizabeth Pfeifer, Dublin

Magna Cum Laude

Lorrae Ann Phillips, Wapakoneta Magna Cum Laude

Nathan Alexander Pohlman, Delphos Jared Andrew Powell,

Washington Court House Magna Cum Laude

Michael Bradley Powers, Bucyrus

Magna Cum Laude

Maxwell James Provan, Palatine, IL

Matthew Charles Pruden, Wall, NJ Kyle R. Pryor, Batavia Shayleigh K. Pugh, Marysville Magna Cum Laude

Brette Nicole Purvis, Ashland Summa Cum Laude

Molly Kathrynn Query, Loveland Harvest Nicole Radich, Howland Magna Cum Laude

Mandy Campbell Radigan, Westerville Magna Cum Laude Caroline Elizabeth Rath, Greenville, DE

Chantel Teona Ray, Hampton, VA Rachel Louise Reamer, Tiffin Brian Anthony Recker, Fort Jennings Magna Cum Laude

Tesfu G. Reda, Columbus Christopher Michael Reeder, Williard Cum Laude

Joyanna Marie Reese, Reynoldsburg Haylie Marie Reichenbach, Brunswick Summa Cum Laude

Samuel Stephen Reid, Maumee

Mitchell Renner, Chantilly, VA

Cum Laude

Delani Elizabeth Reynolds, Worthington Kelly Anne Rhodes, Lexington Magna Cum Laude

Patrick James Riley, Brecksville

Cum Laude

Cum Laude

Jennifer Jean Roach, Brunswick

Summa Cum Laude Lyndsey N. Roberts, Lima

Aliesha Marie Robinson, Canton Cum Laude Morgan E. Robison, Bellefontaine

Katherine Anne Rochon, Jacksonville, NC Jakia Laniece Roland, Youngstown Kole James Rolsten, Van Wert

David Raymond Romero, North Easton, MA Magna Cum Laude Vincent John Romita, Port Jefferson, NY Trey Markus Roney, Columbus Grove

Talia Noel Ronzana, Riverside, CA Shannon Rosati, Shoreham, NY Kelsey Lauren Rosen, Long Island, NY Magna Cum Laude

Amanda Lander Rosenblatt, Fairfax, VA Stefanie Jeanine Russell, Baltimore

Adam M. Sabol, Castaic, CA
Danielle Jo Sadek, Columbus
Aaron Mckay Samarin, Fresno, CA

Christopher C. Santee, Niles Jaclyn Caroline Sauder, Lucas Kassidy Jeanne Sauve, Whitby, Canada Andrew Donald Scarpelli, Vandalia Jessica Taylor Schell, Fremont Maana Cum Laude

Austin Duane Schimmoeller, Bryan Jessica Sue Schmalzried, Perrysburg Summa Cum Laude

Molly Marie Schmidt, Hamilton Joseph Anthony Schmook II, Parma Cum Laude

Karli Raquel Schneider, Wapakoneta Magna Cum Laude

Jamie Rose Schooler, Solon

Ellen Theana Schooley, Upper Arlington

Magna Cum Laude

Jayson Smith Schott, Upper Arlington

Cum Laude
Trey Daniel Schroeder, Paulding
Susan Kathryn Sedlacko, Akron

Summa Cum Laude
Tyler Joseph Seitz, Springfield

Nicholas Robert Seme, Wadsworth Magna Cum Laude

Dean McEwen Shaffer, Columbus Magna Cum Laude

Alyssa Nicole Sharrer, Lakewood Cum Laude

Pauline Amanda Shaw, Marysville Magna Cum Laude Jonikka R L Shepherd, Marion

Jonikka R L Shepherd, Marion Alysha Marie Shobe, Lima

Dawna Michelle Shroads, Westerville
Summa Cum Laude

Allyson Marie Simmons, Navarre

Stephen Paul Simon IV, Valencia, CA Summa Cum Laude

Abigail Kathryn Skowron, New Albany Jennifer Nicole Slack, Dublin

Jessica Alain Smalley, Rockford Amanda Dawn Smith, Malta Magna Cum Laude

Carly Ann Smith, Elida

Magna Cum Laude

Dominic Anthony Smith, Columbus

Cum Laude

Matt Robert Smith, New Albany Samuel Dun Smith, Dublin Taylor Frances-Nicole Smith, Galion Magna Cum Laude

Amanda Jane Sonntag, Township of Washington, NJ Cum Laude

Stavroula Nicolina Soulas, Dublin
Magna Cum Laude

Drew Anthony Speaker, Elmore Molly Elizabeth Spears, Gahanna Cum Laude

Gavin Austin Speelman, Mansfield Natasha Nicole Spinell, New Philadelphia Summa Cum Laude Lauren Marie Spring, Kelowna, Canada

Cum Laude
Morgan Alexandra Stamper, Warsaw

Morgan Alexandra Stamper, Warsaw Summa Cum Laude

Madeline Clare Steffan, Leipsic Magna Cum Laude Leia Irene Steffas, Westlake

Cum Laude Katherine Grace Steitz, Hilliard

Magna Cum Laude

Lauren Kristine Stewart, Columbus

Magna Cum Laude

William Thomas Stillings, Marysville Katherine Streck, Dublin

Bailee Nicole Sturgeon, Ashville Priya Renee Subramanian, Alpharetta, GA Cum Laude

Casey Lynn Sudzina, Niles Summa Cum Laude

Marissa Breanne Swavel, Wayne Clara Dorinsky Tadros, Columbus

Magna Cum Laude

Madison Diane Tata, Medina
Cum Laude

Derrick Taylor, Atlanta, GA

Justin Lawrence Taylor, St. Louis, MO Alexander Scott Theiling, Rocky River Cum Laude

Kimberly Ivana Thomas, Cleveland Summa Cum Laude

Alina M. Tiber, Auburn

Meredith Anne Tillotson, State College, PA Summa Cum Laude

Alexander Joseph Tober, Parma Lara Erika Tolks, Ventura, CA Magna Cum Laude

Hannah Marie Tornes, Findlay Magna Cum Laude

Morgan Elizabeth Tudor, Kenton Lindsey K. Turoff, Columbus Jacqueline Ulmer, Hudson Summa Cum Laude Courtney Lynn Van Horn, Cridersville

Cum Laude

Michaela Viola, Columbus Magna Cum Laude

Nichole Brittany Viscoglosi, Worthington
Magna Cum Laude

Caitlyn Claire Votino, Dublin Magna Cum Laude

Alicia Elizabeth Wade, Washington, DC

Logan Nicole Wade, Heath Magna Cum Laude

Zackery Tyler Wagner, Sandwich, MA Kristen Renee Wakeford, Canfield

Rachelle Ann Walko, Hilliard

Austin David Waller, Perrysburg

Brendan Patrick Walsh, Cincinnati Emily Nicole Walters, Rossburg

Derek Reed Walton, Youngstown
Magna Cum Laude

Kristen Marie Wasilewski, Shelby Summa Cum Laude

Autumn Elysse Watkins, Columbus Jeanette E. Weaver, San Diego, CA

Jacob Tucker Weikert, Westerville Kirby Weinhauer, Wellsville, NY Matthew Thomas Weis, Newton, NJ Mackenzie Mae Welker, Celina Magna Cum Laude

Ashlynn Renee West, Columbus Magna Cum Laude

Taylor White, Los Angeles, CA Brittany Anne Whitesell, Eaton Audrey Marie Will, Wooster

Cum Laude
Jacob Andrew Williams, Middletown

Cum Laude Rebecca Marie Williams, Columbus

Magna Cum Laude

Alexis Kay Willoughby, Parma
Summa Cum Laude

Shelby Elizabeth Wills, Newark Megan Taylor Wilson, Kenton Magna Cum Laude

Ridge Ray Winand, Butler Dara Katherine Winegard, Brecksville

Emily Jean Wolf, Maineville

Cum Laude

Alexandra Maria Wright, Lakewood Aliyah Elon Wright, Cleveland Hunter Kent Wright, McArthur Abigail Fey Wurmbrand, Bexley Susan Yeh, Taichung, Taiwan Summo Cum Loude

Taylor Ann Zapolnik, Steubenville Cum Laude

Rachel Elizabeth Zeaman, Solon Cum Laude

Chance Lawrence Ziegler, Valley City Magna Cum Laude

Mason Clay Zimmer, West Carrollton
Cum Laude

Brooke Makayla Zuber, Delphos

# **College of Engineering**

Dean: David B. Williams

# Bachelor of Science in Aeronautical and Astronautical Engineering

Byung Joon Ahn, Seoul, Korea Magna Cum Laude

with Honors in Integrated Business and Engineering

Zachary Matthew Allen, Tipp City Brennan J. Barrington, Pataskala

with Research Distinction in Aeronautical and Astronautical Engineering

Max Bennet Barrowclough, San Diego, CA Jeffrey David Bramlage, Beavercreek Jacob Andrew Brandon, Medina

Joseph Brian Cahill, Hudson

Michael Thomas Celesti, Mason

with Honors in Integrated Business and Engineering

lan Robert Chamberlain, Dartmouth, MA with Research Distinction in Aeronautical and Astronautical Engineering

Kyle E. Christman, Dublin

Patrick Alva Cleaves, West Chester Alexander Ryan Cummings, Cincinnati William Jackson Deitrick, Coronado, CA Skylar William Dierker, Pemberville Tawfik Mohamad Fahoum, Westlake Nicolas Russell Flesher, Suffield Wilson Enrique Flores, North Hollywood, CA

with Research Distinction in Aeronautical and Astronautical Engineering

Zachary Joseph Frederick, Milan

with Honors in Engineering
Paul John Gaecke, Canton, MI
David Franklin Gedeon, Eastlake
Gabriel Matthew Geiger, Defiance

Magna Cum Laude with Honors in Engineering

Jonathan Grimm, North Royalton Michael Edward Guza, Powell Magna Cum Laude

Jennifer Nicole Haines, Mason Maxwell James Hanich, McDonald, PA Samantha Harel. Solon

Robert Reilly Harris, Ashland Craig Louis Heim, Mason Cum Laude

Cum Laude

Zi Xiang Heng, Johor Bahru, Malaysia Ryan Joseph Howard, Defiance Sammy Huang, Brooklyn Cum Laude

Julia Catherine Huff, New Albany Taylor Douglas Huneycutt, Raleigh, NC Ali Hussain, Ontario

Magna Cum Laude with Honors in Engineering

with Honors Research Distinction in Aeronautical and Astronautical Engineering

Stephen Charles Ioas, Cincinnati Rehman Abdur Kaludi, Karachi, Pakistan Ahmad Faraz Khan, Columbus Mark Joseph Konieczny, Oak Harbor

with Honors Research Distinction in Aeronautical and Astronautical Engineering

Allison Marie Kuhar, Concord Aditya Narayan Kulkarni, Troy, MI

with Research Distinction in Aeronautical and Astronautical Engineering

Joshua James Latimer, Pickerington Bradley Andrew Losey, Kent Conor Goodsell Love, Maplewood, NJ Lucas Alexander Mairal-Cruz, Cincinnati Magna Cum Laude

Kaitlin Morgan McTague, Oak Harbor

Daniel Robert Mrachko, Murrysville, PA Brian Pangilinan, Alexandria, VA Vaibhav R. Patel, Grove City Jon Nathan Peterson, Columbus Austin Spencer Petsche, Macedonia

with Research Distinction in Aeronautical and Astronautical Engineering

Aubrey Elisabeth Reynolds, Cincinnati Nicholas Charles Chung Salamon,

Columbus

with Honors Research Distinction in Aeronautical and Astronautical Engineering

Joel Andrew Sands, Bedford, NY
Jason Alexander Scheele, Arlington Heights, IL
Cole Alexander Schott, Orient
Howard Sabo Schulman, Los Angeles, CA
Alexander Schwab, West Milford, NJ
Jonathan James Smith, Marysville
Magna Cun Loude

Magna Cum Laude Samuel Joseph Sojda, Aurora

Cum Laude

with Honors in Engineering
Michael Alan Spoelker, Cincinnati

Spencer Lucas Stahl, Loveland
with Honors Research Distinction in Aeronautical

and Astronautical Engineering

lan Wendell Stamm, Dublin Cum Laude

Andrew John Steen, Deptford, NJ with Research Distinction in Aeronautical and Astronautical Engineering

Dillon Mackenzie Steinhilber, Waldo Zachary Dean Strimbu, Cleveland

Jackson Robert Thurnquist, Cincinnati John Warner Titus, Richmond, VA Colin Weidner Trussa, Brunswick

Mark Thomas Via, Silver Lake Clayton James Vincent, Oregon Eric Andrew Westhaus, Dayton Nicole Lynn Whiting, Elyria

Cum Laude with Honors Research Distinction in Aeronautical and Astronautical Engineering

Victoria Ashley Yee, North Olmsted

Cum Laude with Honors in Engineering

with Honors in Engineering
with Honors Research Distinction in Mechanical
Engineering

Ryan Michael Ziolkowski, New Berlin, WI

# Bachelor of Science in Architecture (Austin E. Knowlton School of Architecture)

Adeeba Husain Arastu, New Hartford, NY
Magang Cum Laude

with Honors in Architecture

with Honors in Architecture with Honors Research Distinction in Architecture

Ashley Shannon Austin, Stow with Research Distinction in Architecture

Vera Alexandra Betancourt, Columbus Christopher Charles Block, Hilliard

with Research Distinction in Architecture

Andrew Michael Burik, Gahanna
Christopher James Burroughs, Kings Mills

Cum Laude

with Honors Research Distinction in Architecture

David Lee Canady, Columbus Thomas Castro II, Arlington Heights, IL Kyle Christopher Clark, Placerville, CA Sarah Elizabeth Cronin, Elkton, MD

Cum Laude with Honors in Architecture

with Honors Research Distinction in Architecture

Joseph James DeRicco, Arlington Heights, IL Taylor Ann Dratwa, Frankfort Honglin Du, Guangzhou, China

Cum Laude with Honors in Architecture

Ximing Du, Beijing, China

Cum Laude with Honors in Architecture

with Honors Research Distinction in Architecture

Andrew John Dwyer, Medina Chloe Maddison Egbert, Anna Rachel Lynn Ghindea, Port Washington

Cum Laude with Honors Research Distinction in Architecture

Ahmed Midhat Gouilos, Akron Keegan Brady Graham, Dublin Maana Cum Laude

with Honors in Architecture Hermon Habte, Columbus

Cum Laude

Ashton Rutledge Harrell, Gahanna Cum Laude

with Honors in Architecture
Benjamin Dale Haywood, Elyria

Benjamin Dale Haywood, Elyria Cum Laude

Rachael Maria Hill, Beavercreek
Cum Laude

with Honors in Architecture

Bryant W. Hovest, Pandora

with Honors in Architecture

with Honors Research Distinction in Architecture

Guanming Huang, Linyi, Shandong, China Tristan Montgomery Huck, Liberty Township Christopher William Humphrey, Glouster with Research Distinction in Architecture

Mason L. Johnson, Cincinnati Tyler Curtis Krebs, Lakewood

Magna Cum Laude

with Honors Research Distinction in Architecture

Danial Khaliq Latif, Dublin Yutong Lu, Taiyuan, China Theodore Roger Lyons III, Hilliard Trace Andrew Martik, McKeesport, PA Cori Elizabeth Medley, Bethesda Theodore Michael Morrow, North Canton

Magna Cum Laude with Honors in Architecture

with Honors Research Distinction in Architecture

Jacquelyn Ruth Nehrbass, Centerville
Cum Laude

with Honors Research Distinction in Architecture Alexandra Oetzel, Bethel

Magna Cum Laude

with Honors in Architecture

with Honors Research Distinction in Architecture

Michael James Penwell, Washington Court House Caroline Constance Proffit, Delaware

Cum Laude Fengzhou Qian, Changsha, China

Jack Michael Raymond, Bradner

Summa Cum Laude

with Honors in Architecture

with Honors Research Distinction in Architecture

Amy Rose Riordan, Petoskey, MI Ryan Nicholas Rudd, Gahanna Renee Annette Saavedra, Maineville Austin Schlosser, Powell Christopher Garrett Schultz, South Point Heyi Song, Beijing, China

Cum Laude
Brian Douglas Spitnale, Alexandria, VA

Zachary Ryan Stewart, Thurman

with Honors in Architecture

with Honors Research Distinction in Architecture Kelsey Renee Swarthout, Chantilly, VA

Magna Cum Laude

James D'artagnan Swider, Mentor
Cum Laude

with Honors in Architecture

with Honors Research Distinction in Architecture Victor Quillula Teixieria, Orlando, FL Ashleigh Rose Urig, Vermillion Rachel Elizabeth Wallace, Bay Village Gavin Walsh, Port Washington, NY Taian Wang, Shenzhen, China Aleah Rai Westfall. Toronto

Cum Laude with Honors in Architecture

with Honors Research Distinction in Architecture

Zhenxiong Yang, Hefei, China Cum Laude

Tyler James Young, Mays Landing, NJ Yanling Zeng, Yangchun, China with Research Distinction in Architecture

Yuan Zhu, Hangzhou, China Cum Laude

#### **Bachelor of Science in Aviation**

Yasmine Abu Arab, Countryside, IL Austin Michael Green, Lancaster Anthony Jacob Letterle, Macedonia DeAndre Anthony Eumekus Smith II, Shaker Heights Victoria Ann Weckenbrock. Cincinnati

Bachelor of Science in

# Biomedical Engineering

Emily Austyn Albrecht, Yellow Springs Magna Cum Laude Mallory Grace Allen, Canfield

with Honors in Engineering

with Honors Research Distinction in Biomedical Engineering Talia Rae Arcieri, Mahopac, NY Summa Cum Laude

Pranay Arora, Westlake

Colleen Marjorie Bendig, Dublin

Zachary James Brannan, Columbus Summa Cum Laude

with Honors in Engineering

Torie Marie Broer, Silver Spring, MD Summa Cum Laude with Honors in Engineering Daniel Canfield, Westerville

Magna Cum Laude Sophie Ann Carus, Peru, IL

ophie Ann Carus, Peru, I Magna Cum Laude

with Honors in Engineering

with Honors Research Distinction in Biomedical Engineering

Charles James Casa, Cleveland

with Honors in Engineering

Jonathan Chang, Gahanna

Summa Cum Laude with Honors Research Distinction in Biomedical

Michael Anthony Ciccone, Poland

Alyssa Marie Dalic, Parma

Engineering

Magna Cum Laude
Erin E. Donnelly, Maineville
Magna Cum Laude

with Honors in Engineering

Taylor Ashley Dunbar, Center Valley, PA

Cum Laude

Jacob John Enders, Chagrin Falls

Summa Cum Laude

with Honors in Engineering
with Honors Research Distinction in Biomedical
Engineering

Julian C. Endres, Dublin

Summa Cum Laude

Jesse Mattison Fine, Hewlett, NY with Research Distinction in Biomedical Engineering

Summer Christine Gallentine, St. Clairsville

Jeffrey Gray, Waterville Cum Laude Claire Hale, Columbus

Cum Laude Justin Yi Han. Dublin

Cum Laude

with Honors in Engineering
Michael Joseph Heyden, Buffalo, NY

Cum Laude
Deborah Youngeun Hong, Columbus

Magna Cum Laude with Honors in Engineering with Honors Research Distinction in Biomedical

Engineering
Riley Hulbert, Mason
Adam Jacobowitz, Livingston, NJ

Graciana Hua Janton, Findlay

Mitchell Thomas Kahn, Sylvania Andrew Charles Kaminski, Centerville Brian David King, Dublin

Magna Cum Laude

with Honors in Engineering
with Honors Research Distinction in Biomedical
Fnaineerina

Helen Krondorfer, Aurora

Cum Laude

Sunny Kwok, Hilliard Magna Cum Laude

with Honors in Engineering

with Honors Research Distinction in Biomedical

Engineering

Cemantha Morgan Lane, Morrow

Magna Cum Laude

with Honors in Engineering

with Honors Research Distinction in Biomedical **Enaineerina** 

Geovanny Lara, Rutherford, NJ Zhimo Li, Beijing, China

Magna Cum Laude Yiting Liu, Shanghai, China

Magna Cum Laude

Alexandria Nicole Loretto, Canal Fulton Alexander Leonard Martinson, Cincinnati Caroline Miller, Quechee, VT

with Honors Research Distinction in Riomedical Engineering

Rachel Elizabeth Novinc, Chagrin Falls

Cum Laude

with Honors Research Distinction in Biomedical **Enaineerina** 

Brooke McKenzie Ott, Medina

Cum Laude

with Honors in Engineering Kishan U. Patel, Dublin

Maana Cum Laude

Alexander David Paul, Cincinnati

Maana Cum Laude

Brittany Penn, Cleveland Cum Laude

Joel Pepper, Westerville

Cum Laude Teresa Porter, Bellbrook

Maana Cum Laude

Ryan Paul Prieto, Avon

Summa Cum Laude

with Honors in Engineering

Corinn Leann Pruitt, Bellbrook Cum Laude

# Qinwan Rabbani, East Liverpool

Cum Laude

with Honors in Engineering

with Honors Research Distinction in Biomedical Engineering

Archit Rede, Avon

Cum Laude

Nicholas Henry Rieger, Rochester, NY Cum Laude

Dalton Beaux Rowell, Marvin, NC

Austin Cole Sandlin, Franklin

Tony Derrick Satroplus, Reno, NV

Maana Cum Laude with Honors Research Distinction in Biomedical

Engineering

Katrina Marie Schroeder, Milford

Magna Cum Laude

with Honors in Engineering Aaron James Seibel, Celina

Maana Cum Laude

Aurko Jyoti Shaw, Centerville

Cum Laude

with Honors in Engineering Griffin Bankes Spychalski, New Albany

Summa Cum Laude

with Honors in Engineering

with Honors Research Distinction in Biomedical

Engineering

Adam Bennett Steinle, Arlington Heights, IL Cum Laude

Jenna Marie Tabbaa, Westlake

Magna Cum Laude

with Honors Research Distinction in Biomedical Fnaineerina

#### Rachel Helen Teater, Hilliard

with Honors in Engineering

with Honors Research Distinction in Biomedical Engineering

Hannah Louise Thek, Melbourne, Australia Maana Cum Laude

Yi Wei, Nanjing, China

Cum Laude Tirzah Jean Ayita Weiss, Centerville

Maana Cum Laude with Honors in Engineering

Zihui Xu, Ruichang, China

Maana Cum Laude Bofei Zhang, Jining, China Summa Cum Laude

#### Rachelor of Science in **Chemical Engineering**

Joseph Benjamin Adams, Strongsville Dylan Andrew Ahonen, Lewis Center Abay Akturin, Agtobe, Kazakhstan Emily Kate Ambuehl, Clarksburg, MD Kaycee Lee Ash, Fort Lauderdale, FL

with Honors in Engineering Keith Dean Bair, North Lima Christopher David Baldwin, Chardon Grayson Ball, Kingsport, TN

Robert Alexander Balli, Akron

Cum Laude

with Honors Research Distinction in Chemical

Cum Laude

Engineering Daniel James Bechek, Pittsburgh, PA

Michelle Nicole Bertrand, Olmsted Falls Cum Laude

Eric Bissonnette, Cuyahoga Falls Evan Christian Boehlefeld, North Royalton Kevin Patrick Bowman, Bellbrook Aidan James Brady, Cleveland

Meghan Anne Buckley, Youngstown Coby Scott Burckard, New Albany

Summa Cum Laude Domenic Joseph Camino, Kirtland

Cum Laude

Peter James Canepa, Columbus Joseph Casciano, Salem, CT

Magna Cum Laude with Honors in Engineering

Daniel Patrick Casev, Akron Monica Grace Chan, Cleveland Baoqi Chang, Hangzhou, China Kate Morgan Clelland, Dublin

Cum Laude Eric Matthew Collins, Beaver Falls, PA Zachary David Thomas Collins, Oak Harbor Matthew Ryan Contini, Brentwood, TN Garrett Jack Coppler, Marion Kelsey Danielle Crawford, Hudson David Reynold D'lima, Cincinnati Wen Dai, Shanghai, China Riley Marie Daulton, Dublin Magna Cum Laude

Brandon James Dean, Columbus

Justin Thomas Dilenschneider, Dublin Magna Cum Laude

with Honors in Engineering

with Honors Research Distinction in Chemistry

Nicole Marie DiRando, Cleveland

with Research Distinction in Materials Science and

Engineering

Jocelyn Elizabeth Earle, Wadsworth Joshua Epperson, Ball Ground, GA Jesse Colter Feiler, New Richmond Scottie L. Ford II, Wellston

Alexander Mitchell Gabanic, Avon Lake Kyle Matthew Gersman, Akron Magna Cum Laude

with Honors in Fnaineerina

Katarina Elise Goodge, Chardon

Maana Cum Laude

with Honors in Engineering Akil Samir Gore, Columbus

Garrett Thomas Greco, New Albany Maana Cum Laude

Ellen Marie Harrell, Dublin Annamarie Therese Helpling, Cincinnati

Cum Laude with Honors in Fnaineerina

Kevin Michael Herbig, Cincinnati Alexander Santana Hernandez, Dayton

Cum Laude Jennifer Marilyn Hoelzer, Paw Paw, IL

Cum Laude Jonathan Jih, Cincinnati

Scott Dean Kanta, Parma Heights Cum Laude

with Honors in Engineering

Vasiliki K. Kolliopoulos, Velo, Greece Maana Cum Laude

with Honors Research Distinction in Mechanical Engineering

Kelly Lynn Kolotka, Morris, IL

Cum Laude with Honors in Engineering

with Honors Research Distinction in Chemical

Enaineerina

Nathan Dominic Koval, Blacklick Olivia Katherine Krebs, Rocky River

Cum Laude Tyler Joseph Krupp, Tiffin

Magna Cum Laude with Honors in Engineering Matthew John Landis, Stow

Allison Marie Larger, Sidney Matt Lee, Leroy Township Chunyi Li, Kunming, China

Magna Cum Laude John Douglas Lloyd, Kalamazoo, MI Cum Laude

Kian Boon Low, Kota Bharu, Malaysia Maana Cum Laud

Sarah Elizabeth Lyons, Wooster Cum Laude

David James Maholage, Murrysville, PA Leila Mansour, Mentor

Andrea Martinez, Mason Magna Cum Laude

with Honors in Engineering Brian Masten, North Bellmore, NY

Anne Marguerite McAlister, Liberty Township Summa Cum Laude

with Honors in Engineering Lindsay Rae McCalmont, Mason

Cum Laude with Honors in Engineering John William McGrogan, Westlake Summa Cum Laude

with Honors Research Distinction in Chemical Fnaineerina

John Christian McNelis, Strongsville Stephen William Merriman, Novelty . Magna Cum Laude

Sean Patrick Miller, Cincinnati Benjamin Naragon, Akron Chloe Nemchik, Brunswick Andrew Kevin Nouanesengsy, Columbus Quincy Maureen O'Malley, Flossmoor, IL

with Honors in Engineering

Nathaniel Olson, Defiance Summa Cum Laude

Cum Laude

with Honors Research Distinction in Chemical Enaineerina

Kaan Ozadali, Newburgh, IN

Cum Laude Yuriy Partyka, Cleveland

Cum Laude

Rutva Patel, Painesville Cum Laude

Mitchell Pearson, Hilliard Veronica Erin Peterson, Poughkeepsie, NY Tyler Davis Poff, Plain City

Zachary Raymond Power, Cranford, NJ Steven Michael Quarin, Centerville

Joshua Allen Rawlins, Marion Magna Cum Laude

Matthew James Regan, Mason Alan Joseph Renner, Eaton Cum Laude

Brandon Joseph Renner, Eaton Eva Marie Rezek, Bay Village Cameron Alexander Riffle, Mason Elanna Blair Rosner, Cleveland Stuart Martin Ruck, Beavercreek David Joseph Ruffner, North Royalton Joseph Michael Sadauskas, Fox Lake, IL

Youcef Saidi, Dublin Cum Laude

Samuel David Schuver, Painesville Carly Christine Schwarm, Hamilton Alex Joseph Seibel, Celina

Maana Cum Laude with Honors Research Distinction in Mechanical

Engineering Adit Shah, Ahmedabad, India Spandan Nimish Shah, Upper Arlington

Cum Laude Nora Shaheen, Amman, Jordan with Research Distinction in Chemical Engineering

Kapil Visveswaran Shankaran, Dublin . Magna Cum Laude

with Honors in Engineering

Nahila Hadia Sharif, Glastonbury, CT Stavroula Christianna Soulas, Avon with Research Distinction in Chemical Engineering Alexander Patrick Spanos, Sheffield

Cum Laude Nina Marie Stanfar, Strongsville Nacara Rae Starnes, Ashland Kaitlin M. Stechschulte, Fort Jennings

Maana Cum Laude Samantha Marie Stephens, Dayton David Charles Michael Sypert, Champion Wei Zhi Tan, Butterworth, Malaysia Kiboh Patrick Uchida, Washington, PA

Maana Cum Laude

Sara Marie Warner, Wapakoneta Magna Cum Laude

Lucas Joseph Watson, Quincy, IL Magna Cum Laude

with Honors Research Distinction in Chemical Fnaineerina

Benjamin David Weisman, Dayton

Magna Cum Laude Timothy Chi Wong, Dublin

Anthony Nicholas Yassall, Warren Cum Laude

Bryan Wen Jian Yee, Kuala Lumpur, Malaysia

Joshua Stephen Yeh, Houston, TX

Choon Zhen Yeoh, Glugor, Malaysia Sally Anne Yi, Dublin Cum Laude

Michelle Peng Zhou, Columbus with Honors in Engineering

#### Bachelor of Science in City and Regional Planning (Austin E. Knowlton School of Architecture)

Mercedes Lynn Bann, Washington Court House Jorge Carrillo, Jr., Columbus Sarah Nicole Davis, Dublin

Maana Cum Laude with Honors in City and Regional Planning

Maria Colleen de Caris, Cleveland

Cum Laude with Honors in City and Regional Planning with Honors Research Distinction in City and Regional Planning

Margaret Geppert, Columbus

Cum Laude with Research Distinction in City and Regional

Tad Hawthorne, Santa Clarita, CA William John Hehemann, Cincinnati Chad Alan Kinsworthy, Columbus Maana Cum Laude

Sarah Lagpacan, Fishers, IN Summa Cum Laude

with Honors in City and Regional Planning Ashley Leddy, Westerville Andrew James Love, Columbus

Reyna Rachel Lusson, Columbus . Magna Cum Laude

with Honors in City and Regional Planning David Michael Marlow, West Carrollton Javier Manuel Melendez-Galinsky, Montclair, NJ

Cum Laude with Honors in City and Regional Planning with Honors Research Distinction in City and Regional Planning

Derek Craig Miller, Copley Nicholas John Parks, Marengo Alaina Pauline Parrish, Westerville

William Carl Plumley, Sun Prairie, WI

with Honors Research Distinction in City and Regional Planning

Andrew Romanoff, Beachwood Alyssa Saltzman, Solon Yumeng Sun, Nanjing, China Adam David Trimmer, Raleigh, NC Nathan David Vale, Fairport Harbor Maria Walliser-Wejebe, Columbus Summa Cum Laude with Honors in City and Regional Planning

Michael Lee Widman, Columbus Alexander Matthew Wooledge, Lorain Maana Cum Laude

#### Bachelor of Science in **Civil Engineering**

Sophia Audrey Adcock, Los Angeles, CA Hamed Ahmad Akileh, Columbus Manuel Hernan Aleman IV West Chester George Antonios, Columbus Samuel Kirby Aprile, Lakewood Cum Laude

Michael Thomas Bange, Beavercreek Maana Cum Laude

Jason Scott Biltz, Millersburg Jesse Daniel Cannell, Columbus Bryan David Check, Copley Maana Cum Laude

Adam Phillip Cincione, Columbus William Jacob Cochran, West Portsmouth Austin Albert DiAntonio, Pickerington Cum Laude

Kent H. Dinchman, Westlake Adam Scott Dorfman, Millstone Township, NJ Morgan Louis Driever, McMinnville, OR Aaron Englehart, Republic

Magna Cum Laude Eric S. Evanoo, Hilliard Daniel Robert Flower, Dublin Dun Yu Foo, Petaling Jaya, Malaysia Maana Cum Laude

Sarah Marie Freiheit, Worthington Summa Cum Laude

Kevin Arthur Garred, Mentor Christopher Joseph Gerber, Pawleys Island, SC Curtis J. Gross, Morrow

Magna Cum Laude Jiawei Gu, Shanghai, China Daniel Kevin Hayes, Reynoldsburg Brady Michael Hildebrand Brunswick Eric James Hoffman, Dublin Tyler Gregory Jackson, Norwalk

Robert Joseph Jankovsky, Brunswick Cum Laude Matthew Scott Kaczinski, Perrysburg

Vincent Michael Kampel, Cincinnati Austin Kelly, Rocky River

Chase Richard Kelly, Marion Magna Cum Laude

Jake Riley Koltiska, Perryopolis, PA Ryan Andrew Kress, Loveland Songlin Liu, Chongging, China Sally Ann Locher, Columbus Kevin Maas, Cary, IL

Cum Laude Catherine Page McNutt, Beavercreek Ryan Mellett, Castle Pines, CO Cole Michael Mertz, Celina Summa Cum Laude

Musse Shuceeb Mohamud, Columbus Thomas Josef Morehouse, Cuyahoga Falls

Ruben Grayson Morgan, Westerville Magna Cum Laude with Honors in Engineering

Matthew Thomas Morissette, Frisco, TX

Tyler Ronald Morris, Hudson Nicholas Christian Moschetti, Perrysburg Ruby Ng, Columbus John Timothy O'Neill, Pompton Plains, NJ Andrew Weichia Ong, Strongsville Matthew Joseph Ovnic, Canton

Cum Laude Collin P. Paich, Medina Summa Cum Laude

David William Palmer, Strongsville Ryan Todd Pepper, Uniontown Magna Cum Laude

Shehan Rointon Perera, Columbus Georgie Rae Ravelli, Dayton Cum Laude

Kevin James Retta, Cincinnati Dane Evan Douglas Rini, Delaware Raymond Charles Roll, Cincinnati

Cum Laude with Honors in Engineering

Brandon Rose, Plainview, NY Samuel Aaron Rosenberg, Memphis, TN Rhett Austin Howell Rosengarten, Sidney Ashley Saba, Pittsburgh, PA Alyssa Lauren Samarco, Pittsburgh, PA Kendra Sue Sanelli, North Royalton Jerry Gabriel Sanor, Beloit Tyler Robert Sarver, North Canton Collin James Schroeder, Leipsic Noah Christopher Schuster, Columbus Jonathan Tyler Shurilla, Poland Vincent Yuanto Susetyo, Jakarta, Indonesia Cory Dylan Svatosky, Poland Joseph James Torok, Brecksville Ryan Douglas Tucker, Brewster Emma Marshall van Dommelen, Columbus

with Research Distinction in Environmental Engineering Kelsey Christine Vandia, Dublin Ross Edward Vennekotter, Ottawa Chelsea Marie Vretenar, San Rafael, CA Junyi Wang, Beijing, China Cum Laude

Emma Elizabeth Wangsness, Redwood City, CA Cum Laude

Kierra Marie Wiggins, Washington, DC Luke Warren Willman, Delaware Luke Robert Wittke, South Euclid Maana Cum Laude

Shelby Caitlyn Wojno, Lake Orion, MI Caroline Chia Hue Wong, Powell Robin Catherine Wood, Athens Kaela Olivia Worman, Hanover Park, IL Matthew Joseph Wozniak, Avon Lake Paige Corinne Wright, Chillicothe Cum Laude

Luoyi Yang, Wuhan, China Summa Cum Laude

Qingyuan Zheng, Shenyang, China Changyu Zhou, Dalian, China Abbey Michelle Zimmer, North Royalton

# **Bachelor of Science in Computer** Science and Engineering

Samer Munther Abusway, Strongsville Cum Laude with Honors in Engineering

Justin Scott Adams, Reedsville, PA Cum Laude

with Honors in Engineering

Kathryn Rose Adamsky, Dublin Magna Cum Laude

Eid Sam Al-rabadi, Westerville Jennifer Alarcon, El Paso, TX Maana Cum Laude

Jacob Burton Alvord, San Diego, CA Jared Ryan Axelrod, Chagrin Falls Brian Christopher Baker, Avon Summa Cum Laude

Michael Howe Bayless, Athens Maana Cum Laude

Brett Michael Boehmer, Canal Winchester Daniel Monroe Bond, Bexley Maana Cum Laude

Jesse Thomas Buckley, Fort Recovery Thomas William Burnett, Magnolia Cum Laude

Justin Tyler Carruthers, Browns Summit, NC lan Thomas Cheatwood, Troy

Benjamin Anthony Clarke, Cincinnati Cum Laude

with Honors in Engineering

Joshua James Clyde, Liberty Township David Bradford Cole, Dublin Cum Laude

Tyler Michael Collison, Lancaster Summa Cum Laude Derek Alan Coventry, North Canton

Christopher Allan Crain, Niles Jin Dai, Jinan, China Summa Cum Laude

Wesley Hudson Darvin, Beachwood Maana Cum Laude with Honors in Engineering

Seth Alexander Delbridge, Floyds Knobs, IN Tommy Anthony Delgado, Columbus Sophia Marie DeRosa, Cincinnati Mohit Deshpande, Beavercreek

Magna Cum Laude with Honors Research Distinction in Computer Science and Engineering

Daniel Dillon, Solon

Jianyi Ding, Dublin Cum Laude with Honors in Engineering

Zachary Dinsmore, Columbus Maana Cum Laude

Kayli Choy Doll, Chesterland Cum Laude Dakota Matthew Duncan, Seville

Magna Cum Laude Peter Anthony Edin, Naples, FL Si Fang, Beijing, China

Summa Cum Laude Jeff Edward Feldmann, Columbus

Daniel Flax, Gaithersburg, MD Summa Cum Laude with Honors in Fnaineerina

Andrew Elwood Fox, Wellington Magna Cum Laude

Stefan Fraga, Wooster Gary William Fridenmaker, Springboro Drew Thomas Gallagher, Kent Allison Marie Galuska, North Royalton Krishna Ganesan, Glenmoore, PA Erin George, Mason Cum Laude

Tennison Geier Gray, Columbus Magna Cum Laude

Matias Dyami Grioni, Twinsburg Summa Cum Laude

Brian Robert Groenke, Madeira Cum Laude Chuanjing Guo, Fuzhou, China Niharika Gupta, Mumbai, India Remington Blake Hackbarth, Coldspring, KY Thomas John Haight, Mentor Nicholas Anthony Hallisy, Cleveland Heights Michael Paul Hamill, Columbus Nathan Ray Hammonds, Gahanna Shuming He, Beijing, China Eric Alan Hemphill, Copley Lamarr Henry, Dayton Cum Laude

Jonathan Michael Herrera, Miami, FL Elizabeth Bronwyn Heym, Bexley

Summa Cum Laude with Honors in Engineering Haoqi Hu, Chengdu, China

Maana Cum Laude Sved-Amad Ashraf Hussain, Columbus with Honors Research Distinction in Linauistics

Christopher James Milton Hutchinson, Columbus

Nathan Rafael larve, Centerville Omar Ahmed Ibrahim, Chelmsford, MA Cum Laude

Jeffrey Michael Jarry, Dublin Joshua Harris Kahn, Mukilteo, WA Maana Cum Laude

Vvvom Bhooshan Kelkar, Columbus Cum Laude

with Honors in Engineering Daniel Joseph Kennon, St. Clairsville

Jae Dong Kim, Paju, Korea Dylan Colbert Knaplund, Tiffin

Summa Cum Laude with Honors in Engineering

Mark Jeffery Koozer, Westerville Kurtis Robert Kuszmaul, Warren Ben Prakash Lall, Dublin Joshua Lan, Beavercreek

Jeremy Michael LeDonne, Cuyahoga Falls Summa Cum Laude

Yuping Liang, Changsha, China Adrien Lindner, Shalimar, FL Maana Cum Laude

Ryan Shuche Liu, Fremont, CA Phillip Robert Loveland, Kalida Zachary Scott Lucas, Woodville

Cum Laude Nicholas Emery Luckenbach, Grandview Heights

Brian Thomas Lutz, Chagrin Falls Chance Logan Lytle, Belpre Cum Laude

with Honors in Engineering Owen Michael Maher, Galena Gabriella S. Marinescu, Berlin Center Clayton William James Mason, Lowell

Magna Cum Laude with Honors in Engineering

Maxwell Joseph McDavid, Canal Winchester Johan Alexander McGwire, Dublin Quinn Michael McHugh, Mason Maana Cum Laude

Dillon James Merritt, Mentor Nicholas Carl Meyer, Worthington

Maana Cum Laude Amy Miao, Columbus

Cum Laude

with Honors in Engineering Gabrielle Francesca Miguel, Kenosha, WI Casey Steven Miller, Pickerington Brandon Robert Minner, Cincinnati Trevor Jon Monteforte, Seven Hills Shawna Ann Moore, Galloway Patrick Brenden Muller, Temple, TX Sean Timothy Nemann, Crescent Springs, KY Summa Cum Laude

with Honors in Engineering

Tony Thanh Nguyen, Cleveland Adam Matthew Ovak, North Canton Summa Cum Laude

Patrick John Pastore, Shaker Heights Magna Cum Laude

with Honors in Engineering Sunny Bimal Patel, Northfield Magna Cum Laude

Austin Payne, Broken Arrow, OK Nicholas Evan Perrin, Cincinnati Brad Michael Pershon, Delaware

Maana Cum Laude Steven Pidcock, Columbus Justin Pinsky, Plainview, NY Andrew Logan Pitrof, Dayton Tytus Isaac Planck, West Chester Evan Andrew Pliska, Hilliard Cum Laude

Brennan Tre Plowman, Cardington Nicolas James Pouliquen, Eden Prairie, MN Maxwell Ronald Powell, Columbus Magna Cum Laude

Lucas Alan Puskaric, Mokena, IL Nianyun Qi, Columbus Kevin C. Quach, Reynoldsburg Maana Cum Laude

Babak Rafian, Columbus Trevor Rambacher, Miamisburg Bobak Danial Rashidnia, Westlake Andrew Michael Relyea, Chagrin Falls Magna Cum Laude

Richard Beck Renner, Chagrin Falls Cum Laude

Siddartha Venkata Subbu Revur, Columbus Cum Laude

with Honors in Fnaineerina

Riley Hurley Richards, Lewis Center Cum Laude

Adam Roller, Mason Kyle Andrew Rossman, Jenera Akshat Saini, Mumbai, India Allison Frances Salach, Cincinnati Joshua Jon Sandvick, North Royalton Maana Cum Laude

with Honors in Integrated Business and Engineering David Joshua Sauder, Pettisville Eric Lucas Schirtzinger, Worthington Jonathan Michael Seaman, Garrettsville Mubasil Ajmal Shamim, Columbus Daniel Edward Shawlson, Fairlawn

Magna Cum Laude David Sinchok, Hudson Melissa Ann Sjostrom, Adrian, MI Nicholas Scott Skiljan, Chagrin Falls with Honors in Engineer Benjamin Dean Smith, Columbus Dylan Franco Smith, Strongsville

Tyler William Snyder, Cincinnati Gregory Allen Sop, Jr., Youngstown Aishwarya Srivastava, New Delhi, India Magna Cum Laude

Kenton Lee Steiner, Wooster Jamie Roberta Steines, Warren Adam Dee Sturgeon, San Diego, CA Zeyang Su, Shenzhen, China Summa Cum Laude

Allison Elizabeth Subtelny, Columbus Peiyuan Tang, Beijing, China

Summa Cum Laude with Honors in Engineering

Alexander James Tareshawty, Canfield Summa Cum Laude

Kyle Kenneth Thompson, Canfield Kevin Thai-Hung Truong, Columbus Alexander Robert Turner, North Olmsted

Magna Cum Laude Rezeki Advana Utomo, Jakarta, Indonesia Summa Cum Laude

Nikhil Vinay, Columbus Kevin Pao-Chi Wang, Columbus Yian Wang, Beijing, China Zachary Michael Weatherly, Perkins

Cum Laude with Honors in Engineering

Allen Wenzl, Avon Sean Patrick Whitehurst, Kings Mills Alexander Brian Williams, Hudson Maana Cum Lau

Connor Winton, Westerville Jingyuan Xu, Lewis Center Cum Laude

Linxin Yang, Qingdao, China Yuchen Ye, Beijing, China Samuel Andrew Yinger, Somerset Ki Lam Yip, Avon

Cum Laude Lucas Michael Yost, Marysville

Cole Thomas Zavar, Plain City Lingfeng Zhang, Kunming, China Zheng Zheng, Wenzhou, China

Maana Cum Laude Mary Zhimei Zhou, Powell

Cum Laude

Minghao Zhu, Tianjin, China Maana Cum Laude

# Bachelor of Science in **Electrical and Computer Engineering**

Jonathon Accurso, Casstown David Christopher Adkins, Columbus Cum Laude

Adam Michael Agosta, Circleville Cum Laude

Mohamed Farah Ali, Columbus Zachariah Hafez Alkhayri, Powell Nathaniel Henry Annable, Vermilion Matthew Andrew Appel, Canal Winchester Cum Laude

Graham Thomas Arnold, North Canton Hassan Hashem Assaf, Columbus Nicholas Michael Baroni, Columbus Adam Jeffrey Baxter, Lebanon Matthew Liam Behnke, Willougby Christopher Edward Bennett, Geneva John Hillman Bennett III, Norwood Mark Beshara, Lewis Center Meghan Booker Loudon, NH

Summa Cum Laude with Honors Research Distinction in Electrical and Computer Engineering

Robert W. Bradbury, Columbus Eric Brees, Amelia

Brendan Jeffrey Brosnahan, Columbus Samuel Edward Brunson, Chagrin Falls Preston Edward Bryan, Delaware Adam Charles Buehler, Botkins Summa Cum Laude

Sean Patrick Burns, Parma, MI Harold E. Careins, New Lexington William Casey, Akron Cum Laude

lan Michael Chan, Solon Sharon Yun-Shin Chan, Columbus Robert Y. Chen, Atlanta, GA Siqi Chen, Shanghai, China Wenda Chen, Nanjing, China Cum Laude

Anthony Paul Colozza, Olmsted Falls Evan James Connaughton, West Chester Chenxi Dai, Chenadu, China Chance Joseph Davis, Columbus Joshua Ekers, Wadsworth Matthew Edward Elswick, Marion Timothy Erick Evans, Cleveland Estefania Fernandez,

Barrancabermeja, Colombia Nicolas Fernandez, Barrancabermeja, Colombia Cum Laude

Mitzi Yazmin Fernandez Herrera, Columbus Robert Lewis Fink III, Columbus Richard Martin Flagg, Mentor Joni Allen Ford, Cincinnati

Cum Laude Brendan Alexander Fuller, Dublin Grant Michael Gallagher, Mount Airy, MD

Magna Cum Laude Shengchang Gao, Beijing, China

Magna Cum Laude Ahmed Almostafa Taha M Gashqash, Columbus

Summa Cum Laude Corey Austin Gibson, Zanesville

Zhibo Gou, Perrysburg Maana Cum Laude

Nathaniel Zachariah Griest, Springfield Jesse Adam Griffen, Aurora Haonan Guo, Hohhot, China

Magna Cum Laude Umer Haider, Powell John Paul Haugan, Beavercreek Qingdao Hu, Jinan, China Tianhang Huang, Beijing, China

Zehan Anosh Irani, Columbus Donna Izadnegahdar, Cleveland Alan Travis Jaski, Palos Park, IL Joshua Shakespeare Jenkins, Hamilton Michael Joseph Johnson, Hilliard Magna Cum Laude

with Honors in Engineering Larry Luis Jones, Memphis, TN Magna Cum Laude

Robert Paul Kahmann, Dayton Kevin Hensleigh Kester, West Chester Maana Cum Laude

Grant Joseph Kiefer, Danville Dylan Jacob Klein, Westport, CT Erika Klek, Cleveland Jacob Kreuzer, Mount Vernon Faith Eleanor LeMay, Peninsula Maana Cum Laude

Zhiyuan Li, Shanghai, China Magna Cum Laude David Philip Linden, Sandusky

Ryan Burr Linnabary, Sunbury Cum Laude

with Honors Research Distinction in Electrical and

Computer Engineering Shihao Liu, Dalian, China

Summa Cum Laude

Derek Ryan Longshore, Tipp City Mark Scott Lust, Hilliard Cum Laude

Allison Renee Mack, Columbus Christopher Juris Mangulins, Columbus Matthew Angelo Manoleras, Beaver, PA Tianning Mao, Ningbo, China Craig Nelson Martin, Hilliard Chester Daniel Matthews, Centreville, VA Griffin William Maxwell, Columbus

Maana Cum Laude Ian Charles McCabe, New Albany Kevin Douglas McKnight, Lewis Center Rediet Endalew Metiku, Reynoldsburg Adam Patrick Mizes, Strongsville Trisha Mohan, Columbus

Cum Laude Ahmad Isyraf Imrani Mohd Zakil Hussin, Kuala Lumpur, Malaysia

Bowen Mu, Tianjin, China Magna Cum Laud

Mahnoor Nagyi, Dublin Cum Laude

Garrett Blaine Nease, Portsmouth

Chau Tran Minh Nguyen, Ho Chi Minh, Vietnam Cum Laude

Joshua Michael Oberster, Pickerington Benjamin Arthur Papineau, Columbus Aakash Rajeshkumar Patel, Columbus Meet Ketan Patel, Ahmedabad, India Joseph G. Pilla, Cleveland Cum Laude

Patrick Francis Pirrmann, Powell Cum Laude

with Honors in Engineering

Aaron Ray Pycraft, North Ridgeville Magna Cum Laude

Michael Connor Reinertsen, Greenlawn, NY Travis James Remlinger, Gurnee, IL Olivia Racine Richardson, Wyoming Brody Thomas Ringler, Ashland Zachary Chase Ritter, Millsboro, DE Ryan David Ruch, Strongsville Matthew James Rutan, Powell Steven Edward Saliba, Qaa Er Rim, Lebanon

Maana Cum Laude Matthew Andrew Sawka, Richfield Brandon Robert Scarl, Columbus Ammar Ghaleb Shkoukani, Dublin

Phillip Shvartsman, Twinsburg Cum Laude

Hongliang Si, Beijing, China

Joshua Robert Simmerson, Powell Maana Cum Laude

Joshua Nathan Sines, Hilliard Summa Cum Laude

with Honors in Engineering Harsh Vardhan Singhania, Columbus John A. Siracusa, Willoughby Luke Charles Smith, St. Clairsville Tory D. Smith, Folsom, CA

Maana Cum Laude Evan Stoddart, Pittsburgh, PA

Magna Cum Laude

Daniel David Stone, Marion Eric Strotman, Sharonville Cum Laude

Sachin Sunny, Lewis Center Tanya Suri, Columbus Trevor Carl Tallos, Polk Summa Cum Laude

Jalen Anthony Tate, Hudson Samuel James Taylor, Whitehouse Wesley Joo-Chen Thio, Columbus Jake R. Thompson, Enon Caleb Paul Trevithick, Morrison, CO Geet P. Tripathi, Cincinnati Sala Uddin, Columbus Matthew Paul Viens, Cincinnati

Summa Cum Laude Ramandeep Singh Vilkhu, Lewis Center Summa Cum Laude

with Honors in Engineering

with Honors Research Distinction in Electrical and Computer Engineering

Joseph Thomas Wagner, Findlay Jonas Aaron Wahl, Grove City Hanming Wang, Shanghai, China Shanwen Wang, Columbus Magna Cum Laude

Xinyang Wang, Beijing, China Magna Cum Laude

Nathan A. Weirich, Reynoldsburg Brett Whitford West Chester

Summa Cum Laude

with Honors Research Distinction in Electrical and Computer Engineering

Benjamin Matthew Wintering, Lewis Center Cum Laud

Zevuan Xu. Columbus

. Maana Cum Laude

with Honors Research Distinction in Electrical and Computer Engineering

Kongxuan Yan, Beijing, China Sigi Zeng, Chengdu, China Haocheng Zhu, Wenzhou, China

Maana Cum Laude Minghao Zhu, Tianjin, China Maana Cum Laude

Yingqi Zhu, Columbus Yunze Zhu, Hangzhou, China John Zielinski, Bolingbrook, IL Jeffrey Anthony Zivkovic, Mentor

## Bachelor of Science in **Engineering Physics**

Anne Marilyn Carter, Hudson

Summa Cum Laude

with Honors in Engineering Evan Michael Cornuelle, Cincinnati Nimit Tushar Desai, Cincinnati Juan Christopher Esparza, Reynoldsburg Mark Robert Fisher, Solon Brian James Haugen, Ann Arbor, MI Chih-En Huang, Hacienda Heights, CA

Macy Joan Huston, Circleville Magna Cum Laude

> with Honors in Engineering with Honors Research Distinction in Astronomy

Michael Joseph Kachmarik, North Royalton Kristen Hahyeon Kim, Powell Laurence Taher King, Chardon Maana Cum Laude

Junchao Lin, Shenzhen, China Maana Cum Laude

August Randall Mason, Marietta Tristan Thomas Mooney, Millersport Cum Laude

with Honors in Engineering

Layla Barrie Nosek, Chesterland John Peter Rawlinson, Leonardtown, MD Collin Sebastian Roberts, Springfield

Magna Cum Laude with Honors in Engineering

Christopher Randal West, Milton, DE

#### Bachelor of Science in **Environmental Engineering**

Gabrielle Leigh Ansberry, Naperville, IL Daniel Anugerah, Columbus Alexandra Maria Baratucci, Mayfield Bailey Michelle Burdue, Toledo Lucas Michael Downing, Warren Nina Elizabeth Duerk, Vancouver, WA Johnston Thomas Duffey, Cambridge Cum Laude

Erika Lynn Ellman, Middlefield Spencer Thoreau Flynn, Alexandria Alexandra Katlin Frederick, Morrow Cum Laude

Joshua David Fuchs, Canton Benjamin James Gaughan, Damascus, MD Melissa Marie Hall, Mount Vernon Ezekiel Allen Harrison, Westerville Mary Cassandra Hofmann, Cincinnati Stephen Paul Kopechek, Blacklick Ryan Eric McMullen, Columbus Cum Laude

Clint Joseph Oliver, Cincinnati Sai Vara Prasad Pamidimukkala, Hyderabad, India Austin John Prokup, Waterville

Cum Laude

Calvin Schutt, Whitehouse Chuyun Sun, Xiamen, China Anna Elizabeth Thompson, Sherrodsville Siena Van Horne, Georgetown, KY Lingyi Xu, Hangzhou, China Cum Laude

Jingtong Zhao, Shanghai, China Magna Cum Laude

#### Bachelor of Science in Food, Agricultural, and **Biological Engineering**

Aya Mohammed Alwan, Dublin Santiago Avila, Lewis Center Monica Renee Backs, Elyria Jessica Rose Belcher, Troy, MI Cum Laude

Craig Alan Bennett, Cincinnati Jacquelyn Jane Blanchard, Cincinnati Cum Laude

with Honors in Engineering

Kathryn Margaret Boening, Glenbeulah, WI Gerard Edward Braun II. Celina John Bartley Brett, Leroy Nicholas Garrett Brumfield, Amanda Charlotte Elisabeth Bucy, Pickerington Emilie Marie Buisson, Cincinnati Cum Laude

Taylor Bethelen Burrowes, Enon

Kevin James Caldwell Columbus Jackson Michael Caruso, Oswego, IL Usoshi Chatterjee, Mason Christopher Michael Chisolm, Granville Ethan Alan Christian, Medina Olivia Dawn Collins, Reedsville Brennan Angelo Cordova, North Canton Cum Laude

with Honors in Engineering

Chloe Cain Criswell, Twinsburg Jasmine Selassie Davis, Cincinnati Matthew Jordan Dorn, San Diego, CA Sean Robert Driscoll, Hilliard Adrean Marie Evans, Dexter City Lucas James Froelich, Monclova Jacob Michael Prephan Gallerno, Perrysburg Celene Claire Gielink, Los Angeles, CA Cum Laude

with Honors in Engineering

Erica Kristin Gilliland, Centerville Tushar Goswami, Beavercreek Alex Librado Granados, North Royalton Carson Ashley Greco, Westlake Alexander Gregory Greve, Wapakoneta Shi Ming Guo, Carrollton, KY Quinn Dufour Harnett, Akron Maana Cum Laude

with Honors in Engineering

Clarissa Jean Heigley, Crooksville Kristina AnnaMaria Henneke, Fairborn Ashley Elizabeth Hessin, Mason Timothy William Adam Hirth, Mount Sterling Cum Laude

Sarah Kristine Hopton, Wickliffe Nathan Horstman, Cincinnati Henry Cole Houser, Clayton, NC Holly Anne Huellemeier, Georgetown, KY Summa Cum Laude

with Honors in Engineering

Ryan Lee Jeon, Cupertino, CA Eric Michael Johnson, Delaware Brian Douglas Klever, Pickerington Jeffrey David Laux, Cuyahoga Falls Brandon Lim, Germantown, MD Michelle Marie Maag, Ottawa

Maana Cum Laude Ashley Marie Michael, Anna

Alexandria Monee Morton, Cincinnati Drew Allison Netts, Urbana Minh Kien Nguyen, Columbus Hannah Oeder, Milan Daniel John Peyton, Jr., Cleveland Farhan Syed Quadri, Hilliard Jacob Thomas Radeff, Olmsted Falls Alexandra Marie Repke, Upper Arlington Michael Andrew Salmond, Villa Park, CA Patrick William Sanders, Cincinnati Cum Laude

Colin Michael Sasthav, Cincinnati Magna Cum Laude

with Honors in Engineering

Cole Christopher Saylor, Belle Center Matthew Richard Sells, Dayton Cum Laude

with Honors in Engineering

Lauren Alexandra Sester, Milford Daniel Harrison Silberstein, Gahanna John J. Silvestri, Columbus Anna Mayumi Sims, Louisville, KY Benjamin James Steedman, Holland Garrett William Steinbeck, Macedonia Michael Peter Stevenson, Cincinnati Ross Wesley Stoffer, Canfield Samuel Hayden Storts, Sugar Grove Alexis Elizabeth Swanson, Sidman, PA Christopher Heath Tracy, Granger, IN Cum Laude

Nikolas Alan Wagoner, Perrysburg Matthew James Wesley, Evansville, IN Sarah Elizabeth Winfree, Pickerington Jacob Brian Zimmerman, North Royalton

# Bachelor of Science in Industrial and Systems Engineering

David Alan Anderson II. Massillon

Anthony Joseph Antinone, Weirton, WV

Cum Laude Eric Azoulay, Plainview, NY

Sydney Adrian Ballish, Cincinnati

Bryan Michael Barrett, Cincinnati Cum Laude

with Honors in Integrated Business and Engineering

Morgan Elisabeth Bernard, Cincinnati Maana Cum Laude

Nia Labree Booker, Reynoldsburg Samuel Edward Boughton, Copley Magna Cum Laude

Justin Joseph Brands, Cincinnati James Douglas Brendamour, Cincinnati David William Brower, Cincinnati Brennan Z. Burt, Cincinnati Kevin Fernando Cabrera, Indianapolis, IN Pranav Chaudhary, Columbus Chengzhang Cheng, Wenzhou, China Amy Chiu, Dublin

Magna Cum Laude

with Honors in Integrated Business and Engineering

Christopher John Colesi, Hudson Zachary Cowen, Hilliard

with Honors in Integrated Business and Engineering Garrett Russell Ezman, Liberty Township

Brenna Elainey Fellows, Pittsburgh, PA Magna Cum Laude

Robert Glenn Fetterman, Gibsonia, PA Megan Taylor Garrison, Holland Cum Laude

Carrie Marie Gerding, Kalida Magna Cum Laude

Robert Wilfred Graal, West Chicago, IL Cum Laude

Luke M. Groom, Bexley Nicholas Vernon Grover, Raleigh, NC Cum Laude

Yawen Han, Beijing, China Summa Cum Laude

Alexander William Heer, Columbus Cum Laude

Brock Dalton Hersch, Beachwood Cum Laude

Brian O'Rourke Holcomb, Hudson Tao Tse Huang, Taipei, Taiwan Daniel Alexander Joseph, Hudson Erin Elizabeth Joyce, Hilliard

Ashton Nicole Elizabeth Krueger, Clarkston, MI Cum Laude

Brian Daniel Kurz, Olmsted Falls Magna Cum Laude

Soonhong Kwon, Seoul, Korea Magna Cum Laude

Melanie Jean Larson, Chagrin Falls Ryan John Lawler, Strongsville Colin John Levis, Lakewood

Cum Laude with Honors in Engineering

Emerald Jessie Lu, Union, KY Jesse Marquisee, Edina, MN John D. Martin, Columbus Cum Laude

Hannah Grace Miller, Canton Cum Laude

Kathryn Edith Miller, Canton Cum Laude

Steven James Moliterno, Cincinnati Chase Joel Morgan, West Chester Magna Cum Laude

Maxwell Douglas Novak, Haslett, MI Jordan Paul Page, Dover Isabella Palacio, Medellin, Colombia Cum Laude

Maria Victoria Pandolfi, Naperville, IL Shyam Parikh, Cincinnati

with Honors in Integrated Business and Engineering Mary Morgan Phillips, Milwaukee, WI Daniel Collins Power, Pittsburgh, PA Morgan Elizabeth Reynolds, Springfield Summa Cum Laude

Erin Rinehart, Springfield Sara Elizabeth Robinson, Lebanon Cum Laude

Crisanto Eugenio Sacasa, Miami, FL Christopher Lee Schiefer, Canton John Raymond Schroder, Jr., Cincinnati Summa Cum Laude

Ross David Sercu, West Carrollton Magna Cum Laude

Mili Singh, Dublin Gunnar Christian Smyth, Cincinnati

Thomas Kindler Solarek, Kettering Maana Cum Laude Victoria Miranda Spurling, Lebanon

Dustin Michael Studer, Columbus Cum Laude

Alexander Jaydon Vanek, Richmond Heights Maana Cum Laude

Jacob Jeffrey Walker, Alliance Magna Cum Laude

Justin Allen Watson, Avon Cum Laude

Joel Joseph Weis, Wyoming

Magna Cum Laude with Honors in Integrated Business and Engineering

Jianyao Zhu, Harbin, China Cum Laude

with Honors in Engineering

#### Bachelor of Science in Landscape Architecture (Austin E. Knowlton School of Architecture)

Abigail Victoria Anacki, Akron Magna Cum Laude

with Honors in Landscape Architecture with Honors Research Distinction in Landscape Architecture

Nicholas Robert Armstrong, West Chester

with Honors in Landscape Architecture

Andre Lucas Banerjee, Centerville

with Research Distinction in Landscape Architecture

Zeke Ashley Bolon, Lima Magna Cum Laude

with Honors in Landscape Architecture Nicole Blue Brockwell, Erie, PA

Christopher Anthony Cardinali, Powell Moyan Chen, Beijing, China

Magna Cum Laude with Honors in Landscape Architecture

with Research Distinction in Landscape Architecture

Sally Doyle, Medina

Neil Hoh, Dayton Cum Laude

Amanda Lynn Knight, Sidney, ME

Summa Cum Laude with Honors in Landscape Architecture with Honors Research Distinction in Landscape Δrchitecture

Martin Andrew Koelsch, Elyria

with Honors Research Distinction in Landscape Architecture

Alexandra LaQuey Lemke, Alexandria, VA Cum Laude

with Honors in Landscape Architecture with Honors Research Distinction in Landscape ∆rchitecture

Leah Nicole Mancabelli, Copley Ryan Maddison Pickerill, Loves Park, IL

Cum Laude

with Honors in Landscape Architecture with Honors Research Distinction in Landscape Architecture

Ross Turner Rogers, McKinney, TX Maana Cum Laude

Emily Anne Weber, Bedford, IN Cum Laude

Yutong Wu, Mianyang, China Ziyuan Yang, Beijing, China Cum Laude

with Honors in Landscape Architecture

Clara Yvonne Young, Waynesville Shihan Zhang, Shanghai, China Cum Laude

## Bachelor of Science in **Materials Science and Engineering**

Carl Bruce Ahlborg, Richfield Cum Laude

with Honors Research Distinction in Materials Science and Engineering

Hikari Ally, Wellington, FL Evan Allen Maher Anguish, Pinckney, MI Brennan Patrick Ayers, Pickerington Taylor Lee Bowdish, Tappan Lake Alexander Gaston Branley, Bainbridge Island, WA

lan Briggs, Upper Arlington Daniel Ryan Buergel, Hilliard Cum Laude

Dawei Cai, Guangzhou, China Taylor Ann Ceh, Grafton Cum Laude

James Anthony Ciotola, Akron Michael Martin Coen, Worthington

with Honors in Engineering Colin Christopher Danaher, Old Bridge, NJ Bailey Decker, Jeffersonville, IN Alexander Scott Distel, Findlay Taylor Judith Dittrich, Aurora Summa Cum Laude

with Honors Research Distinction in Materials Science and Fnaineering

Nicholas Andrew Donohue, Beavercreek Sean Matthew Duann, Columbus Cum Laude

with Honors in Engineering

Adam L. Flynn, Toms River, NJ Ann Louise Graff, Cuyahoga Falls Magna Cum Laud

Andrew Christopher Hartnett, Milton, GA Peter Clark Jacobson, Minneapolis, MN Jasmine Renea Jones Cincinnati Shoko Kanemoto, Pittsburgh, PA Ameera Khan, Strongsville Timothy Hayes Link, Granville Leah Hargrave Mills, Columbus Christopher Bradley Morgan, Pickerington Jonathan Scott Morrison, Hilliard

Magna Cum Laude with Honors in Engineering

Ryan Paul Moscarino, Cincinnati Jacob Naft, Chagrin Falls Jordan Jacob Peltier, Middletown Rachel Elizabeth Prv. Enon Linda Kaitlyn Rager, Katy, TX Holly Rose Rhodes, Medina Cum Laude

Nicholas Steven Riedell Mason Elizabeth Ann Riedeman, Napoleon Kelsey Grace Riffle, Granville Rohan Sengupta, Fairfield, CT Lindsay Nicole Shaffer, Acme, PA Cum Laude

Andrew John Shipley, Twinsburg Zachary Tyler Shipley, Chardon Kelsi Elizabeth Spicer, Fremont Anna Elizabeth Stanton, Rocky River Summa Cum Laude

Jocie Lynne Steinke, Bexley Cum Laude

Elizabeth Jean Sturges, Amherst Cum Laude

Taylor Erin Thomas, Columbus Valerie Nicole Thompson, Upper Arlington Cum Laude

Zhe Wang, Beijing, China Cum Laude

Zhenjie Wei, Columbus John David Williams, Columbus Shining Xu, Hangzhou City, China Cum Laude

Sherri Marie Youssef, Mayfield Heights

Maximilian Zernic, Highland Heights

#### Bachelor of Science in Mechanical Engineering

Andrew William Amore, Upper Arlington Cum Laude

Noah Taranto Antoun, Lewis Center Neil Anthony Arana, Centerville Alexander Locke Avila, Santa Ana, CA Emilie Renee Baker, Willshire Cum Laude

Jacob Andrew Barsala, Lebanon Maana Cum Laude

Pierce James Bentivegna, Canton Gavin James Bernard, Dayton Magna Cum Laude

Jonathon Louis Blank, Kent Summa Cum Laude

with Honors Research Distinction in Mechanical

Engineering Paul Antonio Bohorquez Toledo, Caracas, Venezuela

Emma Katherine Boughan, Columbus Grove Benjamin Allen Bradley, Cincinnati Garrison Tyler Brown, Medina

Cum Laude

Kevin E. Brown, Jr., Chicago, IL Aaron Charles Bruch, West Chester Cum Laude

Peter Jeffrey Bruns, Mason Magna Cum Laude

Rvan Christopher Buck, Westerville Matthew Scott Burns, Beavercreek Cum Laude

Declan Patrick Byrne, Bronx, NY Imani-Caleb Michael Caldwell, Columbus Austin Michael Carter, Toledo Michael Joseph Cavoli, Hudson

Maana Cum Laude

with Honors in Integrated Business and Engineering Andrew Joseph Centa, Milan

Robert Gabriel Chafin, Newark Kreteeka Chaudhury, Guwahati, India

Maana Cum Laude with Honors Research Distinction in Mechanical Engineering

Jack Lee Chen, North Canton Summa Cum Laude

Yupeng Cheng, Guilin, China with Honors Research Distinction in Mechanical

Enaineerina Junbin Choi, Gwangju, Korea

Magna Cum Laude with Honors Research Distinction in Mechanical

Enaineerina Addison P. Clopton, Pickerington

Charles Bradford Cummings, Ashville Magna Cum Laude Lisa Anne D'lima, Columbus

Grant William Davis, Avon Lake Magna Cum Laude

with Honors in Integrated Business and Engineering Erik Thomas DeSmidt, Fairfield

Cum Laude

Mitchell Doerzbacher, Wexford, PA Maana Cum Laude

with Honors in Engineering Liang Dong, Wuxi, China

> Cum Laude with Honors Research Distinction in Mechanical

Enaineerina Zhengyang Du, Jinan, China

with Honors Research Distinction in Mechanical Enaineerina

John Kohl Early, Medina Patrick Timothy Ebel, Lebanon Abigail Rose Erwin, Solon Sarah Kimberly Farou, Katy, TX

with Research Distinction in Mechanical Engineering

Frank James Ferrato, Bluffton, SC Maana Cum Laude with Honors Research Distinction in Mechanical Fnaineerina

Jessica Ferree, Beavercreek

Summa Cum Laude

Tyler David Fischer, Milan David John Fraley, North Canton

Gustavo Franzoni Ereno, Curitiba, Brazil Logan Gregory Gable, Ottoville Cum Laude

Evan Richard Gorney, Cincinnati Ilya Gulko, Richmond Heights with Research Distinction in Mechanical Engineering

Thomas Gullo, Powell

Cum Laude with Honors in Engineering

with Honors Research Distinction in Mechanical Enaineerina

Patrick S. Gurtz, Hilliard Anna Marie Hall, Tallmadge Chaz Henry Alexander Hansen, Vermilion Cum Laude

Michael Jon Hansinger, Olmsted Falls Kyle Helfrich, Pataskala

Chase William Hemmelgarn, St. Henry Cum Laude

with Honors in Engineering

Derek Hilfer, North Royalton Joseph David Hillegass, Canal Fulton Maana Cum Laude

Corey Quinn Hissam, West Chester Cum Laude

Brett William Hopkins, Westlake Samuel Duncan Hubert, Akron Jesse Alexander Hudak, Southington Anthony John Huelsman, Minster Summa Cum Laude

Clay Russell Jackson, Hebron, KY . Cum Laude

Andrew Jeffers, Pickerington Cum Laude

Erica Marie Johnson, Spring Grove, IL Magna Cum Laude

Landon Cole Johnson, West Mansfield Maana Cum Laude

Grace Marie Keeton, Cincinnati Tyler Graham Kirk, Cincinnati Rachael Auline Knapp, Dublin Cum Laude

Andrew Eric Koch, Loveland Cum Laude Ryan Anthony Kodramaz, Mentor

Cum Laude

Ross Baratz Krulisky, Scottsdale, AZ Magna Cum Laude with Honors in Engineering

Kanak Shailprabhat Kulkarni, Pune, India Alivia Rose Lahr, Pickerington

with Research Distinction in Mechanical Engineering Anna Glyn Lee, Beavercreek

Magna Cum Laude

Junfeng Li, Hangzhou, China

with Honors in Fnaineerina with Honors Research Distinction in Mechanical

Maana Cum Laude with Honors Research Distinction in Mechanical

Engineering Zihang Li, Chongging, China

Junming Liang, Guangzhou, China

Sean Scott Lincoln, Strongsville Summa Cum Laude

Cum Laude

Michael E. Macsay, Strongsville

Ishan Singh Mann, Chandigarh, India Cum Laude

with Honors Research Distinction in Mechanical Enaineerina

Corey Leonard Marcus, Dublin

Maana Cum Laude with Honors in Engineering with Honors Research Distinction in Mechanical

Kyle Andrew Martin, Hilliard

Enaineerina Cum Laude

with Honors in Engineering

Brendan Robert McAulay, Carmel, IN lan James McIver, Marblehead, MA Cum Laude

Daniel Scott McQuaide, Louisville, KY Magna Cum Laude

Matthew Edward Middlekamp, Cincinnati Jack Edward Moehling, Crystal Lake, IL Michael Carl Mraz, North Royalton Cameron Alan Naulty, West Chester, PA Cum Laude

Ka Hong Ng, Columbus Michael William Nock, Parma Tyler Scott Perry, Granger, IN Magna Cum Laude

Eddie Albert Pfeifer, Bucyrus Daniel Robert Poole, Cincinnati Andrew James Prete, Vermilion Cum Laude

Matthew Aaron Pyles, Dublin David Gregory Quante, Mason Cum Laude

with Honors in Engineering Kyle Michael Rader, Hilliard Jacob Andrew Ramey, Huron Summa Cum Laude

Evan James Ratcliff, New Castle, PA Cum Laude

Morgan Nicole Rauls, Beavercreek Maana Cum Laude

Daniel Joseph Reyes, Brecksville Ryan Allen Richards, Columbus Gannon Scott Ritter, Upper Sandusky Magna Cum Laude

David Edward Roth, Beachwood Holden Winston Ruegger, Westerville Cum Laude

with Honors Research Distinction in Mechanical Engineering

Evan Thomas Saloom, Westerville Jeffrey Michael Saulnier, Arlington, VA Austin Nicholas Scharff, Coral Springs, FL Adam Garrett Schmidt, Kettering

Cum Laude with Honors in Engineering

with Honors Research Distinction in Mechanical Enaineerina

Jackson Patrick Schnaible, Columbus Amanda Marie Schoeffler, Elkhart, IN Dana Lyn Schraitle, Hudson Magna Cum Laude

Aaronn Michael Sergent, Dover Cum Laude

Anthony Siefker, Elida Maana Cum Laude

Jordan David Siegel, Bellmore, NY Bradley Thomas Sievers, Medina Connor Gene Smith, Thornville Maana Cum Laud

Heston Lee Smith, Morgantown, WV Cum Laude

Raghav Sood, Sukhumvit, Thailand Michael Edward Spangler, Centerville

Cameron Joseph Spicer, Loveland Maana Cum Laude

with Honors Research Distinction in Mechanical Engineering

Jacob Alexander Spiegel, Wentzville, MO Summa Cum Laude

with Honors in Engineering Jordan Sprunger, Gahanna

Magna Cum Laude

Adam Fredrick Stevens, Fort Wayne, IN Cum Laude

Caleigh Straub, Hamilton Nicolas Szerszen,

Conflans Sainte Honorine, France Maana Cum Laude

Danny Tan, Richfield

Summa Cum Laude with Honors in Engineering

Clint Edward Teece, Pendleton, NY Summa Cum Laude

Brian Patrick Thurston, Pickerington Kyle Scott Vandeveer, Dublin Jake Anthony Vargo, Washington, PA Mark Stanford Varner, Arlington, VA Mark Anthony Verosky, Elizabeth, PA

Magna Cum Laude with Honors Research Distinction in Mechanical Enaineerina

Dylan Michael Walker, Sebring Kezhuo Wang, Guangzhou, China

Cum Laude with Honors Research Distinction in Mechanical Fnaineerina

Zhe Wang, Hong Kong, Hong Kong Matthew Weaver, Lewis Center

Alexander Thomas Wev. Mason Jacob Michael Wildofsky, Tremont City

Maana Cum Laude Zhexi Wu, Qinhuangdao, China Summa Cum Laude

Ryan Dale Young, Medina Cum Laude

Mingzhe Yu, Tianjin, China Magna Cum Laude

with Honors Research Distinction in Mechanical Enaineerina

Ge Zhu, Beijing, China

with Honors Research Distinction in Mechanical Fnaineerina

#### Bachelor of Science in Welding Engineering

Satchel Charles Alvarez, Whittier, CA Jordan Bailey Beck, Hilliard Stan Michael Blados, Valley View Magna Cum Laude with Research Distinction in Welding Engineering

Logan James Chapman, Mount Gilead Christopher Cotter, Haddonfield, NJ Tyler Douglas Davis, West Lafayette Joseph William Dirr, Cincinnati Daniel Anthony Fishburn, Cincinnati Mark Thomas Flatt, Cincinnati Craig Jacob Galant, Columbus

James Alan Kahan, Jr., Bexley Alvin Denim Kirksey, Sandusky Isaac Patrick Luther, Marysville Katherine Ialine Namola, Columbus Joshua Bradley Reed, Dublin Jacob Michael Roebke, Columbus Grove Martin U. Schneider, Pittsburgh, PA Joseph Michael Studley, Columbus Jonathan Thomas Vaflor, Marion Kristopher Leon Waninger, Dublin

# College of Food, Agricultural, and Environmental Sciences

Dean: Cathann A. Kress

# **Bachelor of Science in Agriculture**

Tabitha Ann Abshire, Woodbridge, VA Amy Lynn Albers, Anna

Magna Cum Laude

with Research Distinction in Animal Sciences Lauryn Renae Allen, Bowling Green Olivia Jean Allison, Columbus Benjamin Randal Applegate, Lewis Center

Benjamin Randal Applegate, Lewis C Lauren Alexis Baldic, Gahanna Christine Nicole Balint, Huron

Luke Joseph Baugess, Canal Winchester

Emily Nell Bauman, Otway

Andrew David Baus, Deshler
Katherine Marie Bell, Liberty Center
Tricia Linn Bellman, Bluffton
Trey Alexander Belzer, Canton
Dawn Michelle Berry, East Rochester
Elizabeth Kelsey Bormuth, East Rochester
Patton Wilder Boughan, Columbus Grove
Shelby Lee Bradford, Sunbury
Jacqualine Leigh Brandal, Bellevue
Matthew Lee Brookbank, Hilliard
Christopher Kelse Brown, Edgerton
Magan Cun Loude

Daesha Joan Monae Brown, Akron Grant Randall Brown, Laura Kaci Lori Bryant, Vinton Kees Thomas Burklow, Mason Elliot Callow, Ohio City Blake Frederick Campbell, Waterford Jaclyn Marie Camus, Venetia, PA Cum Loude

Allison L. Carpenter, Caldwell
Magna Cum Laude

Nathan Lilburn Carroll, Collins Meghan Kathryn Chaffee, Sycamore Robert Lee Chandler, Columbus Elizabeth Renee Charvat, Westlake Mariah Danielle Cherubini, Columbus Danielle Julia Chorba, McKees Rocks, PA Paige Caitlin Cisco, Waverly Leah Michelle Clements, Columbus Molly Christine Cleveland, Green Springs

Magna Cum Laude
Justin Charles Clifford, Sunbury
Haley Elizabeth Clinker, Columbus
Mikenzi Kae Coffer, Brunswick
Christina Marie Coler. Canfield

Trent Nicholas Congrove, Circleville Jacob Michael Cook, Houston Miranda Rae Cook, Massillon Emilee Lynn Copple, Columbus Grant Michael Cory, Frankfort

\*Caroline Grace Rose Cotter, Strongsville

John Clayton Craft, St. Marys Summa Cum Laude

Samantha Hope Cudney, Dayton Stephanie Lee Dampney, Dayton Cum Laude

Grace Elizabeth Dannemiller, Pickerington
Magna Cum Laude

Josephine Louise Darr, Delaware Taylor Marie Davis, Hillsboro Katelyn Rachael Ashlee Deaton, Eaton Magna Cum Laude

Amber N. Dietz, Southington Karlii diGrazia, Columbus Mikaela Pilar Disbennett, Croton

Magno Cum Laude
Trent Christian Dues, Fort Recovery
Lindsey Michelle Dunham, Northfield
Cassidy Elizabeth Elam, New Holland
Anwar M. Elkhatib, Westlake
Nicholas William Erf, Bellevue

Walker Adam Fackler, Shelby Lindsay Ann Fager, Wauseon Cum Laude

David Frederick Farrell, Jr., Hudson Carolina Fernandez, Columbus Grant Edmund Fisher, Powell Heath T. Fleshman, Galloway Lydia R. Flores, Milford Center Sydney Folzenlogen, Loveland Grant Edward Ford, Findlay

Magna Cum Laude

Nicholas Layman Fowler, Salesville Marissa Elisabeth Friel, Kettering Katie Lynn Frost, Bloomingburg Magna Cum Laude

Nicholas S. Fuentes, Newark Brooklyn Kay Furrow, Springfield Megan Elaine Garber, Hopewell

Julia Annette Garleb, Pickerington Magna Cum Laude

Rachel Lynn Garrison, Mount Sterling Aaron David Gates, Monroeville Ian Tyler Gilt, Millersburg Kevin Joseph Girard, Lakewood Ryan Stanley Goddard, Urbana Magna Cum Laude

Elisa Kay Goebel, Columbus Billy Daniel Grayless, Russellville Vaughn Eric Green, Johnstown Hannah Katherine Greene, Worthington Katelyn Jeanette Grieshop, Fort Recovery Andrew James Grusenmeyer, Tipp City James Michael Grusenmeyer, Tipp City Zhenzong Gu, Suzhou, China Brianna Alvssa Gwirtz, Shelby

Summa Cum Laude
with Research Distinction in Aggregatural Communication

Dieter Charles Haas, Silver Lake Emilee Marie Haertel, Columbus Kristina Marie Hallof, Canfield Erin Elizabeth Hamlin, Fairport, NY Summa Cum Laude

\*awarded posthumously

Katrina Lynn Harper, Caldwell Cum Laude

Jasmine Alexandra Hart, Centerville Scott Andrew Havard, Fremont, CA Lindsay Elizabeth Hayward, Delaware Logan R. Heiby, Celina

Cum Laude

Robert James Heins, Columbus Vianca Natalia Hernandez Rosado, Powell Aleisha Ann Hesse, Spencerville Leah Michele Hetrick, Pemberville Matthew John Hiser, Jamestown Kami Rachelle Hisey, Johnstown Andrew Hazard Holden, Pierpont Monan Cum I aude

Magna Cum Laude Emily Joan Hookway, Hudson Mallory N. Hope, Delaware Piper Madisyn Hopple, Clyde Alexandra Lee Houck, Oregonia Erik Justus Hull, Howard Dermot Andrew Hutchinson, Marysville

Magna Cum Laude Joshua William Isaacson, Bowling Green Hannah Lynn Jarvis, Homeworth

Cum Laude

Ellen Rene Johns, Millbury Dakota Micheal Jones, New London Austin Robert Jorns, Traverse City, MI Joshua Samuel Kammer, Solon Austin Dean Karbler, Lewis Center

Magna Cum Laude
Anthony Ray Keeton, Columbus
lan Jackson Keller, Plain City
Kara Anne Kerstetter, Worthington
Brian R. Ketring, Camden
Nathaniel Paul Kinney, Shreve
Johnathen Fredrick Kirby, Bellefontaine
Chandler Roger Kisiel, New Albany

Magna Cum Laude Taylor Lauren Klass, Columbus Summa Cum Laude

with Honors Research Distinction in Animal Sciences

Bennett Oliver Klosterman, Coldwater Kayla Marie Konczos, Parma Magna Cum Laude

Jaclyn Elizabeth Krymowski, Homerville Madison Lynn Lambkin, Columbus

Sarah Ann Landis, Farmersville Cum Laude

with Research Distinction in Agriscience Education Victoria Elizabeth Lang, Radnor

Cum Laude
Aislinn Leigh Latham, Thurmont, MD
Summa Cum Laude

with Honors Research Distinction in Animal Sciences
Cody Paul Laux, Dublin
David Alexander Lee, Gaithersburg, MD
Garrett Eugene Leeds, Milford Center
Isaac Robert Leeds, Ostrander
Chloe Olivia Leonard, Powell

Magna Cum Laude
Louis Andrew Liming, Mineral Ridge
Landon Adam Lindemer, West Liberty
Magna Cum Laude

Nicole Morgan Lorig, Brunswick Kathryn Julia Losnes, Edgewater, FL Emily Kathryn Luc, Fremont Kelsie Anne Macklin, Lima Alyssa Rose Malinowski, Elyria Mogno Cum Laude

Maria Grace Marano, Flushing

Alice Rose Martin, Galloway Cody Andrew Mastnardo, Medina Caleb Isaac Mathias, Logan

with Research Distinction in Plant Pathology Nicole Adrienne Maust, North Olmsted Guy Thomas Mayhew, Columbus ZhuJun Kylee Mayton, Lewiston, ID Bailee Jane Mazzaro, Williamsfield Caitlyn Rachelle McCaulley, Canton

Rachel Elizabeth McClellan, Xenia Summa Cum Laude

Magna Cum Laude

Amber Nicole McGraw, Marysville Rachel Elizabeth McLaughlin, Springfield Cum Laude

with Honors Research Distinction in Entomology

Andrew William McMullen, Lancaster Annie Jane Means, Galloway Hannah Grace Meller, Wauseon Matthew Edwin Merritt, Lewis Center Magna Cum Laude

Mason E. Metcalf, New Bloomington Caroline Ellen Miller, Lindsey Jared Andrew Miller, Marion Todd Roy Miller, Delta

Magna Cum Laude

Brendan Anthony Millich, Martville, NY Maxwell Vincent Monahan, New Albany Madison Taylor Montgomery, Mineral City

Cum Laude with Honors Research Distinction in Animal Sciences

Margaret Rose Moodispaw, Wooster with Research Distinction in Plant Pathology Kelvin Antoine Moore, Columbus

Nicholas Andrew Moore, Lima
Ashley Renee Petry Morgan, Mount Gilead

Cum Laude

Nathaniel Wollam Morris, Worthington Mackenzie Rae Moyer, Tiffin Amanda Erin Muldoon, Maineville Nolan Alex Neyer, Hilliard Brent Harrison Nicol, Marysville Frances Clara Nicol, Plain City Mono Cum Loude

with Research Distinction in Agriscience Education

Kyle James Norman, Bellevue Samantha Rose Norman, Wauseon Geoffrey Dale Norris, Wooster Courtney JoAnn O'Mara, Columbus Adaora Okpa, Rancho Palos Verdes, CA Adrianna Maria Ondayko, Warsaw Junjun Pan, Quanzhou, China Michael Alan Pauley, Bellville Kristy Lee Payne, Waterford Sarah Nicole Peffley, Englewood \*Nic Max Petrykowski, Pataskala Anisha Girish Prabhu, Bangalore, India Cum Loude

Alexander Christian Pratt, Worthington Michaela Rose Price, Wellington

Tyler Allen Puckrin, Amherst
Magna Cum Laude

Kristen Nicole Ramey, Dayton Magna Cum Laude

Candice Marie Rathburn, Delaware Cassie Jo Reed, Vincent Cole Robert Riddle, Marysville Summa Cum Laude

Felicia Analise Rocco, Parma

\*awarded posthumously

Audrey Darves Rollins, Columbus Magna Cum Laude

Lindsey Marie Roncone, Columbiana Julia Elizabeth Rose, Coldwater Summa Cum Laude

Claire Sylvia Rosenbaum, Gaithersburg, MD Magna Cum Laude

Kaitlyn Nicole Santinoceto, Shadyside Brenna Nicole Scheiderer Milford center Loren Elizabeth Schmidt, Minster

Allison Lynn Schroeder, Port Clinton Luke William Schumann, Lebanon Madeline May Schwarz, Fort Mitchell, KY Natalie Jean Secrest, Westerville Danielle Nicole Seitner, Farmersville Grant M. Shaffer, Lewis Center Breanna Marie Sharp, Liberty Center Katerina M. Sharp, Stoutsville Randi Rena Shaw, Somerset

Haley Catherine Sherman, Kenton Magna Cum Laude

Summa Cum Laude

Dalton Michael Shipley, London Cameron Myles Shirer, Elmore Jessica Leigh Shrake, Westerville Hannah Frances Smith, Uniontown Lauren Elizabeth Sommers, Pleasantville Maana Cum Laude

with Research Distinction in Δnimal Sciences

Elizabeth Hannah Spahr, Milton, FL Zachary Henry Sperling, Canal Winchester Mary Elizabeth Sprang, Big Prairie Magna Cum Laude

Emily Diane Starlin, Logan Whitney Alexis Stear, New Waterford Mariah K. Stollar, Marietta

Summa Cum Laude

with Research Distinction in Community Leadership Marina Katherine Sweet, London

Maana Cum Laude with Research Distinction in Animal Sciences

Mandy Marie Taylor, Millersburg

Zachary Michael Temple, Mansfield Robert Anthony Thiel, Morral Cum Laude

Jared Reed Thomas, Plain City Lauren Josephine Thomas, Loveland Chase Michael Thut, Orrville Tanner Bruce Topp, New Bremen Khiara Shea Tracy-Burkhart, Barnesville

Cum Laude Jaime Elizabeth Uren, Dexter, MI Summa Cum Laude

with Honors Research Distinction in Animal Sciences

Clayton Jon Vawter, Hilliard Ryan Lee Vonderhaar, Camden Moriah Brenan Vosteen, Steubenville Bailey Nicole Wagner, Mount Victory Nora Ellen Waldrop, West Chester Collin Todd Watson, Cable Janelle Christine Watson, Bellevue Jesse Douglas Weidner, Dayton Jonathan William Weihl, Bowling Green Jade Elizabeth Werner, Bellevue Mitchell Alexander Whalen, Painesville Jessica Anne Wheeler, Canal Winchester Halle E. White, Chillicothe Jessica Suzan White, Lower Salem Victoria Dawn White, Ashland

Jacob Harrison Widman Tiffin Kaitlyn Margaret Wiley, Hicksville Wesley David Wingert, Bucyrus Maana Cum Laude

Michelle Kathryn Wintzinger, Milford Allison Elizabeth Wirt, Columbus

Cum Laude

Taylor Nicole Wise, East Liverpool Zachary Robert Wiseman, New Lexington Katherine Marie Wolfe, Louisville Stephanie Marie Wuebben, Xenia Christopher Yackee, Wauseon Xiaojing Zhang, Yantai City, China Zhenning Zhang, Beijing, China Travis Barrett Zimmerman, Tiffin Tyler Lawerence Zimmerman, Defiance

#### Bachelor of Science in **Construction Systems Management**

Rami Ibrhim Aboomar, Worthington David Allen Ault, Newark Alexander Vincent Belluccia, Woodmere, NY Magna Cum Laude

Dalton Douglas Boetcher, Roseville Kevin Richard Bressler, Sandusky Clark Donald Brewer, St.Louisville Molly Siobhan Coen, Columbus Todd Patrick Crutchfield, Jr., Columbus Ryan David Dennis, Fairfield Rachel L. Doria, Hilliard Brady Cameron Frakowski, St. Clairsville Trent William Grassbaugh, Glenmont Kevin Matthew Hackett, Westerville Trey Thomas Hafer, Vandalia Alex Charles Harris, Medina Cum Laude

Jake Anthony Jezerski, Solon Chad Eric Joice, Columbus Nicholas William Kay, Berea Quinlan John Leslie, Waverly Joshua Daniel Lewis, Oak Hill Matthew C. Mayo, Pickerington Magna Cum Laude

Mark Alan McInerney, Columbus Adam Richard Metzger, Dalton Clark Grace Moran, Thornville Zachary Alan Novak, Painesville Daniel J. Pettola, Hubbard Ryan Patrick Reilly, Columbus Blake Phalen Riley-Hawkins, Columbus Dominic Joseph Robson, Pickerington Michael Alan Rosebrock, Ottawa James Peter Salzler, Plain City Cody Allan Sarisky, Westerville Kelsey Dana Schultz, Powell Christopher Michael Smith, Mahwah, NJ Neale Elizabeth Snyder, Columbus

Cum Laude Brandon Dean Sowers, Logan Jeffrey Hallen Starr, Skokie, IL Jeffrey Thomas Steele, Loveland

Maana Cum Laude

Glen Oris Tipton, Pickerington Steven Edwin Tremper, New Richmond Austin James Veach, Delaware Brennan James Welcome, Mount Vernon Brian Ross Wygonski, Brecksville Dalton Michael Zemba, Zanesville

#### **Bachelor of Science in Food Science**

Bryan N. Edwards, Akron Alexandria Lee Hall, Marysville Siti Fatimah Binti Khairuddin, Ipoh, Malaysia Cum Laude

with Research Distinction in Food Science and Technology

Kaitlin Rose Lammers, Ottawa Yutong Li, Ningbo, China

Magna Cum Laude Megan Lu, Fairborn

Magna Cum Laude with Honors Research Distinction in Food Science and Technology

Haley Lynn Orwig, Geneva, IL

Cum Laude with Research Distinction in Food Science and Technology

Julie Ann Patton, Denver, CO Ryota Sakamoto, Utsunomiya, Japan Anna Marie Schmenk, Leipsic

Summa Cum Laude

with Research Distinction in Food Science and Technology

John Michael Shirk, Jr., Highland Heights Daniel Lee Sosh, Columbus Summa Cum Laude

with Honors Research Distinction in Food Science and Technology

Margaret Anne Stegman, Wheelersburg with Research Distinction in Food Science and Technology

Olivia Grace Thompson, Wadsworth Cum Laude

Karli Rose Van Simaeys, Sylvania with Research Distinction in Food Science and Technology

Dawei Wang, Brooklyn, NY

# **Bachelor of Science in Nutrition**

Clayton Ross Baughman, Utica John Anthony Bouranis, Rochester, MI Magna Cum Laude

with Honors Research Distinction in Animal Sciences - Nutrition

Michael Brandt Loveless, Springboro Maana Cum Laude

with Honors Research Distinction in Animal Sciences - Nutrition

#### **Dairy Certificate**

Dawn Michelle Berry, East Rochester Alexandra Lee Houck, Oregonia Chase Michael Thut, Orrville

# School of Environment and **Natural Resources**

## Bachelor of Science in **Environment and Natural Resources**

Kelly Christina Ahearne, Colorado Springs, CO Summa Cum Laude Andie Altchiler, Fairfield, CT

Zachary Michael Ames, Ashland Cum Laude

Ethan Fulton Anderson, Elyria Maana Cum Laude

Ashlee M. Balcerzak, Maumee

Cum Laude

with Honors Research Distinction in Environmental Science

Stella Camille Barnes, Columbus Casey Elizabeth Beam, Upper Arlington Leslie M. Beauchamp, Massillon Magna Cum Laude

Linnea Kristina Beighley, Granville Nicole Christine Bregel, Centerburg Spencer Brindley, Newtown, CT Kathryn Marie Brown, Cincinnati

Maana Cum Laude

with Honors Research Distinction in Environmental Science

Erika Bruce, La Plata, MD Cum Laude

Gemma Claire Bush, Columbus Cum Laude

Gravson Lee Cahal, Spencer

Cum Laude Kaitlin Renee Carr, Ashland

Cum Laude

with Research Distinction in Forestry, Fisheries and Wildlife

Olivia Rachel Carros, Manassas Park, VA Magna Cum Laude

with Honors Research Distinction in Environmental Policy and Decision Makina

Sophie Chang, Plainsboro, NJ Cum Laude

with Honors Research Distinction in Environment,

Economy, Development and Sustainability Timothy M. Cho, Johns Creek, GA

Alana Marie Chronister, East Liverpool Cassandra Marie Clifford, Medina Summa Cum Laude

David John Cornet, Jr., Canton Hunter Frederick Crates, Granville Haley Noel Crookston, Brunswick Adam FitzGerald Cupito, Loveland

with Research Distinction in Forestry Fisheries and Wildlife

Christopher Steven Davis, Beavercreek Nicholas Erick Davis, West Liberty Sarah Nicole Davis, Dublin Magna Cum Laude

Bailey Delacruz, La Plata, MD Cum Laude

Allison Elizabeth DeLong, Chillicothe

Samuel Jacob DeWitt, Annapolis, MD Molly Margaret Disbrow, Avon Lake Alec Edward Dumbauld, East Palestine Makenna Suzanne Dunlap, Granville Kyle Wayne Fairburn, Newark Kalie Elizabeth Fallon, Naperville, IL Maana Cum Laude

Grace Marie Fischer, Lewis Center Magna Cum Laude

Sarah Ann Fischer, Madeira Summa Cum Laude

Alec James Fries, Chicago, IL Victoria Fuentes, Hoffman Estates

Christopher D. Gates, Tiffin Scott Alexander Gilmore, Worthington Madeline Sarah Goebel, Wooster Magna Cum Laude

Christopher James Goergen, Chardon Jessica Anne Gould, Kettering Nicholas Andrew Gulish, Oberlin Max Steven Helden, Beachwood

Cum Laude

Matthew Alan Henderson, Perrysburg Devin Weslee Hendricks, Alvada

Maana Cum Laude

Jacob Alexander Heslop, Stone Creek Daniel Joseph Hiatt, Brookville Zachary Michael Horn, Gahanna Cum Laude

Megan Elizabeth Howard, Independence Daniel Joseph Hribar, Euclid Magna Cum Laude

Anne Moore Jachthuber, Atlanta, GA Hadley Nicole Jaeger, Centerville Kristin Elizabeth Keaton, Plymouth Maxwell Scott Kirschner, Boca Raton, FL Thomas Ryan Lawrence, Troy Caroline A. Lawton, Hudson

Casey Lenfest, Granville Magna Cum Laude

Lu Li, Beijing, China Magna Cum Laude

Kiley May Lutes, Lima Olivia Christine Maltry, Cincinnati Kelly Ann McCurry, Branchburg, NJ Magna Cum Laude

Rachel Ellen McDevitt, North Canton Sarah Miles, Hudson Summa Cum Laude

Madeline Marie Mischler, Columbus John Morgan-Ring, Winter Garden, FL Rachel Marie Morris, Louisville Bridgette Ann Mueller, Trenton Madeline R. Mutch, Bay Village Mann Cum Laude

Scott Atticus Nelson, Hinsdale, IL Enrique Alberto Ng zheng, Columbus Daniel Andrew Niemann, Dublin Charles Thomas Parise, Columbus Cum Lunde

Caleb Lee Peters, Akron
Taylor Jo Phillips, New Philadelphia

Cum Laude

Krystal Lynn Pocock, Bellevue

Cum Laude

with Honors Research Distinction in Environmental Science

Jerome Timothy Porter, Jr., Dayton Na'Imah Alisha Rawls, Mansfield Allison Marie Renick, Canton Jackie Marie Reusser, Navarre Cum Laude

Celena Marie Ritchey, Cleveland Heights Alexander Lee Roahrig, Sr., Newark Anthony Newman Rocco, Powell Victoria Ann Roland, Sheffield Lake

Emily Elizabeth Romain, Perrysburg Leyna Rae Rosen, Dix Hills, NY Alicia Marie Russo, Lakewood Grace Elizabeth Saalman, Upper Arlington Magna Cum Laude

with Honors Research Distinction in Environmental

Leticia Sandoval, Northwood

Connor Stephen Santee, Lake Forest, Illinois Hannah Mackenzie Sargel, Westerville Cum Laude

Karen Alexandria Schaffer, LaGrange Erik Peter Schommer, Jefferson Township, PA

Mara Catherine Sheley, Dublin Alexander Patrick Sherlock, Cincinnati Brieana Marie Shook, Pickerington Holden David Slagel, Columbus Halle Danae Smith, Grove City Jared Storm, Whitehall

Magna Cum Laude Helen Katherine Sudhoff, Fairfax County, VA

Dusten Trace Swayne, Milford Vincent Anthony Tata, Powell Andrew Michael Tillotson, Avon Lake Summa Cum Laude

Ethan Michael Tolpin, Jericho Nicholas James Tripodi, Jefferson Alysas Marie Ursem, Twinsburg Stanley C. Vinning, Newark Amy Wald, Columbus Victoria Lynn Wallace, New Albany Brett William Warrick-Schkolnik, Westerville

Douglas William Wensink, Millbury Amanda Nicole Wilkinson, Dayton Mikhail Yakhnitskiy, Galloway

Shenyu Zhang, China

Cum Laude

# Agricultural Technical Institute - Wooster

# **Associate in Applied Science**

Allison Rose Adams, Cutler Derek Allen Barker, Edison Bryer Allan Berger, Clinton Cordell William Bergert, Alliance Heather Jolynn Bishop, Findlay Shavon Gabrielle Lynn Bowersock, Ashland Travis Lee Brand, Toronto Gregory Allan Briggs, Seville Samantha Lane Bronson, New Vienna Zebulon Montgomery Burton, North Fairfield Cum Loude

Shawna Nicole Clark, Sullivan Cole Allen Courtney, Salem Kyle William Daugherty, Fresno

Cum Laude

Christina Lynn Davis, New Franklin Magna Cum Laude

Shelby Nicole Davis, Wapakoneta Kamm Michael Deviney, Wooster Marcella Rosemary Dragolich, Huntsburg Magna Cum Laude

Arron Scott Early, Delaware
Harley John Ehrman, Steubenville
Hexa Elaine Eisenbrown, Medina
Charles Andrew Erlenbach, Avon
Sarah Elizabeth Fulling, Ashland
Hunter James Hall, Kinsman
Cotton A. Hess, Sheffield Lake
Tricia Kay Hoover, Alliance
Nathaniel Grey Leland, Cardington
Natalie Daniele Liskai, Woodville

Alexsis Irene Longden, Mansfield Sean Richard Looby, West Jefferson Bethany Ann Lortcher, Willard Ross Joseph Mangas, Leipsic Jessica Renee Millenbaugh, Crestline Ryan Michael Miller, Columbus Andrew Victor Mondello, Highland Heights Emily Taylor Oldham, Troy Andrew Evan Potter, Jr., Sylvania Romolo Giuseppe Rabasi, Newbury Grant C. Ratliff, Greenfield Tyler Ronald Reinecke, Hinckley Michael Adam Salomone, Parma Austin James Schroeder, Ottawa Dalton Michael Shipley, London Matthew Sutter, Crestline Joseph John Taylor, Napoleon Hallie Ann Thompson, Plymouth Emma Marie Trapp, Augusta, MI Holly Joy Van Keuren, Wooster Maana Cum Laude

Dalton Joseph Walls, Grand Rapids Jacob Steven Wayt, Edison Samuel Wallace Welch, Ashville

#### Associate of Science

Monique Renee Adam, Howard Kaci Rae Ager, Gallipolis

Summa Cum Loude

Hannah Rose Albers, Anna
Joshua Brent Amert, Upper Sandusky
Michael Robert Anadell, Jr., Amherst
Joshua David Anderson, Wooster
Mara Anderson, Canton
Sarah Elizabeth Baird, Canfield
Courtney Maclay Baker, Big Prairie
Summa Cum Loude

Madison McKenzie Baker, Big Prairie
Summa Cum Laude

Sarah Ellen Ball, Findlay Amanda R. Barnum, Kingsville Cody Alan Beale, Marysville

Cum Loude
Frank Daniel Becker, Smithville
Allison Rose Bench, Genoa
Zachary Jon Berry, West Salem
Abigail Lynn Bonnot, Canal Fulton
Elizabeth Joan Boss, Burbank
Rosa Marie Bowen, Custar
Kadie Burger, Minerva
Alison Marie Butler, Vermillion
Andrew Scott Davis, Wilmington
Cum Loude

Austin James Davis, Richwood Matthew Ryan Dawes, Lakewood Amber N. Dietz, Southington Amanda Louise Dreier, Galloway Chandler Wayne Dudte, Wooster Cum Laude

Hannah M. Dye, Beloit Kelsea Leigh Ebie, Mogadore Devan Paige Eckert, Stockport Tyler Thomas Elliott, Jackson Kayla Marie Erickson, Beallsville Jesseca Marie Fantauzzi, Willard Alyxandra Angel Flott, Waynesburg Hanna Lyn Fosbrink, New Vienna Rachel Lynn Garrison, Mount Sterling Aaron David Gates, Monroeville Tyler Ellis Gentry, Trenton John Andrew Gilson, Wooster Cum Laude

Melanie Nicole Gott, Wellington Bailee Nichole Griffeth, Carrollton Nicholas Andrew Hamilton, Richwood Matthew Alexander Haught, Canton

Madison Rylee Herd, Orient Dylan Lee Horner, Seville Leland Reed Hostetler, New Philadelphia Courtney Ann Hovest, Ottawa Cum Lyune

Luke Jeffrey Hrubik, Ravenna Erik Justus Hull, Howard Kortney Lee Jackson, Wooster Summa Cum Laude

Kayla Lachelle Jacobs, Wooster Jason Kelly Jenkins, Glenmont Garrett James Kanya, Orrville Alaina Elizabeth Kessler, Delta Morgan Tyler Kessler, Ostrander Ashley Nicole Kieffer, Dalton Noah Emory Klenovich, Wooster Summo Cum Loude

Camille Caitlyn Klick, Massillon
Sjoerdje Annie Wietske Rianne Kruiter, Forest
Bernard Theodore Kuether, Covington

Summa Cum Laude Hailey Kunath, Grafton

Magna Cum Laude
Nicholas Royce LaRue, Oregon
Cum Laude

Hannah Marie Lucic, Chardon Courtney Marie Lund, Norwalk Taylor Lois Lutz, Bucyrus Andrew Charles Mackie, New Knoxville Kollin Jeffrey Martin, Defiance Cody James McClain, Nevada Summa Cum Laude

Tammy Renee McComis, Delaware
Brooke Logan McMullin, South Point
Ashton Sierra Meloche, Mansfield
Martin Manson McKenzie Merrick, Minerva
Sharlene Rae Miller, Loudonville
Maria Anne Minocchi, Dover
Eric Daniel Moore, Painesville
Mariah Renee Morris, Columbus
Carley Jean Muehlfeld, Edon
Abigail Marie Myers, Bolivar
Geofffrey Dale Norris, Wooster
Matthew Grant Nussbaum, Orrville

Andrew John Owens II, Thurman Austin Michael Phillips, Fredericktown William Albert Ray, Cumberland Cassie Jo Reed, Vincent Lance Riedlinger, Nevada Cum Loude

Taylor Nichole Romine, Mount Sterling Justin Donald Rose, Conover Magna Cum Laude

Branne Bradley Rush, West Salem James Peter Salzler, Plain City Colin Michael Sandrock, Elmore

Cum Laude

Rachel Renee Sarnes, Oak Harbor Tailer Kay Schmuki, Navarre Jennifer Erin Scott, Millersburg Adam Jeffrey Shawhan, South Charleston Rachael Ann Slone, South Webster Hannah Frances Smith, Uniontown Treg Mathis Snowden, Wayne

Cody Wyatt Sollars, Utica Alison Sprang, Lakeville Cum Laude

Andraya Kathryn Starr, Dover Alec Lynn Stillberger, Sycamore Nicole Elizabeth Strouse, Millersburg Felecia Marie Sutton, North Canton Cole Martin Tebbe, Russia Theresa Tomczyk, Huron Magna Cum Loude

Logan John Trbovich, Waynesburg Rene' Sue Vent, Upper Sandusky

Claire Elizabeth Vilagi, South Amherst Samantha Jo Walter, Mount Blanchard Jeran Frederick Ward, Morral Alan J. Warner, Arcanum Kalli Tess Weber, Chardon Jonathan William Weihl, Bowling Green Adam Thomas Widman, Bucyrus Andrew Cy Wilson, East Palestine McKayla Rae Wilson, London Kierstyn Faye Wood, Wooster Savannah Loraine Wourms, St. Henry Jenna Maxine Wyler, Fresno Daniel A Yoder, Millersburg

# Certificate in Hydraulic Service and Repair

Hunter James Hall, Kinsman Dalton Joseph Walls, Grand Rapids Jacob Alexander Walts, Amherst

# Michael E. Moritz College of Law

Dean: Alan C. Michaels

# Juris Doctor

Devona Adjei-Baafuor, Whitehall B.A. (State University of New York at Albany)

Ryan N. Agee, Middletown B.A. (Miami University)

Bishr Ajlouni, Akron
B.Laws, M.Laws (University of Damascus)

Cum Laude

Shahed Al-asadi, Charleston, WV B.A.Jour.

Anthony G. Alfano, Lowellville B.S. (Youngstown State University)

Andrew Joseph Allman, Maumee B.A. (Bowling Green State University)

Nora M. Anderson, Columbus B.A. (Ohio Wesleyan University)

Rachel Marie Armstrong, West Chester B.A.

Magna Cum Laude

Josef J. Asfoura, Columbus B.A. (University of Pittsburgh)

Evin Zane Bachelor, Celina R A

Hannah Jayne Barlow, Columbus B.A. (Pennsylvania State University)

Cory Nikolas Barnes, Pittsburgh, PA B.A. Magna Cum Laude

 $\label{eq:anton-bound} \mbox{Kathryn Elaine Bartolomucci, Canton B.A.}$ 

Cum Laude

Madison Berry, Springfield B.A. (Miami University)

Walter Charles Blackham, Aurora B A

Mary C. Bockstahler, Columbus B.A. (University of Cincinnati)

Annamarie Elizabeth Braga, Canfield B.A. (John Carroll University)

Natalie Patricia Bryans, Cincinnati B.A.

Clair Elise Bullock, Cincinnati B.S.Env.Nat.Res.

John David Bullock, Columbus B.A. (University of Dayton)

John Hanlon Burnside, Columbus B.A. (Indiana University)

Katherine Marie Butya, Coraopolis, PA B.S.Bus.Adm.

Alison M. Buzzard, Columbus B.A. (Allegheny College)

Michael P. Cavanaugh, Bowling Green B.A. (Miami University)

Jenny Chien, Columbus B.A. (University of California)

Abigail Fuhng Chin, Columbus B.A. (University of Louisville)

Gabrielle Marguerite Colavecchio, Cuyahoga Falls B.A. (Boston College) Summa Cum Laude

Daniel L. Colston, Columbus B.A. (University of Notre Dame)

Tyler J. Compton, Granville B.A. (Otterbein University)

Kevin Michael Cripe, Dublin B.S. (University of Dayton)

Mary Elizabeth Csarny, Solon B.S.

Davide V. Cugini, Columbus B S Rus Adm

Eva S. Cuollo, Twinsburg
B.A. (Case Western Reserve University)

Daniella Samantha D'souza, Dayton R A

Margaret M. Dengler, New Albany B.A. (Columbia University) Summa Cum Laude

Sarah Diab, Columbus

Gregory R. Dick, Mason B.A. (Miami University)

Cristina Nicole Dickos, Akron R A

Robert R. Doersam, Pickerington B.A. (Ohio Wesleyan University)

Kyle Thomas Downie, Dublin R A

Caitlin G. Duckworth, Louisville B.A. (Miami University)

Brian Patrick Dunlay, Maineville B.A.

Haily Ly Duong, Westerville B.A. (Capital University)

Quinn Bailey Dybdahl, Westerville B.S.Humn.Ecol.

Megan L. Ebenschweiger, Columbus B.Bus.Adm. (University of Louisville)

Sarah Victoria Edwards, Cumberland B.A.

Jon C. Egelhoff, West Chester

Alexander Robert Ehrenschwender, Cincinnati B.A. (Centre College)

Eliana A. Elizalde, Columbus B.A. (University of Texas)

Rachel L. Elwood, Heath B.A. (Northwestern University)

Paxton D. Endres, Columbus B.A. (University of Arizona)

Cum Laude

James T. Fetter, Columbus B.A. (Emory University) Ph.D. (University of Notre Dame)

Matthew C. Finston, Columbus
B.A. (New York University)
M.A. (City College of the City University of
New York)

Carlos S. Flores, Columbus B.A. (University of California)

Samuel Benedict Fogle, Jr., Fairfield B.A.

Savannah M. Fox, Massillon B.A. (Wittenberg University)

Andrew L. Francus, Akron B.S.Bus.Adm.

Ali Sahin Frohlich, Columbus B.A. (University of South Florida)

Christopher Joseph Gawronski, Columbus B.A. (University of Toledo) M.A. (University of British Columbia) Magna Cum Laude

Mark J. Gayetsky, Poland B.S. (Duquesne University) Cum Laude

Christian Michael George, Columbus B.A. (Sonoma State University)

Chloe Alexandra Goodlive, Columbus B.A.

Michael Grant Grissom, Benton, KY B.A. (Murray State University)

Megan A. Hammond, Yellow Springs B.A. (University of Dayton)

Eugenia Han, Miamisburg

Elaine V. Hanson, Westlake B.A. (Hillsdale College)

Jennifer Renee Harmon, Mansfield B.S.Bus.Adm.

Stacey N. Hauff, Berea B.A. (Earlham College)

Mohamad Kamal Haykal, Columbus B.A., B.S.

Benjamin T. Hemmelgarn, Columbus R S

Jennifer L. Hengst, Mentor B.A. (University of Pittsburgh)

Scott A. Herkamp, Cincinnati B.A. (Clemson University) Cum Laude Sally D. Heuker, Mason B.A. (University of Cincinnati)

Elizabeth M. Hodder, Columbus R  $\Delta$ 

Andrew James Hopkins, Chagrin Falls B.S. (Westminster College)

Alexander J. Hurtuk, Chagrin Falls B.A. (Allegheny College)

William M. Irvine, Houston, TX B.A. (Rice University)

Tisha Mergitta James, Columbus B.A. (University of Central Florida)

Allie S. Johnston, Massillon B.A. (University of Mount Union)

Katherine Ruth Johnston, Hilliard R A

Cary P. Jones, Columbus B.A. (Dalhousie University)

Sungtaek Jun, Columbus Bachelor's (Chongshin University)

Alexander C. Karcher, Toledo B.A. (Carthage College)

Courtney S. Kasuboski, Chagrin Falls B.S.Ind.Sys.Eng.

M.S. (Fordham University)

Allison Shannon Kelly, Columbus

B.S. (University of Oregon)

Sean Paul Klammer, Columbus

Audry Marie Klossner, Columbus

RΑ

B.A. (Emory University)

Magna Cum Laude

Kelsey A. Kornblut, Cleveland B.A. (Boston University)

Kimberly Michelle Land, Canal Winchester B.A. (University of Dayton)

Natasha Marie Landon, Wadsworth B.A.

Kristen Noelle Lawrence, Youngstown B.A.

Sara P. Leigh, Columbus B.A. (College of William and Mary)

Melissa S. Lenz, Toledo R A

Cum Laude

Javier V. Lopez, Columbus B.A. (Kansas State University of Agriculture and Applied Science) Amber Nicole Lucci, Columbus B.A. (Mount Vernon Nazarene University)

Zachary Charles Maciaszek, North Royalton B.A. (Miami University)

Cum Laude

Brooke A. Mangiarelli, Canfield B.A.

Cum Laude

Christian D. McFarland, Reynoldsburg R A

Lucas B. McKaig, Cincinnati B.A.

Jairus L. Meacham, Fairlawn

Matthew R. Mendoza, Columbus B.A. (University of California)

Adam Joshua Midkiff, Oak Hill B.A.

Cum Laude

Amanda M. Morris, Dublin B S Humn Fcol

Kelsey Jolene Mullen, Columbus

Cum Laude

Mallory Margaret Murphy, Powell B A

Nolan E. Murray, Sandusky B.Bus.Adm. (University of Notre Dame)

Jeffrey J. Niesz, Neptune, NJ B.A. (Rutgers University)

Christine Awele Nwajei, Canton B.A., M.A. (Ohio University)

Daniel B. O'Connell, Toledo, NY B.A. (Colgate University)

Hannah P. Oster, Painesville B.A. (Ohio University) Magna Cum Laude

Brittnee R. Pankey, Reynoldsburg Bachelor's (Ohio University)

James O. Payne, Columbus B.S. (University of Cincinnati)

Maxim Perel, Dayton

Courtland Anthony Perry, Blacklick

Ellen H. Phillips, Cincinnati B.A. (Washington and Lee University)

Jordan L. Powers, Columbus B.A. (Indiana University) Magna Cum Laude Paige M. Rabatin, Columbus B.A. (Marshall University)

Christopher C. Razek, South Euclid B.A. (John Carroll University)

Lydia Ford Reback, Columbus B.A. (Smith College)

Alicia Nicole Rector, Canal Winchester B.S.Env.Nat.Res.

Paul Wilson Reiser, Columbus B.A. (University of Montana) Magna Cum Laude

Rachel A. Rinehardt, Mansfield B.A. (New York University)

Terrance D. Roberts, Columbus B.Bus.Adm. (University of Central Oklahoma)

Christian Alexander Romero, Columbus B.A. (California State University)

Anthony G. Rossi, Warren B.S. (Clemson University)

Thomas E. Rovito, Parma B.A. (Canisius College)

Samantha V. Rupp, Baltimore B.A. (University of Pittsburgh)

Brian E. Russo, Columbus B.S. (United States Air Force Academy) M.A. (George Washington University)

Lauren A. Sabo, Columbus B.A. (Denison University) M.A. (University of Colorado)

Courtney C. Sackett, Columbus B.A.

Michael Garrett Saldana, Whittier, CA B.A. (University of California)

Andrea Lynn Salvino, Columbus B.A. (University of South Florida)

Dominic David Saturday, Ashtabula B.S. (Coastal Carolina University)

Paige Nicole Schaffer, Lorain R S

Ethan M. Serry, Columbus B.A. (University of Michigan)

Brigid Eileen Sharek, Plain City B.S. (Texas A&M University) M.S. (University of Notre Dame)

Shaheen Sheikh, Columbus B.A. (Michigan State University)

Lawrence J. Shim, Columbus B.A. (University of Wisconsin)

Scott C. Shugart, Columbus B.S. (California State University)

Tyler J. Simms, Columbus B.A. (Brigham Young University)

Kimberly Ann Smith, Upper Arlington B.S. (University of Dayton)

Nicole Lyn Spaetzel, Avon B.A. Magna Cum Laude

Magna Cum Lauae

Jhannelle T. Spottswood, Columbus B.A. (University of Illinois)

James A. Stagnaro, Cincinnati B.S. (Miami University) Cum Laude

Adam T. Steele, Columbus B.S. (Brigham Young University)

Jennifer Julia Stuhldreher, Spring, TX B.A.

Megan E. Sullivan, Angola, NY B.A. (Fordham University)

Ahuva D. Sunshine, University Heights B.A. (University of Maryland)

Garychka Sylvain, Columbus B.A. (CUNY John Jay College of Criminal Justice)

Alexander Michael Tatham, Dayton B.A.

Travis N. Teare, Independence B.Bus.Adm. (Adrian College)

Morgan Leigh Tendam, Trenton B.A. (Miami University)

Charles Vincent Thomas, Columbus Bachelor's (University of Nevada)

Chakir Chimene Underdown, Dublin B.A., M.A.

Krista Dawn Warren, New Richmond B.A. (Miami University)

Kathryn Weber, Columbus B.Bus.Adm. (University of Hawaii) M.B.A. (University of Denver)

Natalie C. Weber, Cincinnati

William Matthew Weigel, Terrace Park

Paige Elizabeth Weinstein, Cincinnati

Alexis Wilder, Reynoldsburg B.A. Tanner S. Wolffram, Powell B.A. (Miami University)

Joseph B. Womick, Columbus B.A.

Cum Laude

Akmal Makram Anwar Yacoub, Harpster B.Laws (Beni-Suef University)

#### Master of Laws

Prerna Ajmani, New Delhi, India B.A., B.Laws (Jamia Millia Islamia)

Alanoud M. Alajmi, Riyadh, Saudi Arabia B.Laws (Prince Sultan University)

Gerardo Alanis Villarreal, San Pedro Garza Garcia, Mexico B.Laws (Facultad Libre de Derecho de Monterrey)

Marian Adoma Abrafi Boakye-Yiadom, Kumasi, Ghana B.A. (University of Ghana) B.Laws (University of London)

Marina Bykova, Sheksna, Russia B.A., M.A. (State University of Land Use Planning)

M.A. (The Russian Foreign Trade Academy of the Ministry of Economic Development of the Russian Federation)

Martin Castellanos Giracca, Guatemala City, Guatemala B.Laws (Universidad Rafael Landivar)

Yuxiao Chen, Beijing, China B.A. (China University of Political Science and Law)

Silpa Das, Kolkata, India B.A., LL.B. (Symbiosis International University)

Yi Gong, Yiyang, China B.Laws (Chongging University)

Xiaoxu Hu, Tianjin, China B.Laws (Yangzhou University)

Dong Hua, Hangzhou, China B.A. (Nanjing Normal University) M.Laws (Southwest University of Political Science and Law)

Huiling Jin, Shanghai, China B.Laws (Shanghai University)

Honglin Li, Hegang, China B.Laws (Northwest University of Political Science and Law) M.Laws (University of International

Yaochen Li, Chengdu, China B.Laws (Xihua University)

Business and Economics)

Lingtao Liang, Wuzhou, China B.Laws (China University of Political Science and Law)

Qidi Lin, Xiamen, China B.Laws (Chongqing University)

Chen Luo, Meizhou, China
B.Laws (China University of Political Science

Jiaxin Mai, Guangzhou, China B.A. (Beijing International Studies University) M.A. (China University of Political Science and Law)

Hadar Mauda, Rishon Le Zion, Israel B.Laws (The Haim Striks School of Law - College of Management Academic Studies)

Baver Mazlum Mert, Diyarbakir, Turkey B.Laws (Istanbul University)

Doly Olivier Mpasi Isinki Muwey, Kinshasa, DR Congo B.Laws (University of Kinshasa) M.Laws (Université de Montpellier)

Hamdy Hamed Mahmoud Negm, Qena, Egypt B.Laws (Faculty of Shariah and Law, Al-Azhar University) M.Laws (Faculty of Law, Assiut University)

Jaswinder Singh Nischal, New Delhi, India B.Laws (University of Delhi)

Caroline Jean O'Connell, Antigonish, Canada B.Laws, M.B.A. (Dalhousie University)

Uche Kenneth Oganwu, Warri, Nigeria B.Laws (University of Benin)

Felix O. Okpe, Warri, Nigeria B.Laws (University of Benin) M.Laws (Howard University School of Law) PhD (University of Aberdeen)

Juan Camilo Osma Potes, Bogotá, Colombia B.Laws (Universidad de Los Andes)

Jin Qian, Changde, China B.A. (Hunan University of Technology)

Yunpeng Qin, Zhengzhou, China B.Laws (Southwest University of Political Science and Law)

Yun Shi, Beijing, China B.Laws (Beijing Jiaotong University)

Christian Tshibanda, Kinshasa, DR Congo B.Laws (University of Kinshasa)

Bingxi Wang, Shijiazhuang, China B.Laws (Beijing Forestry University)

Huanran Wang, Kunming, China B.Laws (Shaanxi Normal University)

Ruolin Xu, Guangdong, China B.Laws (Xiangtan University) Xueli Yuan, Anyang, China B.A. (Liaoning Medical University) M.Laws (Zhejiang University)

Mengke Zhang, Hefei, China B.S. (Huaibei Normal University) B.Laws (East China University of Political Science and Law)

#### College of Medicine

Dean: K. Craig Kent

#### **Doctor of Medicine**

Alek Quinton Adkins, Powell B.S. (High Point University)

Nitish Aggarwal, Dublin B.S.

Rishav Aggarwal, Dublin B.S., M.S.

Kenneth Elyson Akakpo, Columbus B.S. (George Mason University)

Edward David Alten, Loveland B.S.

Stephanie Marie Angel, Perrysburg B.S. (University of Toledo)

Cum Laude

Rebecca Ann Anthony, Kettering B.S.

Christina Rose Arand, Columbus B.S. (Case Western Reserve University)

Maya Armstrong, Columbus B.S. (University of Florida)

Patricia Anne Arnold, Dayton B.S. (Ohio University)

Anna Askari, Upper Arlington B.A.

Martins Ajiboye Ayoola-Adeola, Columbus B.S. (Wake Forest University)

Bryan David Badal, Columbus B.S. (Brigham Young University)

Ramya Reddy Baddigam, Columbus B.S. (University of Michigan)

Michael Joseph Baggett, Columbus B.S. (University of California)

Amneet Kaur Bajwa, Dublin

Fady Joshua Baky, Canfield B.S.

Steven Earl Baum, Puyallup, WA B.S. (University of Utah)

Kyle Addison Beckwith, Columbus B.S. (University of Michigan) Ph.D.

Alexandra Rose Bonner, Medina B.A. (University of Pittsburgh)

Franklyn L. Boothe, Columbus B.S. (University of Pittsburgh)

Timothy Curtis Borup, Columbus

Melissa Beth Brown, Springboro B.S.

Cum Laude

Antonino Walter Bucca, Brecksville B.A. (Case Western Reserve University)

Kylie Michelle Bushroe, Bellbrook B.S. (University of Dayton)

Amanda Rose Campbell, Columbus B.S.Alld.Hlth.Prof., Ph.D.

Jason Campbell, Columbus B.S. (Emory University) M.S. (Georgetown University)

Jessica Elizabeth Campbell Morrison, Columbus B.S. (Vanderbilt University)

Lauren Elise Carrier, Columbus B.S. (Michigan State University)

Emily Jeong Cerier, Columbus B.S. (University of Illinois) Summa Cum Laude

Constance Williams Chapman, Columbus B.S. (Loyola University New Orleans)

William Andrew Chen, Columbus

Summa Cum Laude

Wai-Tim Chew, Columbus B.S., M.S. (Lehigh University)

David Cameron Clever, Columbus B.S., Ph.D. Magna Cum Laude

Sara Helen Adelman Coles, Dublin B.A. (Azusa Pacific University) Summa Cum Laude

Kathryn McKenzie Connor, Columbus B.S. (University of Michigan) Magna Cum Laude

Megan Rebecca Cook, Northfield B.A. (Ohio Wesleyan University)

Kristin Nicole Cooper, New Albany B.S. (University of Notre Dame) Magna Cum Laude

Michelle Marie Corrado, Boca Raton, FL B.S. (University of Florida) Paul Russell Crawford, Columbus B.S. (Brigham Young University)

Nisha Jhaveri Crouser, Columbus B.S. (Davidson College)

Seth Edwin Crouser, Fleming B.A. (Ohio University)

Rachel Phillips D'Amico, Wyoming B.S.Hlth.Reh.Sci.

Michael Edgar D'Netto, Cincinnati B.S. (University of Notre Dame)

Christopher Patrick Dall, Columbus B.S. (Duke University) Magna Cum Laude

James Edward Darnley, Columbus B.S. (University of Mount Union)

Teena Margaret Dcruz, Broadview Heights R S

Nicolas James Delacruz, Columbus B.S.

Zachary Ryan Denham, New Philadelphia B.S.Hlth.Reh.Sci.

Zachary David Deutch, Columbus B.A. (Washington University in Saint Louis)

Jaspreet Kaur Dhillon, Columbus B.S. (University of California)

David William Drees, Columbus B.A. (University of Colorado) M.A. (Loyola University Chicago)

Alyssa Danielle Drosdak, Columbus B.S. (Elon University)

Amy Du, Columbus B.S. (Massachusetts Institute of Technology) M.S. (Georgetown University)

Dheeraj Duggineni, Louisville, KY B.S.

Claire Elizabeth Durkin, Columbus B.S. (Stanford University) Cum Laude

Jennifer Lynn Edwards, Columbus B.S. (University of Utah)

Nitin Kitchley Egbert, Columbus B.A. (University of California)

Emily Caroline Fanning, Lewis Center B.S. (Miami University)

Shannon Delores Fayson, Columbus B.A. (DePauw University)

Alexandra Maria Ferguson, Columbus B.S.

Jason Alexander Galo, El Progreso, Honduras B.S.

Mary Kathleen Gaugler, Strongsville B.S. (University of Notre Dame) Cum Laude

Michael W. George, North Canton B.S.Pharm.Sci. Cum Laude

Thomas Alan Gerbus, Cincinnati B.S. (Xavier University)

Jennifer Golden Haag, University Heights B.S. (Northwestern University)

Matthew Taylor Harbrecht, Columbus B.S. (University of Notre Dame) Magna Cum Laude

Terence Metzger Hillery, Akron B.S. (Emory University)

Mohammed Usama Hindiyeh, Columbus B.S. (University of California)

Monica LaNette Hoff, Columbus B.A. (Johns Hopkins University)

Sarah Marie Horner, Columbus B.S. (Carnegie Mellon University)

Tsung-Pai James Huang, Columbus B.S. (California Institute of Technology)

Tyler Alexandria Hyman, Columbus B.A. (University of Pennsylvania)

Muhtadi Muhammad Islam, Canal Winchester B.S. (University of Dayton) Ph D

Brett Ranz Jennings, Cincinnati B.A. (Loyola University Chicago)

Lars Johann Johnson, Columbus B.S. (University of Michigan)

Tanvi Vinayak Joshi, Mason B.S.

Srirama Josyula, Fairborn B.S. Maana Cum Laude

Francis Kane, Cincinnati B.A. (George Washington University)

Charisma Jin Kaushik, Columbus B.A., B.S. (Rice University) M.S. (University of Southern California) Magna Cum Laude

Yasaman Kazerooni, Columbus B.S. (University of Michigan)

Gabriela Rose Keeton, Cincinnati R S

Kaitlyn Jo Kelly, Columbus B.A. (Colgate University) Magna Cum Laude Katie Elizabeth Kessler, Miamisburg B.A., B.S. (Wofford College)

Grace Eunhye Kim, Columbus B.A. (University of Akron)

Samantha Ann King, Centerville B.A., B.S.

Magna Cum Laude

Nadav Kalil Matya Zvi Klein, Columbus B.S. (University of Maryland)

Michelle Irmgard Knopp, Columbus B.A. (Washington University in Saint Louis)

Taylor Lynn Koenig, Akron B.S. (Georgetown University) Magna Cum Laude

Elizabeth Anne Kudlaty, Hudson B.A. (Northwestern University) M.S. (Case Western Reserve University) Magna Cum Laude

Anne Lucille Kunkler, Cincinnati B.S.Humn.Ecol. Summa Cum Laude

Douglas Alan Kyrouac, Columbus B.S. (University of Notre Dame) Magna Cum Laude

Joseph Payton Lamb, Hilliard B.S. (Capella University)

Dain Landholm, Columbus B.S. (University of Portland)

Hillary Rachel Landon, Columbus B.A. (University of Pennsylvania)

Joseph Oliver Letham, Columbus B.S. (Arizona State University)

Bess A. Levin, Columbus B.S. (University of Illinois)

Michael Ming-Ming Li, Columbus B.A. (University of California) Magna Cum Laude

Suyang Li, Dublin B.S. (Northwestern University)

James Shuhan Lin, Liberty Township B.S. (Johns Hopkins University)

Kelsey Jean Little, Columbus B.S. (University of Pittsburgh)

Robert James Macielak, Meadville, PA B.S. (University of Pittsburgh) Summa Cum Laude

Lauren Elizabeth Mamer, Los Angeles, CA B.S. (Stanford University)

Maria Christine Martin, Columbus B.S. (Georgetown University)

Alexis Matrka, Columbus B.S. (Columbia University) Summa Cum Laude

Timothy Greeley McManus, Columbus B.A. (Dartmouth College)

Rebecca Rose Mehl, Dublin B.S.

Mikhail Sahelu Melaku, Columbus B.A. (Princeton University)

Tyler Branch Merrill, Hudson B.A. (Vanderbilt University)

Jaclyn Anne Mescher, Apollo Beach, FL B.S. (United States Military Academy) Magna Cum Laude

Patrick Kenneth Mescher, Versailles B.S. (United States Military Academy)

Nicholas Andrew Miller, Columbus B.S. (University of Akron)

Hiroko Miyagi, Shaker Heights B.A., B.S. (University of Rochester)

Lilamarie Moko, Columbus B.A. (Harvard University)

Oluwasola Esther Morakinyo, Columbus B.S. (University of Pittsburgh)

Ruben Morejon, Columbus B.S. (University of Florida) M.S. (University of South Florida)

Nada Naiyer, Dublin B.S.

Gracia Ng, Dayton, KY B.S. (Xavier University)

Neha Nidhi, Powell B.S.

Michael Jeffrey Oehler, Columbus B.S. (University of North Carolina)

Kristi Michelle Olesik, Dublin B.S.Chem.Eng.

Griffin Heath Olsen, Columbus B.A. (Brigham Young University)

Angela Christine Onorato, Kirtland B.S.

Summa Cum Laude

Christine Catherine Orser, Columbus B.S., Master's (University of Illinois)

Wynton Overcast, Cincinnati B.S. (Lipscomb University) Magna Cum Laude

Yangshu Linda Pan, Liberty Township B.A. (Harvard University) Priya Ghanshyam Patel, Ellicott City, MD B.S.Nutrition

Tirth Patel, Monclova B.S. (Northwestern University)

Chandni K. Pawar, Mansfield B.S.

Ramez Hany Wadie Philips, Columbus B.S. (University of Michigan)

Leslie Charice Pillow, Columbus B.S. (Indiana University)

April Jessica Pinto, Mentor B.S. (State University of New York) M.A. (Boston University)

Saranya Prathibha, Columbus B.A. (Hendrix College)

Blake Harrison Priddy, Columbus B.S. (University of Miami)

Antoinette Josephine M.J. Pusateri, Dublin B.S. (University of Notre Dame)

Cum Laude

Kathleen T. Puttmann, Cincinnati B.S. (Case Western Reserve University)

Kristen Mikayla Quinn, Columbus B.A. (Vanderbilt University)

Karen Swei Ren, Columbus B.S. (University of Connecticut)

Matthew Tamas Reynolds, Akron B.S.Biomed.Eng.

Mitchell Andrew Romito, Twinsburg B.S.Biomed.Eng.

Louis Graham Rucker, Granville Bachelor's (Vanderbilt University)

Daniel Ian Ruter, Frankfort B.S. (University of Cincinnati)

Davidson Alexander Sacolick, Columbus B.A.

Magna Cum Laude

Joe Saba Salloum, Strongsville B.A. (Case Western Reserve University)

Malik Rahsaan Sams, Columbus B.A. (University of Rochester)

Austin Hunter Schnitzer, Blacklick B.A. (Johns Hopkins University)

Cynthia Schwartz, Powell B.S.Aero.Astro.Eng.

Nicholas Maxwell Scoville, Columbus B.S. (Brigham Young University) Cum Laude

Steven Davis Scoville, Hilliard B.S. (Brigham Young University) Ph.D. Amy Jo Scullion, Columbus B.S.Nutrition

Rishabh Sethia, Columbus B.S. (Indiana University)

Tanya Shah, Columbus B.S. (Columbia University

Lena Alexandria Shay, Columbus B.S. (Ohio Northern University)

Cameron Charles Sheehan, Powell B.S.

Tyler James Sheetz, Eighty Four, PA B.A. (Ohio Wesleyan University)

Timothy Jong-Hyun Shin, Columbus B.S. (Cornell University)

Tyler Edward Siekmann, Mason B.S.Hlth.Reh.Sci.

Magna Cum Laude

Luke Vincent Simmons, Uniontown B.S.

Riley Whelchel Smith, Columbus B.A. (Northwestern University) Magna Cum Laude

Muhammad Ausaaf-uddin Soofi, Columbus B.A. (Purdue University)

Magaly Rendon Sotres, Columbus B.S. (University of New Orleans)

Alexandra Justine Spaw, Loveland B.S. (Ohio University)

Kaitlyn Spears, Columbus B.S. (California Polytechnic State University)

Lindsey Steinbeck, Cincinnati B.S.Humn.Ecol.

Michael Benjamin Stitgen, Columbus B.S. (University of Wisconsin)

Laura Ann Sullivan, Dublin B.S. (Cornell University)

Donald James Thomas, Nashport

Courtney Brynn Tipton, Toledo B.S. (University of Michigan)

Aaron James Turnquist, Columbus B.S. (University of Minnesota)

Joy Minjeong Um, Columbus B.A. (Case Western Reserve University)

Pradheep Vemula, Columbus B.S. (Johns Hopkins University)

Gregory Versteeg, Cleves B.S. (University of Dayton) Magna Cum Laude Aaron Robert Victor, Ann Arbor, MI B.S. (Case Western Reserve University) Ph.D.

Jennifer Taylor Wajahn, Chesterland B.S. (University of North Carolina)

Robert James Wassel III, Loveland

Clem John Wegman III, North Bend B.S.Hlth.Reh.Sci. Summa Cum Laude

Dustin Michael Welch, Powell B.S. (Brigham Young University)

Eric Gregory Welder, Columbus B.S. (Stanford University)

Alexandra Brooke Wells, Uniontown B.S. Nutrition

Mark Julian Wells, Troy B.A. (Vanderbilt University) M.A.

Justin David Wildemann, Columbus B.S. (University of Pittsburgh)

Jacob Zane Williams, Solon B.A. (Kenyon College)

Van Don Williams II, Columbus B.S. (City College of the City University of New York)

Karen Nicole Woods, Columbus B.S. (Grove City College)

Brennan Merrill Wright, Columbus B.S. (Brigham Young University)

Mengzhi Wu, Cleveland B.S. (Case Western Reserve University)

Zhaoying Xian, Boston, MA B.S. (California Institute of Technology)

Alexander Christopher Yaney, Columbus B.S. (University of Notre Dame)

Peter Young Jae Yu, Columbus B.A. (Northwestern University)

Christopher Zixiang Zheng, Columbus B.S. (Cornell University)

Cum Laude

#### Bachelor of Science in Biomedical Science

Nicholas Alex Berry, Muskego, WI Summa Cum Laude with Honors in Medicine

Nicholas Andrew Bishop, Eldersburg, MD Magna Cum Laude with Honors in Medicine Anjali Digish Doshi, New Albany
Cum Laude

with Honors in Medicine

Bradley Wayne Eichar, Wooster

Magna Cum Laude with Honors in Medicine

with Honors Research Distinction in Biomedical Science

Mason Daniel Fisher, Columbus
Magna Cum Laude

with Honors in Medicine
Maria Jose Guerrero, Dublin

laria Jose Guerrero, Dublin Cum Laude with Honors in Medicine

Holden Vincent Kelley, Cincinnati

Alexander Matthew Lacey, Dublin
Magna Cum Laude

with Honors in Medicine Neil Omprakash Makhijani, Centerville

Summa Cum Laude
with Honors in Medicine

Molly McNamara, Dublin Magna Cum Laude with Honors in Medicine

Karan Rajesh Naik, Centerville Summa Cum Laude with Honors in Medicine

Christina Marie Namakydoost, Powell Cum Laude

with Honors in Medicine Komal Atul Paradkar, Mason Magna Cum Laude

with Honors in Medicine Remy Thomas Powell, Columbus Summa Cum Laude

with Honors in Medicine

Maria Kathleen Riley, Sunbury

Magna Cum Laude

with Honors in Medicine
Stephen Alexander Rudolph,
Cranberry Township, PA

Cranberry Township, PA Summa Cum Laude with Honors in Medicine Clinton David Stamper, Ashville

Magna Cum Laude
with Honors in Medicine

Alexander Machiel Weiss, New Albany Magna Cum Laude with Honors in Medicine

Jonathan G. Zins, Powell Magna Cum Laude with Honors in Medicine

# School of Health and Rehabilitation Sciences

# Bachelor of Science in Athletic Training

Alison Rae Adams, Wadsworth

Cum Laude
Patrick Andrew Barton, Centennial, CO

Cum Laude Landon David Bentz, Gahanna

Jeremy Robert Bowman, Wallkill, NY Evan Miles Brookbank, Newark Magna Cum Laude Mackenzie Anne Chamberlain, Napoleon Alaina Durden, Toledo

Cum Laude

Anna Marie Grimes, Fairfield Chelsea Gruber, West Milford, NJ Alvssa Ann Gwin, Dalton Cum Laude

Andrea Danielle Hise, Middletown, IN Harrison Skyler Kuehn, Walnut Creek, CA

Jensen Marie LeJeune, Fremont Maana Cum Laude

Kelsey Lensman, North Canton Magna Cum Laude

Amanda Sue Linhart, Salem

Kirsten Lorek, Mentor

Samantha Renee May, Newburgh, IN Magna Cum Laude

Aundrea Kay McDaniel, Xenia Samuel Lewis McIntosh, Wellsville Joshua Alexander Mosier, Huber Heights Cum Laude

John Anthony Pfizenmayer, Sewell, NJ Maana Cum Laude

Natalie Marie Phipps, Cincinnati

Emily Kathleen Pinski, Findlay Jeremy Andrew Simmons, Columbus Margaret Marie Simon, Columbus Cum Laude

Ericka Marie Smith, Lima Cum Laude

James Stephen Spicuzza, Cleveland

Cum Laude Morgan Nikole Staten, Smithfield

Cum Laude Andrea Marie Stocker, Elida

Magna Cum Laude

Rachel Lynn Trimmer, Westerville

#### **Bachelor of Science in Health and Rehabilitation Sciences**

Theophilus Ahene-Akwa, Kumasi, Ghana Mustafa Ahmad, Cincinnati Abdullahi Ali Ahmed. Columbus Kowsaro Abdullahi Ahmed, Columbus Cum Laude

Elizabeth Ann Alaimo, Liberty Township Cum Laude

Dawit Gebrelibanos Alemayehu,

Los Angeles, CA Matthew Parker Altman, Cincinnati

Ikechukwu Leon Ariguzo, Gahanna Katelyn Elizabeth Arlia, Garfield Heights Taylor Rae Arnold, Minster

Brittany Nicole Astles, Mason Magna Cum Laude

Lauren Parrish Athey, Potomac, MD Maana Cum Laude Zachary James Bailey, Lima

James Edward Ballenger III, Westerville Elizabeth Ann Barmash, Sylvania Cum Laude

Ellis S. Barnes, Bluffton Joshua Ryan Bartels, Roanoke, TX Magna Cum Laude

Jackson Robert Baumgartner, Hilliard Elizabeth Hannah Beattey, Nashport

Allison Nicole Beattie, Hilliard Beau Hunter Sanchez Bilek, Chillicothe Justin Roy Bingaman, Kirtland Magna Cum Laude

Erin Nicole Bishop, Sylvania Maana Cum Laude

Danielle Violet Blaine, Jericho, NY

Kaitlyn Elizabeth Blake, Columbus Charity Elizabeth Bodine, Lima Cum Laude

Savannah Renee Boleky, Las Vegas, NV

Brooke Ellen Boring, Hilliard Maana Cum Laude

with Honors in Health and Rehabilitation Sciences

Logan Summer Braun, Sandusky umma Cum Laude

Madison Renae Bridges, West Chester Cum Laude

Jessica Frances Brisk, New Albany Lindsay Brush, Gahanna

Emma Caroline Buddenhagen, Macedonia Abigail Rae Buecker-Berger, Piqua Maana Cum Laude

Alexander Thomas Burgdorf, Cincinnati Jason Christopher Bush, Berea Luke Bushrow, Sylvania

Cum Laude Alexandra Butler, Mentor

Cum Laude Zachary Ryan Caldwell, Wooster Brooke Alexandra Carlisle, Columbus

Sydney Marie Carr, Mason Marrissa Renee Carver, Alliance

Cum Laude Sydney Anne Cearlock, Las Vegas, NV

Summa Cum Laude

Martin Joseph Chapman, Cleveland Heights

Darby Lynn Christy, Lewis Center Maana Cum Laude

Madisen Michelle Clifton, Indianapolis, IN Cum Laude

with Honors in Health and Rehabilitation Sciences with Research Distinction in Medical Dietetics

Madison Ann Cline, Centerburg Magna Cum Laude

Chelsea Nicole Combs, Waverly Megan Elizabeth Comer, Columbus Maana Cum Laude

Lucia Celeste Congeni, Akron Magna Cum Laude

with Honors in Health and Rehabilitation Sciences Olivia Margaret Cook, Brecksville Rachel Ann Cooper, Grove City

Sydney Paige Czuprynski, Bartlett, IL

Olivia K. Daggett, Galena Maana Cum Laude

Amanda Elaine Daniels, Canton Marianne Nicole Dannemiller, Wadsworth

Lucille Daugherty, Akron Jennifer Lynn Davies, Dorr, MI Matthew Alphonso DeDad, Holland Christina Elizabeth Anna DeGraw, Athens

Brenna Claire Deneher, New London, NH Cum Laude

Lisa Louise Denning, Columbus Summa Cum Laude

Mallory Christine Dennis, Toledo Cum Laude

Jamie DiDomenico, Youngstown Summa Cum Laud

Connor J. Divens, Howland Maana Cum Laude

Paul Thomas Duesler, Avon Magna Cum Laude

Hannah Durst, Springfield Danielle Makenzie Dziak, Wakeman Danielle Marie Edwards, Wadsworth

Brooke Emanda Ekers, Medina Cum Laude

Cum Laude

Danielle M. Espinoza, Crown Point, IN Alex Thomas Estrel, Sylvania Magna Cum Laud

Austin Wayne Evans, Lebanon Taylor Lyn Everhart, Westerville Avan Mohamed Farah, Columbus Danielle Marie Farnlacher, Whitehall Emily Marie Faster, Columbus Maana Cum Laude

Kristin Evelyn Faulkner, Columbus Summa Cum Laude Allison Mamie Fehlhaber, Westerville

Maana Cum Laude Megan Elizabeth Ferguson, Dayton

Natalie Joi Ferguson, Creston

Andrew Charles Ferriby, Troy, MI Kelsey Anne Fiorello, Willoughby Kristen Marie Fissel, Pickerington Armand Edward Fontes, Canton Alexandra Pamela Ford, Darien, CT Cum Laude

Chase Matthew Frazee, Kirtland Hills Magna Cum Laude

Alexa Rae Friedlander, Worthington Amanda Nicole Gardner, Fleming Maana Cum Laude

Emily Ann Gatterdam, Bexley Cassidy Lynn Gawlik, Strongsville Cum Laude

Liya Gebru, Brownsburg, IN Magna Cum Laud

Abigail Rose George, Hudson Andrea Marie Gerstner, Dayton Summa Cum Laude

Peyman Todeshkchouye Ghasemi, , Westerville Maana Cum Laude

Andrew Len Gilbert, Delaware Daniel Gilmore, Springboro

Magna Cum Laude with Research Distinction in Medical Dietetics

Ashley Briana Gomez, Olmsted Falls Summa Cum Laude

Madisyn Julia Good, Avon Lake Summa Cum Laude

with Research Distinction in Medical Dietetics Patricia Elizabeth Gore, Oakton, VA

Maana Cum Laude Hanna Leigh Gottschalk, Cincinnati Maana Cum Laude

Sarah Lynn Gould, Springfield Magna Cum Laude

Madison Nicole Graham, Perrysburg Alexis Victoria Green, Copley

Jessica Louise Gregory, Sagamore Hills Cum Laude

with Research Distinction in Medical Dietetics Heather Brianne Gruhlke, Sandusky Rachel Elizabeth Gurley, Mentor Summa Cum Laude

Taylor Morgan Hart, Toledo Iffat Hashmi, Columbus Summa Cum Laude

Phillip Bradley Hasson, Ashville Magna Cum Laude Lauren Hedges, Columbus

Kristen Margaret Hehman, Springboro Maana Cum Laude

with Honors in Health and Rehabilitation Sciences with Research Distinction in Health Science Erin Paige Helmers, Cincinnati

Karen M. Hinninger, Plain City

Cum Laude

Lisa Ann Hoenie, Celina Erica B. Holland, London Minnie Hou, Glen Cove, NY Cum Laude

Allison Margaret Hoyle, Cincinnati Magna Cum Laude

Megan Huber, Cincinnati Hannah Shelby Husted, Columbus Cody Scott Huth, Dalton Maana Cum Laude

Paul August Hynes, Mason Cum Laude

Julianna Paige Iafallo, Eden, NY Cum Laude

Sara Marie Isaac, Cincinnati Fathima T. Jabeer, Dublin Mark Joseph Jacob, Cincinnati Zachary Ryan James, Cincinnati Nikolina Jandric, Cleveland MaryKate Janita, Somerset

Maana Cum Laude

Madeline Jeffries, Hudson Kara Marie Johanson, Rocky River Brandi Lynn Johnson, Newport Cum Laude

Hannah Rae Jones, Marion Cum Laurie

Kelly Elizabeth Jones, Independence Cum Laude

Madelyne Alexandra Jones, Baltimore, MD

Morgan Lynn Jostpille, Delphos Magna Cum Laude

Kristine Lyn Kammeyer, Pataskala Cum Laude

Grace Marie Karam, Cleveland Heights Derek Roger Kasper, Venetia, PA Summa Cum Laude

Joshua Douglas Kemp, Perrysburg Maana Cum Laude

Allyson Rae Kender, Cleveland Rachel Teresa Kernan, Dublin

Claire Paige Kerscher, Waterville Cum Laude

Rida Khan, Reynoldsburg Bertha Kim, Richland, WA Amanda Rose King, Dover Katelyn Elizabeth Kinkead, Powell Kathleen Danielle Koch, Cincinnati Cum Laude

Amy Nicole Koenig, Lima Kara Lindsay Kopan, Mentor Bradley Kruithoff, Shaker Heights

Erin Elizabeth Kuisti, Westerville Amber N. Kumler, Newark Eun Seo Kwak, Dublin

Cum Laude

with Honors in Health and Rehabilitation Sciences

Andrew Thomas Langner, Cleveland

Cum Laude

Katelyn Ruth Ann Larger, Sidney

Magna Cum Laude

Catherine Laudani, Webster, NY
Magna Cum Laude

Deborah Lee, Westerville

Cum Laude

with Honors in Health and Rehabilitation Sciences
Melissa S. Lee. Findlay

Rachel Brooke Levine, Oceanside, NY

Cum Laude

Eric Chia Chen Lin, Fremont, CA

Shao-Hsuan Lin, Taiwan, China Jennifer Lindgren, Sioux Falls, SD Cum Laude

Meghan Elise Linz, Canton Magna Cum Laude

Emily Jo Loeb, Dublin
Cum Laude

Abigail Mackenzie Loeffler, Novi, MI Magna Cum Laude

Victoria Suzanne Long, Harrison Cum Laude

Andrea Nichole Lumiere, Columbus Kendra Marie Lykins, Sycamore Ashley Marie Lyons, Fernley, NV Megan Marie Maag, Ottawa Magna Cum Laude

Alexa Magner, Centerville

Cum Laude

Alison Kathryn Malik, Galena Badar Ahmed Malik, Galena Emily Rose Marchal, North Star Alison Leah Marshall, Dover Emilia Elaine Martin, Lewis Center

Ayrin Mason, Solon Paige Morgan Mathewson, Defiance

Katelyn Rae Maynard, Cincinnati

Kelly Jean McCartney, Van Buren
Cum Laude

Meghan Anne McGillis, Berwyn, PA Mitchell Scott McGuire, Pickerington Christopher M. Mead, South Glens Falls, NY Cum Laude

Gabrielle Michaeli, Fort Lauderdale, FL Magna Cum Laude

John Patrick Mickley, North Canton Summa Cum Laude with Honors in Health and Rehabilitation Sciences

with Honors in Health and Renabilitation Sciences with Research Distinction in Health Science Caroline Suzanne Mifsud, Cambridge

with Research Distinction in Health Science
Valerie Jo Mikec, Pittsburgh, PA

Kieran Milliken, Glassboro, NJ Arika Rachael Mills, Celina Cum Laude

Abigail Lynn Mitchell, Springfield

Allison Paige Mittman, Bexley
Cum Laude

Emily Denise Mongaraz, New Carlisle

Cameron Tyler Moore, Toledo

James Douglas Moore, Columbus

Katelyn Mae Mountain, Alliance Paul Mueller, Albany

Alexandra Lauren Mulvenna, Haddonfield, NJ Cum Laude

Frank Ruhl Myers, Westerville

Steven Louis Nagy, Parma Cum Laude

Hawa Ndiade, Blacklick

Christina Elizabeth Negray, Avon Magna Cum Laude

Elizabeth Ruth Netzel, Cincinnati Anna Ngo, Lewis Center

Magna Cum Laude

with Honors in Health and Rehabilitation Sciences

Yen Hoang Nguyen, Columbus Mikayla Marie Nielsen, Bethesda, MD Noelle Lynn Norris, Cleveland Summa Cum Laude

Morgan Oglesby, Hillsboro Alex John Osborn, Pandora Magna Cum Laude

Alexis Anne Osimani, Blacksburg, VA Cum Laude

Lydia Yee Ott, Pittsburgh, PA Angela Maria Parillo, Boardman with Research Distinction in Medical Dietetics

Jinesh Mukesh Patel, Troy Sara Nicole Patterson, Mentor Angela Christina Patton, Westerville Brandon Howard Pavilack, Hamilton Summa Cum Laude

Casey Alan Perch, Green

Dahlia Perez, Ostrander Cum Laude

Serafima Pavlovna Petrenko, Lewis Center Magna Cum Laude

Erin Kimberly Pevoar, Miamisburg Magna Cum Laude

Andrew Glen Pfander, Mason Garret Phipps, Washington Court House Taylor Nicole Pratt, Whitehouse Jessie Lynn Predieri, Dayton Mogno Cum Laude

Kathryn Jane Prenger, Minster

Allison Nicole Priest, Lewis Center Magna Cum Laude

Justine Quick, Westerville Catherine Amelia Racco, Uniontown Cum Laude

Brandon Allen Rapp, Westerville Lindsay Ann Rausch, Bucyrus Cum Laude

Ian Houston Ready, Columbus Kelly Christine Ritchey, Shreve

with Research Distinction in Medical Dietetics

Haley Renee Robinson, Medina Cum Laude

Jacob Anthony Rogers, Clintonville Haley Jean Eicher Rohaley, Streetsboro Jacqueline Olivia Roussos, Pittsburgh, PA
Cum Laude

Abigail Joy Rubins, Dayton
Magna Cum Laude

Alexis Kathleen Ruble, New Vienna Magna Cum Laude

Domenique Russo, Sicklerville, NJ Abdulrahman Yusuf Salah, Mogadishu, Somalia Rachel Wood Salyers, Carroll

Amanda Jade Sandbrink, Lancaster Jessica Lynn Schaner, Barnesville Cum Laude

Cortney Ann Schroeder, Amherst
Cum Laude

Zachary Louis Schroeder, Lima Kara D-Mae Schudel, Defiance Emma Koverman Schuermann, Dayton Manna Cum Laude

Jessica Lynn Schwab, Beavercreek Kaitlin Marie Sebourn, Columbus Emily Marie Seifert, Barberton

Amanda Jeanne Sepion, Columbus Cum Laude

Amanda Marie Shearer, Orlando, FL Jared Joseph Richard Sherry, Paulding Magna Cum Laude

Sara Louise Shinn, Lancaster Ahmad Ghaleb Shkoukani, Columbus Maylea Rose Siebert, New Lebanon Cum Laude

Emma Grace Siegel, Cincinnati Summa Cum Laude

with Honors in Health and Rehabilitation Sciences Riley Rose Chepke Skinner, Hudson Eric John Skropits, Magnolia

Cum Laude
Claire Jeanne Slater, Gahanna
Cvndall Ann Slemp, London

Magna Cum Laude Evan Michael Smith, Worthington

Magna Cum Laude
Sarah Christine Stark, Olmsted Falls

Mogna Cum Laude Benjamin Joseph Stechschulte, Lima Kristin Marie Stemmler, Pittsburgh, PA Emma Katherine Sturbleng, Amherst Hien Minh Ta, Bexley Si Lea Tan, Singapore

Cum Laude
Paige Janis Tanzer, Medina

Magna Cum Laude
Sarah Margaret Taylor, Columbus
Magna Cum Laude

Cynthia Tchamsi, Columbus Thanh-Truc Thuy Thai, Chillicothe Rachel Ann Tilson, Gahanna Xian Liang Toh, Singapore

Summa Cum Laude

Katherine Marie Touvelle, Cincinnati

Danielle C. Townsend, Wellington Alexis Ann Trudell, Hilliard Madeline Rae Tuohey, Cleveland Cymone Allyssa Turner, Columbus Ryan Anthony Ule, Mentor

Kayla Marie Vath, Tipp City Magna Cum Laude

Lisa Kathleen Voorhis, Charlotte, NC Cum Laude

Josephine Marie Walter, Wilsonville, OR Katherine Susan Walters, Titusville, PA Xinyi Wang, Shanghai, China Cum Laude

Allison Mackenzie Wank, Woodville Hannah Nicole Warren, Findlay Macie Elizabeth Watkins, Galena

Jessica Kathleen Wetzel, Erie, PA Summa Cum Laude

Haleigh Emma White, Galena Cum Laude

Megan Ruth Whited, Galion Taylor Danielle Wicks, Massillon Kathryn Emily Willer, Spring, TX Magna Cum Laude

Daniel Williams, Hebron

Samantha Lee Wilson, St. Marys

Qi Hui Wong, Singapore
Summa Cum Laude

with Research Distinction in Medical Dietetics

Rebecca Renee Woodson, Hilliard
Cum Laude

Megan Kayla Worley, Woodstock, GA Cum Laude

Sarah Renee Wright, Bluffton Cum Laude

Jessica Jean Yeadon, Happy Valley, OR Summa Cum Laude

Jiaxin Yin, Cincinnati Summa Cum Laude

with Honors in Health and Rehabilitation Sciences

Alayna Kae Zuiderweg, New Albany

#### Certificate of Post Baccalaureate Medical Technologist

Kellee Annabeth Huthmacher, Bellbrook Aaron James Sutherland, Canton

#### College of Nursing

Dean: Bernadette M. Melnyk

#### Bachelor of Science in Nursing

Kevin Tyler Adams, Clintonville Magna Cum Laude

Donna Grace Albany, Westerville

Magna Cum Laude

Kelley Anna Allandein Laude

Kalley Anne Allenstein, Lewis Center Summa Cum Laude

Emily Anne Aman, Delaware

Cum Laude

Kassidy Rae Ams, St. Charles, IL

Magna Cum Laude with Honors Research Distinction in Nursing

Sarah Lynn Andrews, Columbus Miah-Sophia Appugliese, Youngstown Danielle Marie Aquila, Painesville Magna Cum Laude

Miranda Irene Arozarena, Maineville
Cum Laude

Jacob Alan Bailey, Grove City Summa Cum Laude with Honors Research Distinction in Nursing Audrey Grace Barrett, Fairfield Summa Cum Laude

Morgan Dale Beachy, Plain City Maana Cum Laude

Haylie Maye Beck, Arlington Cum Laude Paige Madison Bennett, Mason

Summa Cum Laud

Amanda Noel Blakley, Troy Cum Laude

Michael John Boals, Mansfield Cum Laude

Justine Marie Rond Mansfield Nicole Marie Brandewie, Minster Maana Cum Laude Allison Lia Branigan, Strongsville

Maana Cum Laude Elizabeth K. Brenneman, Crestline Kelley Clarice Brooks, Columbus

Ashley Marie Brown, Lima Caroline McCarthy Buck, Loveland Magna Cum Laude

with Honors Research Distinction in Nursing Cameron Wavne Buhrts, Groveport

Cum Laude

Caitlyn Michelle Byrd, Malvern Magna Cum Laude

Elizabeth Racquel Calderone, Johnstown Kim Li Hope Cannane, Marion

Summa Cum Laude Dory Claire Cassidy, Columbus

Summa Cum Laude Rebecca Ann Chenos, Dublin

Morgan Kathleen Ciehanski, Westerville Magna Cum Laude

with Honors Research Distinction in Nursing Jill Anne Clark, Jackson

Sarah Michele Clemens, Hilliard Cum Laude

Allison Justine Cloud, Wilmington Maana Cum Laude

Molly Elizabeth Crouch, Kettering Magna Cum Laude

Meredith Love Cutler, West Chester Maana Cum Laude

Maria Elizabeth Di Meo, Cincinnati

Magna Cum Laude Paul James Dillon, Columbus

Sarah Jo Dominic, Centerville Summa Cum Laud

Kimberly Sue Doubek, Ashland Mary Redican Ebner, Lakewood Magna Cum Laude

Lauren Elizabeth Egle, Upper Arlington Cum Laude

Katelyn Hope Eichar, Wooster Cum Laude

Delina Sheree Farnlacher, Whitehall Cum Laude

Hailey Marie Farrell, North Olmstead

Serina Victoria Felicetti, Lancaster Nicole Christine Fisher, Columbus Summa Cum Laude

Katherine Elizabeth Flinders, Dublin Cum Laude

Claudia Suzanne Flory, Defiance Summa Cum Laude

Laura Paola Forero Lopez, Mason

Magna Cum Laude with Honors Research Distinction in Nursina Alisha Danielle French, Solon Summa Cum Laude

Ellen Marie Frey, Cincinnati Summa Cum Laude

Abigail Sarah Frooman, Cincinnati

. Maana Cum Laude with Honors Research Distinction in Nursing

Jessica Lynn Frost, Strongsville Maana Cum Laude

Victoria Joy Frost, Pickerington Maana Cum Laude

Jillian Frances Fuchik, Hilliard Maana Cum Laude

Kirstin Lynnd Fuchs, Ashland

Madeline Rebecca Fulper, Amherst Summa Cum Laude

Mallory Nicole Gatto, Centerville

Anne Elizabeth Gavin, Columbus Maana Cum Laude

Ksanet Tesfamicael Gebreandrias, Revnoldsburg

Brian Christopher Giannetti, North Canton Maana Cum Laude

Allison Lei Goodyear, Canal Winchester Molly Samantha Goodykoontz,

Grandview Heights Maana Cum Laude Daniel E. Gorner, Columbus

Collin Matthew Grothaus, Columbus Grove Cum Laude

Jennifer L. Grothause, Fort Jennings Melissa Lee Haffner, Columbus Cum Laude

Corissa Kaylin Hagler, Newark Cum Laude

Sheila Renee Hahn, Cridersville Krista Alexandra Hetrick, Perrysburg Summa Cum Laude

with Honors Research Distinction in Nursina

Breanna Lyn Hicks, Medina

Stephanie Ann Hoagland, Hilliard Cum Laude

Aria Yiyen Hsu, Taiwan Magna Cum Laude

Sarah Elizabeth Hunter-Rinderle, Mason Maana Cum Laude

Meghan Frances Ittu, Rocky River

Mallory Blake Jackson, Loveland Magna Cum Laude

with Honors Research Distinction in Nursina Kyle Dean Jacoby, Tiffin

Sarah Elisabeth Jansing, Dayton Cum Laude

Callie Marissa Jensen, Orlando, FL Brittany D. Jeter, Columbus Allison Frances Johnson, Pickerington Kyle Matthew Jones, Newark Meaghan Elizabeth Keeley, Mentor Michele L. Kerr, Grove City

Amanda Marie Kessler, Dublin Cum Laude

Andrew Joseph King, Dublin Kara Lynn Kitzmiller, Minster Summa Cum Laude

Josephine Gabrielle Klepec, Worthington Summa Cum Laude

Jennifer Marie Knapp, Warren Cum Laude

Danica T. Knight, Grove City Alexandria Bock Krieger, Dublin

Summa Cum Laude Clara Brunswick Krill, Maria Stein Magna Cum Laude

Oliyad Tadese Lamu, Columbus Alyssa Rose LeConey, Dayton Maana Cum Laude

Ellen Ann Ledyard, Grandview Heights Olivia Margaret Lombardi, Akron

Rebecca G. Longley, Saratoga Springs, NY Maana Cum Laude

Bailee Rae MacDonald, Hilliard Magna Cum Laude

Emily Jean Mach, Bay Village Maana Cum Laud

Matthew Daniel Maldovan, Baltimore Maana Cum Laude

Kayla O'Neill Malehorn, Mentor Maana Cum Laude

Kailyn Jahn Marcano, Lewis Center Cum Laude

Allison Lynn Martin, Upper Arlington Summa Cum Laude

with Honors Research Distinction in Nursing Josephine Marie Martina, Grandview Heights

Magna Cum Laude Lauren Renee Mary, Loveland

Magna Cum Laude Laura Marie McLaughlin, West Chester

Elizabeth Rose McNamara, Lima Summa Cum Laude

with Honors Research Distinction in Nursina Jill Meredith, Columbus Emily Mernone, North Royalton

Cum Laude Caitlin Nicole Mershad, Dayton Cum Laude

Kristiana Ivana Milkovic, Eastlake Magna Cum Laude

Helen Dampitan Morrison, Etna Olga Myronenko, Shrewsbury, MA Summa Cum Laude

Karen Bringelsen Nagel, Medina Magna Cum Laude

Ibraheem Ndong, The Gambia Mara Nicole Nebraska, Delaware Summa Cum Laude

Mackenzie Kale Newman, Willard Cum Laude

Jill Alyce Nowacki, Marion Emily Dawn Ocke, Sydney Cindy Opoku-Antwi, Columbus Anna Elizabeth Oravetz, Lakewood Magna Cum Laude

Grace Crawford Osborn, Springfield Charles Louis Pankowski, Detroit, MI Brittany Ann Parmenter, Germantown, TN

Maana Cum Laudi Keva Patel, Columbus . Magna Cum Laude

with Honors Research Distinction in Nursina

Erica Helen Paulus, Sidney Maana Cum Laude

Noah Scott Pennington, Wauseon Magna Cum Laude

Madilyn Ann Petrilla, Medina Summa Cum Laude

Alexandra Kay Ann Philabaum, Coshocton Magna Cum Laude

Chloe McCall Phillips, North Canton

Valerie Anne Podmanik, Sheffield Lake Cum Laude

Karleigh Ann-Marie Prochaska, Jeromesville Baleigh Elizabeth Reed, Versailles

Emily Alayna Rehm, Waterville Magna Cum Laude

Alora Reiff, Cincinnati

Megan Marie Reynolds, Dayton Magna Cum Laud

Amelia Nicole Robison, Columbus Magna Cum Laud

Sally Lynn Rogers, Utica Briana Tanique Salter, Akron Maana Cum Laude

Samantha Rose Saraceni, Batavia, NY Cum Laude

Lauren Kay Scher, Hilliard Jared Christopher Sciarrotta, Amherst Cum Laude

Justeen Jo Searfoss, Upper Sandusky Maana Cum Laud

Katherine Diane Seery, Westfield, N.J. Summa Cum Laud

Mildred R. Silvestri, Sylvania Summa Cum Laud

Kennedy Marie Smith, Millersburg Maana Cum Laude

Samantha Jane Smith, Thornville Magna Cum Laude

Samantha Nicole Smitley, Olmstead Falls Magna Cum Laude

Diana Lynn Snyder, Wooster Rieko Sotojima, Cincinnati Magna Cum Laude

with Honors Research Distinction in Nursina Hannah Alice Spiesman, Painesville

Brianna Michelle Stevens, Columbus

Candice Nanette Stevens, Rellefontaine Rehekah Rae Stout Brookville Hallie Rae Straka, Fairview Park

Summa Cum Laude with Honors Research Distinction in Nursing

Jacqueline Strassner, Perrysburg Magna Cum Laude

Abigail Bock Stricharczuk, Upper Arlington Maana Cum Laude

Emilee Kathleen Stroud, Lima Maana Cum Laud Joanne Marie Sulerzyski, Pepper Pike

Summa Cum Laude Sierra Logan Sullivan, Johnstown

Gordon Patrick Swank, Westerville Magna Cum Laude Donald Terrace, Lima

Meghan Terry, Pickerington Magna Cum Laude Carly Marie Truckor, Swanton

Summa Cum Laude Meredith Laura Tucker, Lima

Summa Cum Laude Meredith Marie Uhlir, Strongsville

Sydney Uy, Celina Maana Cum Laude

Jane Catherine Walborn, Cleveland Summa Cum Laude

Vaughn Wallace, Lewis Center Summa Cum Laude

Nathan Ryan Ward, Barboursville, WV
Magna Cum Laude

Erika Lynn Watts, Fairborn
Maana Cum Laude

Rachel True Webber, Upper Arlington
Magna Cum Laude

Julie Anne Weich, Elyria

Lindsey Clare Welch, Dublin

with Honors Research Distinction in Nursing
Madison Paige Wells, Newark

Magna Cum Laude

Caleb Michael White, Centerburg

Summa Cum Laude

Alexandra Marie Wilson, Reynoldsburg

Megan Nicole Wisman, Westerville

Caroline Elizabeth Witt, Dayton Magna Cum Laude

Miranda Erin Wood, Columbus Magna Cum Laude

Sarah Elizabeth Wood, West Chester Summa Cum Laude

with Honors Research Distinction in Nursing Jacob Mathew Woods, Springfield Cum Laude

Kaitlyn Sue Wulker, Loveland Summa Cum Laude

Yanling Zhang, Dublin Cum Laude

## College of Optometry

Dean: Karla Zadnik

# **Doctor of Optometry**

Layelle Tony Abi-Rached, Cleveland B.S. (John Carroll University)

Noor Abushagur, El Paso, TX B.S. (University of Texas)

Sarah Grace Baughman, Mount Vernon B.S.

Cum Laude

David Beckett, North Ridgeville B.S. (Bowling Green State University)

Jessica Lynn Bodamer, Boardman

B.S. Cum Laude

Jacob Boroff, Lucas B.A. (College of Wooster)

Margaret Mary Brucker, Austin, MN B.S. (University of Wisconsin)

Ashley Kaye Bulinski, Hilliard

Magna Cum Laude

Nicholas Joseph Carr, Metamora B S

Tawni Leanne Cashon, Bryan B.S.Nutrition

Anthony Chiang, Germantown, TN B.S. (Rhodes College)

Daniel Earl Daugherty II, North Canton B.S.Bus.Adm.

Magna Cum Laude

Tyler William Dowdall, Cincinnati B.S.

Colleen Elizabeth Doyle, Dearborn Heights, MI B.S. (Central Michigan University)

Katherine Fisher, Springboro B.S.

Jenna Marie Foglio, Ashtabula B.S. (Mercyhurst University)

Evangelia X. Fragoulis, Columbus B.A.

Jennifer Marie Fromberg, Chicago, IL B.A., B.S. (University of Minnesota)

Morgan Elizabeth Garczyk, Dillonvale B.S.Alld.Hlth.Prof. Magna Cum Laude

Leslie Suzanne Gibson, Latrobe, PA B.S. (Duquesne University)

Lauren Ashlee Goslin, Lapeer, MI

Kelsey Elizabeth Hanke, Troy B.S.Humn.Ecol.

Marca Renee Hobbs, Logan, WV B.A. (West Virginia University)

Shannon Nicole Honeycutt, Akron B.S. (University of Mount Union)

Ashley Marie Hughes, Luckey B.A. (Hiram College) Cum Laude

Ahmad Ibrahim Ibrahim, Detroit, MI B.S. (University of Michigan)

Charles Brian Jay, Greenwood, SC B.S. (Lander University)

Minju Jung, Calgary, Canada B.S. (Queen's University)

Marisa Linda Karapasha, Canton B.S. (Cleveland State University)

Paulette Rebecca Kelbley, New Riegel B.S.Bus.Adm.

Vance Wen Fa Ku, Westminster, CO B.A. (University of Colorado) Blake Kvidt, Grand Forks, ND B.S. (University of North Dakota) Cum Laude

Cory James Lappin, New Philadelphia B.S. (Miami University)

Elizabeth Haley Lemos, Lenexa, KS

Cum Laude

Steven Thomas Manning, Wadsworth
Magna Cum Laude

Amber Rose Mathias, New Riegel B.S.Educ. (Bowling Green State University)

Jordyn Grace Matuschka, Sheboygan, WI B.S. (Marquette University)

Lauren McCall Mitchell, Avon Lake B.S. (Ohio University) Magna Cum Laude

Margaret Elizabeth Moore, Germantown, MD B.S. (University of Notre Dame)

Idil Ovutmen, Houston, TX B.A. (Earlham College)

Olivia Olufunmilayo Oyegunle, Atlanta, GA B.S. (University of Georgia)

Elham Quraishi, Manassas Park, VA B.S. (George Mason University) Magna Cum Laude

Emily Nicole Rausch, Marysville B.S.Nutrition Cum Laude

Maxwell Edward Rennaker, Grand Rapids, MI B.S. (Michigan State University)

Kevin Scott Rodda, Wooster B.S. (Denison University) Cum Laude

Danielle Tamburino Sabelli, Poland B.S. (Pennsylvania State University)

Jessica Saraan, Novi, MI B.S. (University of Michigan)

Erica Rose Shelton, Avon Lake B.S. (University of Dayton) Magna Cum Laude

Mankiran Singh, Buffalo, NY B.S. (State University of New York)

Casey Marie Smith, Dayton B.S. (California State University)

Zachary Thomas Stapleton, Lebanon B.S. (Xavier University)

Jennifer Rene Steineman, Minster B.A.

Magna Cum Laude

Robert Steven Sunderman, Cincinnati B.S. (University of Dayton)

Jenny Tran, Cleveland R S

Heather Van Law, Highlands Ranch, CO B.S. (Hillsdale College)

Ellen Blair Vandenberg, Marietta B.S.Food.Sci. Cum Laude

Tunde Szendele Veres, Parma B.S. (Cleveland State University) Summa Cum Laude

Eric Ward, Amherst B.S. (University of Dayton)

Michael John Watt, Mooresville, NC B.S. (Appalachian State University)

Cum Laude

Kimberly Rose Weisenberger, Columbus B.S. Summa Cum Laude

Herbert Tanner Wentzien, Solon, IA B.S. (University of Iowa) Magna Cum Laude

Taylor Davis Whitley, China Grove, NC B.S. (Guilford College)

Rebecca Cristyn Windham, Charlotte, NC B.S. (University of West Florida)

Jeannie Xie, Chicago, IL B.S. (University of Illinois)

Brennen Ritter Yaquinto, Stow B.S.

Stephanie Taylor Yarnell, Sylvania B.S.

## College of Pharmacy

Dean: Henry J. Mann

#### **Doctor of Pharmacy**

Andrew Steven Anderson, Cuyahoga Falls B.S.Pharm.Sci.

Scott Anthony Baro, St.. Louis, MO B.S. (Purdue University)

Jennifer Lee Bevan, Columbus B.A.

Aaron Dyanand Bisnath, Elmhurst, NY B.S. (City College of the City University of New York)

Melvin E. Black II, Cincinnati B.S.Pharm.Sci. Morgan Suzanne Brauner, Westerville B.S.Pharm.Sci.

Summa Cum Laude

Jessica Marie Brumbaugh, Napoleon R S Pharm Sci

Summa Cum Laude

Sarah Jean Bugner, Rochester, NY B.A. (University of Rochester) Cum Laude

Melvi Chacko, Milford B.S. (University of Cincinnati) Cum Laude

David Tai Chen, Thousand Oaks, CA B.S. (University of California)

Delaney Caitlin Childers, Johnstown B.S. (Dominican Col of Blauvelt) Cum Laude

Sonhee Marilee Cho. Pacific Grove, CA B.S. (Brigham Young University)

Shelby Nicole Corbin, Akron B.S.Pharm.Sci. Magna Cum Laude

Justin Benjamin Corpus, Columbus B.S. (California State University)

Joseph Michael Cusimano, Chandler, AZ B.S. (Arizona State University) Maana Cum Laude

Richard Tyler Davis, Grove City B.S.Pharm.Sci.

Maana Cum Laude

Phouttha-aphai Bobby Dimanh, Dallas, TX B.Bus.Adm. (University of Texas)

Catherine Elizabeth Doyle, Troy B.S.Pharm.Sci.

Angel Markia Edwards, Springfield B.S. (Central State University)

Janetta Theresa Emmelhainz, Columbus B.S. (Arizona State University) Summa Cum Laude

Jacob Jeffrey Engelmeier, Saline, MI B.S

Maana Cum Laude

Ethan Richard Evans, Cincinnati B.S. (University of Charleston)

Kyle Joseph Ficht, Chesterfield, MI B.S. (Oakland University)

Jill Miranda Filar, Chicago, IL B.S. (University of Illinois) Cum Laude

Andrea Leigh Finger, Troy, MI B.S. (University of Notre Dame) Maana Cum Laude

Michael Paul Friebe, St. Cloud, MN B.A. (Saint John's University)

Gianni Gagliardi, Middleburg Heights

Dayna Yael Gewolb, Longwood, FL B.S. (University of Florida)

Piper Jo Glaab, Hamilton B.A. (University of Kentucky) Cum Laude

Victoria Caroline Grav. Hudson B.S. Maana Cum Laude

Aubrey Morgan Hale, Niles B.A. (Youngstown State University)

Mackenzie Harrell, Cincinnati B.S.Pharm.Sci.

Andrea Louise Haugtvedt, Westerville B.A., B.S.Pharm.Sci. Summa Cum Laude

Michelle Ann Hilton, Canal Winchester B.S. (University of Utah) Cum Laude

Bhargavi Jayaraman, Lusaka, Zambia B.S. (University of Kentucky)

Jace Wayne Jensen, Kanab, UT B.S. (Dixie State University)

Aundrea Marie Jocola, Warren B.S.Pharm.Sci. Maana Cum Laude

Megan Colleen Johnson, Wellington B.S.Pharm.Sci.

Sarah Marie Jones, Dover R S Pharm Sci Summa Cum Laude

Rutvik N. Joshi, Valsad, India B.Pharm. (Veer Narmad South Gujarat University)

Summa Cum Laude

Kwang Bin Kim, Columbus B.S.Pharm.Sci.

Cum Laude

Luke Christopher Kowalczyk, Strongsville B.S.Pharm.Sci. Maana Cum Laude

Michael Joseph Kowalczyk, Strongsville B.S.Pharm.Sci.

Maana Cum Laude

Annalise Claire Krautwater, London R S Pharm Sci

Maana Cum Laude

Andrew Joseph La Rosa, Dublin RS

Magna Cum Laude

Garrett Michael Lambert, Pittsburgh, PA B.S.Pharm.Sci.

Magna Cum Laude

Marie Alexandra Latsa Willowick R S Pharm Sci Cum Laude

Rachel Irene Lavelle, Massillon B.S. (Duke University) Magna Cum Laude

Ting-Ying Liang, Taipei, Taiwan B.Pharm. (Kaohsiung Medical College) Cum Laude

Valentina S. Lim, Mayfield Heights B.S. (Gadjah Mada University) Summa Cum Laude

Wendy Lin, Canton B.S.Pharm.Sci.

Andrew Thomas Litmer, Beavercreek B.S.Pharm.Sci.

Cum Laude

Addie Marie Littrell, Grove City B.A. (Transylvania University) Summa Cum Laude

William Charles Loomis, Canfield B.S.Pharm.Sci. Cum Laude

Sean Michael Lose, Jersey Shore, PA B.S. (Lock Haven University of PA) Cum Laude

BrookeAnne Grace Magrum, Graytown B.S.Pharm.Sci. Maana Cum Laude

Claire Suzanne Mattison, Zionsville, IN B.A. (Miami University) Summa Cum Laude

Samuel Ryan McCollum, Dayton B.S.Pharm.Sci. Magna Cum Laude

Jonathan Patrick Morris, Westerville B.S.Pharm.Sci. Cum Laude

Jamie Lynn Mudrick, Brunswick

Edwin Michael Murphy, Columbus B.S.Pharm.Sci. Cum Laude

Samantha Ann Myruski, New Hampton, NY B.S. (Suny College)

Dung Phuong Nguyen, Hanoi, Vietnam B.A. (College of Wooster) Cum Laude

Phung Kim Nong, San Diego, CA

Kristen Dale Nymberg, Center Valley, PA B.A., B.S. (Virginia Polytechnic Institute and State University) Summa Cum Laud

Mallory Alexandra O'Connor, Mason B.S.Pharm.Sci.

Summa Cum Laude

Alexis Kane Page, Moultonborough, NH B.S. (Virginia Polytechnic Institute and State University) Cum Laude

Aakash Jay Patel, Albany, GA B.A. (University of Georgia)

Vatsal Patel, Dublin B.S.Pharm.Sci. Maana Cum Laude

Logan Scott Pfeffer, Pataskala

Mackenzie Rose Piche, Perrysburg B.S. (Pennsylvania State University) Magna Cum Laude

Kelsey Renee Quinion, Hudson B.S. Maana Cum Laude

Adam Nathan Reeb, Columbus B.S. (University of Dayton) Magna Cum Laude

Rachelle Nicole Reed, Cincinnati B.S. (University of Cincinnati) Cum Laude

Adam Todd Roorda, Minneapolis, MN B.S. (University of Minnesota)

Kiersten Nicole Roth, West Chester R S Pharm Sci

Maana Cum Laude

Racquel Lee Rullo, Aurora B.S.Pharm.Sci.

Andrew Christopher Sager, Dover

Magna Cum Laude

Sarah Kalake Sakai Mesa A7 B.S. (Arizona State University) Maana Cum Laude

Christopher Matthew Salmons, Jackson B.S. (Shawnee State University) Maana Cum Laude

Christopher Abel Santos, Bronx, NY B.S. (State University of New York)

Brett Schibler, Loveland B.S. (Clemson University)

Trevor Jeffrey Schulte, Macomb, MI B.S. (Michigan State University) Cum Laude

Jeehee Cho Scoville, Pacific Grove, CA B.S. (Brigham Young University) Summa Cum Laude

Jordan Pilon Shnitzer, Burbank, CA B.S. (University of California)

Alyssa Sonchaiwanich, Jupiter, FL B.A. (New College of Florida)

Katherine Anne Soucie, Strongsville B.S.

Magna Cum Laude

Trenton James Soukup, St. Clairsville B.S.Pharm.Sci.

Stephanie Michelle Sparks, Ironton B.S.Pharm.Sci.

Madelyn DuVall Speakman, Fort Wayne, IN B.S. (Purdue University)

Wintana Stefanos, Addis Ababa, Ethiopia B.S. (Lehigh University)

Eric James Sullivan, Powell B.S. (Clemson University)

Matthew Sun, Odessa, TX B.S. (University Texas Permian Basin)

Sowmya Takkellapati, Mason B.S. (University of Massachusetts)

Vanessa Marie Taveras, Maumee R S Pharm Sci

Christopher Michael Thompson, Willowick B S Pharm Sci

Kelvin Tran, Hayward, CA B.A. (University of California) Magna Cum Laude

Martyna Turkowicz, Chicago, IL B.S.Pharm.Sci.

David F. Wai, Columbus B.S.Pharm.Sci.

Ramara Elizabeth Walker, Cleveland B.S.Pharm.Sci.

Magna Cum Laude

Mitch Robert Weishaar, Wadsworth, IL B.A. (University of Iowa) Maana Cum Laude

Kevin Alec Wenceslao, Prospect Heights, IL B.S. (Iowa State University)

Jessica Nicole Westmoreland, Geneva B.A. (Wittenberg University)

Sarah Elizabeth Wheeler, Winchester, VA B.S. (University of Virginia) Daniel Paul Whitehouse, Fort Wright, KY B.S. (University of Kentucky)

Alyssa Gail Wieser, Lima B.A.

Magna Cum Laude

Tara Jane Wise, Marysville B.S.Pharm.Sci.

Lena Anna Wu, Powell B.S.Pharm.Sci. Magna Cum Laude

Ann Daphne Xi, North Potomac, MD B.S. (University of Maryland)

Luis Ye, Columbus B.S.Pharm.Sci.

Caitlin Marie Yocum, Dublin B.S.Pharm.Sci.

Edward Cheulhwan Yoo, Columbus B.S. (Siena College)

Michele Lim Yu, Queens, NY B.S.Pharm.Sci.

Tayler Scott Yutzy, Plain City B.S.Pharm.Sci.

Joyce Zhang, Cincinnati B.S.Pharm.Sci. Magna Cum Laude

Mengqi Zhang, Wuhan, China B.S. (Kent State University) Cum Laude

Bingling Zheng, Wuhan, China B.S.Pharm.Sci. Magna Cum Laude

BreAnna Zilm, Granger, IN B.S. (Xavier University) Magna Cum Laude

# Bachelor of Science in Pharmaceutical Sciences

Adewumi Oyindamola Adetoro, Dublin Mohammad Burhan Ali, Dublin Yousef Akram Alish, Dublin Mike Alex Anderson, Liberty Township Magna Cum Laude

Chris Michael Arian, Mayfield Heights Magna Cum Laude Logan Patrick Bailey, Canton

Hailey Elise Baird, Solon

Magna Cum Laude
with Honors in Pharmaceutical Sciences

Erica Rowane Dela Pena Bautista, Dumont, NJ Magna Cum Laude

with Honors in Pharmaceutical Sciences

Daniel Marten Beckman, Chicago, IL

Mickie Lynne Blevins, Circleville

Cum Laude

Andrew Gunnar Bowersock, Pickerington Summa Cum Laude

with Honors in Pharmaceutical Sciences
Aaron Micah Bridges, Carroll
Hong kui Chen, Toledo
Jimmy Chen, Cleveland

Douglas Choi, Plainview, NY William Cornwell, Lombard, IL Prabhpeet Dhanoa, Garfield Heights MaryClare Doyle, Cincinnati

Magna Cum Laude Kelsi Leigh Escobar, Lindenhurst, IL Sarah Pauline Fannin, Pataskala Caroline Jane Fleck, Sylvania Moana Cum Laude

Tamara Caylin Funke, Algonquin, IL Cindy Gao, Dublin Summa Cum Laude

with Honors in Pharmaceutical Sciences Lauren Michelle Goettemoeller, Sidney Laura Felicia Hagy, Columbus

Natalie Taylor Hagy, Columbus

Cum Laude

with Honors in Pharmaceutical Sciences

Samantha Hochevar, Parma Magna Cum Laude with Honors in Pharmaceutical Sciences

Samantha Rose Hodges, Cincinnati Magna Cum Laude with Honors in Pharmaceutical Sciences

Miranda Elizabeth Holt, Oreland, PA

Victoria Chia-en Hsu, Taipei, Taiwan Devine De andra Jackson, Beavercreek Michael Daniel Jennison, Mentor Gaoliang Jiao, Mason

Megan Marie Kirkpatrick, Rayland Magna Cum Laude Chloe Elizabeth Knoell, Hilliard

Cum Laude with Honors in Pharmaceutical Sciences

Jacob Kocher, Bucyrus Eunice Koh, Dublin Nicole Marie Kozlowski, Sterling Heights, MI Maana Cum Laude

with Honors in Pharmaceutical Sciences Abby Marlene Kremer, Cincinnati Magna Cum Laude

with Honors in Pharmaceutical Sciences

David Young Kwang Kwon, Dublin

Amber Sora Lee, Dublin Angela Lee, Mason Summa Cum Laude

with Honors in Pharmaceutical Sciences
Dominic Russell Lewis, Dublin

Summa Cum Laude with Honors in Pharmaceutical Sciences

My Linh Thai Li, Galloway Magna Cum Laude

Mst Sharmina Liva, Dublin Samuel James Maciejewski, Cincinnati Jessica Kathryn Martz, Powell Magna Cum Laude

with Honors in Pharmaceutical Sciences
Paul Nolan Matheke, Gahanna
Kathleen Frances McDonald, Geneva

Magna Cum Laude Errienna Marcedes Mckenzie, Cincinnati Kaitlin Shea Merriam, Woodbridge, CT Nicholas Alexander Monto, Springboro Ha Khanh Nguyen, Phung Hiep, Vietman Summa Cum Laude

with Honors in Pharmaceutical Sciences
Yossan Legesse Obole, Columbus
Brooke Julia Olson, Kenosha, Wisconsin
Magna Cum Jaude

Joshua Allen Omlor, Dayton Wissam Hassan Osman, Dublin Cum Laude

Shivani Patel, Mount Prospect, IL Alayna Pease, Loveland Brendan Peterson, Cleveland Heights Arthur Joseph Pollauf II, Northwood Magna Cum Laude

with Honors in Pharmaceutical Sciences

Aaron Dee Reed, Lima Nicole Marie Reese, Lima Grace Alexandria Robirds, Grove City Shamico Jhorad Cosente Samidan,

Garfield Heights Lakhvir Kaur Sandhu, Delaware Gretchen Marie Skeans, Parker, CO Jennifer Lauren Slogar, Canton Scott Charles Stadler, Ashtabula Anthony Victor Stanley, Gates Mills Missy Aiko Sweeney, Englewood Carissa Maria Tedeschi, Westerville

Magna Cum Laude
with Honors in Pharmaceutical Sciences

Emily Elizabeth Trihas, Strongsville Fengrui Wang, Beijing, China Magna Cum Laude

Patrick Wang, Maumee Amanda Nicole Wendt, Villa Park, IL Magna Cum Laude

with Honors in Pharmaceutical Sciences
Meghanne Lenee White, Lindenhurst, IL

Jonah Michael Wraith, Sewickley, PA Chunbaixue Yang, Luoyang, China Cum Laude

Amy Zheng, Centerville

Cum Laude

Abigail Owusu Zormelo, Columbus

# John Glenn College of Public Affairs

Dean: Trevor L. Brown

#### **Bachelor of Arts**

Mayesha Amin, Columbus Eric Charles Anthony, Columbus Summa Cum Laude

with Honors in Public Affairs

Marlene Marie Berlan, Columbus Robert Joseph Caldwell, Highland Mills, NY Magna Cum Laude

Varsha Challapally, Naperville, IL Sevil Noelle Clifford, Weaverville, NC Magna Cum Laude

Zachary J. Conti, Tallmadge

Magna Cum Laude with Honors in Public Affairs

Andrew Jacob Cooper, Powell Summa Cum Laude

with Honors in Public Affairs Hannah Michelle Diercks, Loveland Taylor Ashley Elder, Powell Vanessa Paige Feldman, Austin, TX William Thomas Foreman, Springfield Benjamin David Foster, Findlay Magna Cum Laude

Chad Mikal Fracker, Columbus Rebecca Nicole Gutterman, Lake Villa, IL Magna Cum Laude

with Honors in Public Δffairs

Allison Carole Hose, Wadsworth Summa Cum Laude

Rayleen Kaur, Ponchatoula, LA Magna Cum Laude

Colton Rooke Kline, South Bloomingville Nmahawa Konate, Groveport Athina Marie Lawson, Canton Samantha Renee Lechner, Massillon Magna Cum Laude

Emily Marie Long, Maria Stein Summa Cum Laud

Lauren Kristen Muchewicz, Medina Monica Whims Nemeth, Cleveland

Summa Cum Laude with Honors in Public Affairs Tyler James Oldja, Medina

Reshma Jinesh Patel, Westerville Kamilah Prince, Dublin Kyle Devin Probert, Steubenville Kasey Cheyenne Redding, Streetsboro

Thomas MacKenzie Sodeman, Youngstown Sara Rachel Spain, Beachwood

Magna Cum Laude Noah James Spector, Wooster

Carolyn Grace Stratton, Sidney Maana Cum Laude

Ashley Alan Taylor, Toledo na Cum Laud

Sara Elaine Wendel, Hilliard Summa Cum Laude

Abigail Christine Wocher, North Bend Cum Laude

Sarah Elizabeth Young, Xenia Cum Laude

# **Bachelor of Science**

Patrick David Brueggemann, Tinley Park, IL Sterling Madrine Clemmons, Southfield, MI Daniel Gluck, North Bellmore, NY Louis Charles Graeter IV, Cincinnati Summa Cum Laude

with Honors in Public Affairs

Amber Elizabeth Gruenhagen, Napoleon Summa Cum Laude

Natalie Taylor Hagy, Columbus Cum Laude with Honors in Public Δffairs

Carter Moore Hall, Blacklick Summa Cum Laude

Evelyn Caroline Kennedy, Westlake Summa Cum Laude with Honors in Public Affairs

Conor Griffin Miller, Cleveland Heights Cum Laude

Eleni Packis, Westlake

Summa Cum Laude with Honors in Public Affairs with Distinction in Public Affairs

Athena Christina Patitsas, Columbus

Alexander Nicholas Rhodes, Columbus with Honors in Public Affairs

Emily Mae Saleme, Columbus Summa Cum Laude

with Honors in Public Δffairs

Sarah Souders, Canton, MI Summa Cum Laude

with Distinction in Public Affairs

William Carl Thornton, Loveland Maana Cum Laude with Honors in Public Affairs

Sara Elizabeth Trenor, Belle Center Maana Cum Laude

Kacie Lynn Ziemann, Chicago, IL

#### College of Public Health

Dean: William J. Martin II

#### Bachelor of Science in Public Health

Samar Hasna Ahmad, Mason Maana Cum Laude

Hannah Nicole Amick, Chagrin Falls Sarah Jessica Angle, Columbus Cum Laude

Sana Raisa Asad, Dublin Magna Cum Laude with Honors in Public Health

MiChaela Marie Barker, East Lansing, MI Rachel Christine Besse, Mason

Heather Robyn Boike, West Palm Beach, FL Maana Cum Laude

Margaret Holley Brim, Pickerington

Natalie Christine Brooks, London Cum Laude

Brittany Diane Carter, Hilliard Magna Cum Laude

Matthew Joseph Cefalu, Green

Summa Cum Laude Jennifer Choe, Sunbury

Magna Cum Laude Bridget Mary Cook, Shaker Heights

Magna Cum Laude

Taylor A. Davis, Geneva Cum Laude

Grace Catherine Dolan, Loveland Madeline Grace Drenkhan, Bay Village Magna Cum Laude

with Honors in Public Health Mikafui Dzotsi, London, UK Manal El Hayba, Morocco

Cum Laude

Melissa Katherine Eperjesi, Poland Maana Cum Laude

Julia Finn, Broadview Heights Gwyneth Elizabeth Frederick, East Aurora, NY Sarah Lynn Gilbert, Pickerington Cum Laude

Jaclynn Kay Grayson, Sagamore Hills Cum Laude

Alicia Nicole Hack, Pickerington Anna Marie Hammelrath, Cincinnati

Sarah Elizabeth Heilman, Kenton

Cum Laude

Nahiha Islam Centerville Summa Cum Laude

with Honors in Public Health

with Honors Research Distinction in Public Health

Mary Grace Kaeding, Wilmington, DE Summa Cum Laude

Melat Girma Kassahun, Columbus Sumeet Prakash Kotwal, Columbus Vinava Mythili Krishnaswamy, Dublin Kelsey Dean Lance, Gahanna Mohamed Amine Lehachi, Columbus Deia Lewis, Columbus

Maana Cum Laude Kaela Marie Lewis, Dayton

Cum Laude Emily Grace Maneyal, West Unity Maana Cum Laude

Natalie Claire Meeks, Mentor

Emma Jane Meersman, Mount Prospect, IL

Maana Cum Laude Amber Nichole Moore, Wellston

Vikas Munjal, Fords, NJ Cum Laud

Nirupama Muralidharan, Cleveland Summa Cum Laude

Alexander James Northrop, Lakewood Summa Cum Laude

with Honors in Public Health with Honors Research Distinction in Public Health

Joshua Chigozie Ogbuefi, Atlanta, GA Magna Cum Laude

Rachel Ashlynn Parker, Minford Grace Margaret Powers, Lakewood

Savannah Mackenzie Renshaw, Dayton Cum Laude

Luiza Leite Reopell, Dublin Cum Laude

Abigail Catherine Rieger, Cincinnati Summa Cum Laude with Honors in Public Health

Chantal Chakira Ross, Richmond Heights Cum Laude

Jordan Russell Royster, Williamston, MI Maana Cum Laude

with Research Distinction Jennifer Rose Rudish, Lynbrook, NY

Leah Marie Sadinski, Tallmadge Magna Cum Laude

Meera Sheth Sample, Xenia

Brianne Elizabeth Schell, Columbus Cum Laude

Hanna Marie Schlaack, Sharonville

Mackenzie Marie Schumaker, Aurora

Maana Cum Laude

Reginald Bryant Scott, Charleston, SC Cassie Lyn Shankland, Marietta

Maana Cum Laude Whitney Ann Smith, Kalida

Shea Madison Smoske, Chardon Maana Cum Laude

Morgan Michael Spahnie, Brunswick Magna Cum Laude with Honors in Public Health

Amelia M. Staats, Granville Cum Lauda

Alexa Zofia Sulewski, Powell Summa Cum Laude

Connor Albert Super, Troy Alexis Patricia Tisbo, Barrington, IL Maana Cum Laude

Megan Elizabeth Ule, Mentor Cum Laude

Jade Renee Worley, Loveland Cum Laude

Ryan Andrew Yoder, Uniontown with Research Distinction in Public Health

Samira Yusuf, Dublin

Gregory Kenneth Zane, Cheshire, CT Rachel Marie Zbiegien, Mayfield Village Summa Cum Laude

Laura Elizabeth Zdon, Madison, CT

# College of Social Work

Dean: Thomas K. Gregoire

#### Bachelor of Science in Social Work

Sena Albash, Columbus Summa Cum Laude

Anna Nicole Allen, Mansfield Tahtianna Alston, Dayton Vanessa Altman, Columbus Magna Cum Laude

Ines Amer-Yahia, Lewis Center Jennifer Lynne Anahata, Gahanna

Summa Cum Laude Liana May Argabrite, Wooster Cum Laude

Andrew Alan Armstrong, Mansfield Amanda Marie Aten, Sycamore Rvan David Baldridge, Hilliard Paige Jordan Barker, Sidney Cum Laude

Rachel Elizabeth Barnitz, Chillicothe Magna Cum Laude

Kassidy Lynette Barrett, Columbus Elisha Joel Beachy, Plain City Summa Cum Laude

Kyla Catherine Beecham, Toledo Sherri M. Behr, Springfield Summa Cum Laude

Joshua Michael Belcher, Alexandria Maana Cum Laude

Alyssa Christine Bell, Ashville Magna Cum Laude

Alyssa C. Bennett, Columbus Molly Anne Black, Dublin Erin Elizabeth Bland, Dublin Cherri N. Bott, Columbus Krimson Nicole Bowen, Marysville

Magna Cum Laude Anna Melissa Bowersox, Columbus

Summa Cum Laude Malissa Boyd, Mansfield Rebecca Rose Bradley, Cincinnati

Cum Laude with Honors Research Distinction in Social Work

Morgan Ashley Brenner, Columbus Cum Laude

with Honors Research Distinction in Social Work

Grace Hutton Brown, Cincinnati Cum Laude

Erica C. Bruinooge, Columbus

Emily Catherine Buist, Ottawa Heidi J. Burkhart, Croton Justin McKinley Carter, Toledo Heather Rose Casperson, Canal Winchester Susan Lynn Cave, Circleville Summa Cum Laude Kelly Elizabeth Chadwell, Worthington

Summa Cum Laude

Jeniffer De Chavez Christian, Mansfield

Jeniffer De Chavez Christian, Mansfield Magna Cum Laude

Emily Nicole Church, Springfield Magna Cum Laude Kelly Anne Cohen, Buffalo, NY

Summa Cum Laude with Honors Research Distinction in Social Work

with Honors Research Distinction in Social Wo Dy'sha Cole, Columbus Cum Laude

Latia D'Lynn Collins, Columbus Allison Suzanne Combs, Canal Winchester Cum Laude Candace LaRae Cooper, Toledo

with Honors Research Distinction in Social Work Lauren E. Cooper, Delaware

James Orlandon Costilo, Delaware

Magna Cum Laude

Alissa Athene Cox. Lima

Abigail Rose Coyle, Oakwood Magna Cum Laude Haley Michelle Crook, Urbana

Cum Laude

Cum Laude Mallorie E. Davis, Columbus

Cum Laude
Laura Ann Dawson Walker, Mansfield
Haley Nicole Dicus, Jackson

Haley Nicole Dicus, Jackson

Cum Laude

Jeanne M. Doan, Columbus

Kyrie Marie Dull, Columbus

Magna Cum Laude

Jason Lynn Eicher, Gambier Summa Cum Laude Ava N. Eisele, Westerville

Magna Cum Laude Brooke Halligan Epstein, Timonium, MD

Magna Cum Laude with Honors Research Distinction in Social Work Karen Fallen, Elizabethtown, KY

Magna Cum Laude Marqaret Elizabeth Figliomeni, Sylvania

Cum Laude
Caroline Rose Filbrun, Oakwood

Summa Cum Laude
Jennifer Kristin Garbin, Delaware
Summa Cum Laude

Emily Gabrielle Gehring, Louisville Colton Jack Genter, Mansfield Ciara Kristan Gibbs, Worthington Magna Cum Laude

Melody Marie Gibson, Delphos Paige Mariah Gillam, London Megan Carol Gillespie, London Marta Susan Goodrich, Worthington Mariah Ann Gorrell, Mansfield Ashley Brianne Gott, Wellington Elizabeth Joyce Green, Columbus Com Londe

Katelynn Nicole Grothjan, Lima Holly M. Grover, Heath Magna Cum Laude

Jasmin Leigh Guerrero, Spencerville

Kaela Reed Haines, Raleigh, NC Catherine Elaine Hall, West Jefferson

Erin Kendall Hampton, Findlay Katelyn Renee Hanneman, Ashville Summa Cum Laude

Amanda Kathryn Hannum, Columbus Magna Cum Laude

Rhoda Wyn Hansen, Grandview Heights Magna Cum Laude Adrienne N. Harmon, Lima

Adrienne N. Harmon, Lima Chelsea Lynn Harpool, Orlando, FL Megan Harris, Grove City Summa Cum Laude

Hannah Harter, Saratoga, California

Meredith Grace Hartwell, Chesterville Magna Cum Laude

Lynnzie J. Haynes, Marion Allison Lee Hebert, Cincinnati Cum Laude

Esther Anna Henry, Columbus Magna Cum Laude

Lauren McKenzie Hitchens, Chillicothe Laura Ann Hodakievic, Parma Caitlynn Moree Holobaugh, Lima Kyra Adia Howard, Dayton Brandon Michael Howell, Lima Michael Huff, Euclid Maxwell Elliott Hughes, Westerville Josee Taylor Jenkins, Grove City Limara Rose Jett, Lima

Eric Lamar Johnson, Columbus Lillian Rose Jones, Lima

Shannon Michelle Justice, Chillicothe Magna Cum Laude

Rachel Irene Kaldor, Columbus Emily Ashton Keckler, Ada Cum Laude

Kelsey Renee Keesecker, Melbourne, FL

Brandi Nicole Kerby, Lima Gloria Kim, Columbus

Summa Cum Laude Cameron Jo King, New Albany Megan Ann Kochheiser, Dublin

Summa Cum Laude

Alison Jannette Koenig, New Albany

Cum Laude

Palma Ann Kollar, Howard Kecia Marie Kramer, Elida Lindsey R. Kuhns, Lima Rebecca Anne Lamp, Mansfield

Summa Cum Laude Alexis Mae Lang, Danville Christy ann Borja Lawson, Columbus Leigh Ashley Lehman, Lima Allison Amanda Loeber, Mansfield

Cum Laude
Alex Miguel Lopez, Commercial Point
Katelynn Elizabeth Lyon, Haslett, MI
Magna Cum Laude

Austin Maconnel Mabe, Lexington Jennifer L. Machmer, Zanesville

Kara Jo Mahaffey, Dublin

Michelle Elise Marein, Auburn
Cum Laude

Drew Strickland Marks, Mason

Conrado Augustine Martin, Jr., Westerville Erica Elain Martin, Zanesville

Sandra Nohemi Martinez, Hilliard Magna Cum Laude

Sarah Mazouz, Hilliard

Cum Laude

Kelly Michelle McClernon, Worthington Magna Cum Laude

Jessica Rardin McConnell, Delaware Summa Cum Laude

Rebecca Jean McDowell, Minneapolis, MN Summa Cum Laude

Ryann Nicole McFarland, Newark Linnea Kirsten Mead, Dublin Cum Laude

Monica Sue Medley, Mansfield Rebecca Lynn Melnick, Portage, MI Cum Laude

Emily Ann Merickel, Gahanna

with Honors Research Distinction in Social Work

Kaitlyn Nicole Merringer, Reynoldsburg Rozzi Joseph Messina II, Newark Summa Cum Laude

Ashley Nicole Miller, Fredericktown Kayla Mackenzie Miller, Greenville

Kayla Marie Miller, Delphos

Paul David Miller, Ashland

Logan C. Mitchell, Dublin Zahra Abdulkadir Mohamed, Galloway Magna Cum Laude

Sarah E. Moore, Circleville Molly Ann Morehouse, Marengo

Summa Cum Laude

Abby Elizabeth Moretti, Columbus

Magna Cum Laude

Emily Elizabeth Morgan, Dublin Bridget Metzger Murphy, Columbus Magna Cum Laude

Alexis Nicole Myers, Youngstown

Ashley H. Neville, Cambridge Sarah Marie Newhard, Reynoldsburg Mairisha Marie Nunamaker, Columbus Cum Laude

Jessica Renee Otting, Minster
Tainesha Lashay Owens, Columbus
Joshua Allen Palmer, Lima
Jennifer Peddicord, Westerville
Kendell Noelle Gueen, Marion
Kristin Beth Queen, Columbus
Alexsius Alexsandra Ragland, Dayton
Grace Hunter Rea, Hilliard
Stephanie Ashley Reese, Bremerton, WA
Allison Marjorie Rife, Washington Court House
Adam Anthony Rito, North Royalton
Ben Douglas Robinson, Heath
Magna Cum Laude

Lexxus Shalynn Robinson, Columbus

Souhaila Rtoubi, Larache, Morocco Nancy Ruiz-Chagolla, Columbus Molly Anne Schell, Johnstown Becca Rae Schlumbohm, Pandora Emily Alena Schmucker, Louisville Cum Laude

Ashley Renee Schwartz, Kenton Taylor Anne Scribner, Toledo Summa Cum Laude

Michele Seiter, Mansfield Rebecca Ann Serfozo, Lorain Tempest Storm Sexton, Nova Kylie Shaffery, Pickerington Magna Cum Laude

Catherine Elaine Sheldon, Columbus Alex Teizo Shields, Alliance Ryan Matthew Shock, Hebron

Cum Laude Hannah Elizabeth Shryock, Sunbury

Cory Alexander Slack, Cardington Rachel Elizabeth Smith, West Chester Alena Marie Southwick, Powell

Amber Lynnae Dawn Spriggs, Grove City

Leisha Nicole Stainer, Columbus Cassandra Lynn Stechschulte, Columbus Grove

Lindsey Marie Steele, Cincinnati Geiry Sterling, Miami, FL Natalie Elaine Stewart, Owensboro, KY Magna Cum Laude

Stacey Nicole Stewart, Pataskala Morgan Paige Stiffler, Sidney Megan Elizabeth Straw, Marysville Magna Cum Laude

Hillary Dawn Taylor, Crooksville Lexas Brielle Teague, Columbus Magna Cum Laude

Nyomi Troy Thompson, Virginia Beach, VA Beth Moore Tjoland, Virginia Beach, VA Maana Cum Laude

Kayla Tomak, Macedonia

Tyler Steven Treese, Delaware

Kapreisha D. Tucker, Columbus Sarah Anastasia Turcu, Chagrin Falls Magna Cum Laude

Paige Nicole Turner, Johnstown Magna Cum Laude

Dyarra Marie Twitty, Galloway Alisha Ann Valenti, Lima Megan Amber Vance, Wadsworth Summa Cum Laude

Olivia Rose Vansky, Hilliard Cum Laude

Samantha Marie Veres, North Royalton Gabriella Laura Volker, Worthington Cum Laude

Jade Weinstock, Zanesville Ellen Claire Williams, Westerville Taylor Nicole Williamson, Continental Alyssa Cheri Wischmann, Los Angeles, CA

Cum Laude with Honors Research Distinction in Social Work David W. Withers. Pataskala

Cara Jo Wolfgram Evans, Hilliard

Summa Cum Laude

Isabella Worden, Wapakoneta

Jennifer Lee Workman, Columbus Breanna Seque IIa Worthy, Toledo

# College of Veterinary Medicine

Dean: Rustin M. Moore

#### **Doctor of Veterinary Medicine**

Rebecca N. Aguilar, Warren, NJ B.S. (Rutgers University)

Ann Marie Ascot, Washington, NJ B.S. (Salisbury State University)

Michele M. Awad-Morris, Canfield B.S. (Youngstown State University) Summa Cum Laude

Katherine Logan Backus, Dublin B.S.Nutrition, B.S.

Alexandria Lynne Barry, Kirtland

Kristen Alise Bartholomew, Oswego, NY B.S.Agr.

Gary James Beall, Springboro B.S.Bus.Adm. (University of Tennessee)

Alexandra Nicole Beery, Medina B.S. (The University of Findlay)

Timothy Joseph Bell, Elbridge, NY B.S. (Siena College)

Emily Sarah Benner, Mifflintown, PA B.S. (Pennsylvania State University)

Jessica Jeanette Bittner, Franklin, PA B.S.Agr.

Kyle Reed Bohland, Fremont B.A. (University of Akron)

Jenna Rose Bonfiglio, Twinsburg

Erica Verona Bono, Clarkston, MI B.S. (Oakland University)

Christine Bradley, Towson, MD B.S. (University of Maryland) M.P.S. (University of Miami)

Timothy Eavenson Burdsall, Grafton, MA B.S. (University of Massachusetts)

Dylan Logan Burroughs, Cincinnati B.A., B.S. (University of Cincinnati)

Erin Joy Burwinkel, Cincinnati B.S. (University of Cincinnati)

Emily Marie Byers, Enon Valley, PA B.S. (Allegheny College)

Rachael Yate Camiener, Solon B.S. (University of Michigan) Mary Elizabeth Carter, Hudson B.A.

Andrea Bermudez Caspary, Tallahassee, FL B.S. (Florida State University)

Abigail Lynn Cline, Ravenna B.A. (Hiram College)

David Scott Conway, Wickliffe B.S. (Miami University)

Emily Cosentino, Avon Lake B.S. (Kent State University)

Jennifer Lynn Croghan, Kingston B.A. (Ohio Dominican University)

Kimberly Rose Cutshall, Avon, IN B.S. (Otterbein University)

Traci Marie Davis, Cortland B.S. (California University of Pennsylvania)

Danielle Lynne DeGrendel, Dublin

Alexander Paul Diedrich, Oxford, MI B.S. (Michigan State University)

Katelyn Marie Doran, Granville B.S. (Berry College)

Maura Drnevich, Rochester, NY B.S. (Cornell University) B.F.A. (Rochester Institute of Technology) M.S. (University of Wisconsin)

Carolina Beatriz Dwyer, Santiago, Chile

Briell M. Dzierga, Adams, MA B.S. (University of Rhode Island)

Morgan Elser, Chambersburg, PA B.S. (Northeastern University)

Elijah Seth Ernst, Hodgenville, KY B.S. (Western Kentucky University)

Stacy Lynn Faiola, Green R S.Agr.

Tyler Alan Fields, Marion B.S. (The University of Findlay)

Sarah Kathryn Finney, Marshallville B.S.Agr., M.S.

David Michael Foley, Rochester, NY B.S. (King's College)

Bruce Arthur Frederick, Zelienople, PA B.S. (Pennsylvania State University)

Deanna Leigh Fredriks, Painesville B.S.Agr.

Megan Elizabeth Freeman, Columbus B.S. (North Carolina State University)

Kristopher Galang, Los Angeles, CA A.A., A.S. (Pierce College) JoEllen Rebecca Galligan, Burlingame, CA B.S. (Stevens Institute of Technology)

Jennifer Anne Geisler, Pittsburgh, PA B.S. (Duquesne University)

Alexandra Anne Glenn, Santa Fe Springs, CA B.S. (California State Polytechnic University)

Melissa Elaine Glick, Wooster B.A. (College of Wooster)

Taylor Brooke Goslin, Brewster, NY B.S. (Northwestern University)

Hillary Hammond, Katy, TX B.S. (Texas A&M University) Magna Cum Laude

Christina Teresa Hammons, Boise, ID B.S. (University of Idaho)

Keirsten A. Harris, Bloomingdale B.S.Agr.

Olivia Claire Hegedus, Perrysburg Bachelor's (University of Akron)

Paige Hicks, Hudson

Elspeth Mitchell Holder, Tallahassee, FL B.A. (Williams College)

Kaitlin Rose Houdek, Lake Leelanau, MI B.S. (Otterbein University)

Elizabeth Anne Hunsche, Cincinnati B.S.

Dakota Korbin Hutchinson, Rector, PA B.S. (Saint Vincent College)

Rebecca Eleanore Ita, Medina B.S., M.Pub.Hlth.

Melissa Anne Jedlicka, Kirtland Hills B.S., M.S. (Cleveland State University)

Brianna Ashley Jordan, Attica B.S.Agr.

Hannah Jane Kester, Ravenna B.S.Agr.

Kelsey Renee Kimmell, Clearville, PA

Sarah Elizabeth Klawiter, Garner, NC B.S. (North Carolina State University)

Sarah Kooy, Jonesborough, TN B.S. (Furman University)

Andrew Charles Koudelka, Aurora B.A. (Hiram College)

Samarah Marie LaFoca, West Pittston, PA B.S. (Pennsylvania State University)

Blake Erin Lambert, New Albany B.S.Agr. Misty Leigh Lambert, Mansfield B.S. (Ashland University)

Danielle Mae Lehman, Bloomsburg, PA B.S. (Pennsylvania State University)

Yullee Lih-Yih Lin, Walnut, CA B.S. (University of California)

Sarah Christy Linn, Grafton B.S. (Muskingum University)

Jessica Liskay, Cleveland B.S. (University of Toledo) Magna Cum Laude

Annaliese Haftman Lorenzen, Advance, NC B.A. (University of North Carolina) M.Pub.Hlth.

Dayna Marie Love, Canfield B.S. (Otterbein University)

Marisa Maglaty, Lansdale, PA B.A. (Hamilton College)

Catherine Maguire, Denver, CO B.S. (Montana State University)

Payton Mann, Cass, WV

Hannah Signor Manning, Apalachin, NY B.S. (State University of New York)

Ashley Ann Maragas, Mogadore B.S. (West Virginia University)

Kalie Renee Marshall, North Royalton B.S. (Seton Hall University)

Elise Martens, Troy, MI B.S. (Michigan State University)

Christopher Alan Martin, Warren B.S.

Karalynn Lucille Mastin, Rumney, NH B.S. (Houghton College)

Jane Elizabeth Mellencamp, Seymour, IN B.S. (Purdue University)

Eelkje Rixt Miedema, Circleville B.S.Agr.

Christina Marie Miller, Pittsburgh, PA B.S. (Slippery Rock University)

Steven Christopher Miller, Cortland B.S. (Ohio University)

D'Ana Maria Milo, Oceanside, NY B.S. (Adelphi University)

Jillian Spencer Minuto, Munhall, PA B.S. (University of Vermont)

Roya Siobhan Mohammadpour, Highland Heights B.S. (Lake Erie College)

Chelsea Mursch, Scranton, PA B.S. (Moravian College) Kamilah Aayesha Mustapha, West Union B.S. (Alice Lloyd College)

Alicia Myatt, Hinckley B.S. (Ashland University)

Alexandra Myhal, Parma Heights B.A. (University of Minnesota)

Bryn McKinley Nicholl, Chagrin Falls B.S. (Tulane University)

Courtney Marie Norjen, Ellicott City, MD B.S. (Pennsylvania State University)

Elizabeth Ann Nutile, Revere, MA B.S. (University of Massachusetts Amherst)

Cassandra O'Connor, Buffalo, NY B.S. (Nazareth College of Rochester)

John Francis O'Day, Auburn, MA Magna Cum Laude

Erika Osborne, Sharon Springs, NY B.S. (State University of New York College at Cortland)

Ruben Dario Pabon Padin, San Juan, Puerto Rico B.S. (University of Central Florida)

Sabrina Palm, Scaggsville, MD B.S. (University of Maryland)

Nicole Elizabeth Patton, Akron B.S. (University of Akron)

Lauren Pepin, Swartz Creek, MI B.S. (University of Michigan)

Joanna Mary Pogue, Cincinnati

Summa Cum Laude

Kendall Polansky, Little Rock, AR

B.S. (University of Arkansas)

Gina Marie Porelli, Bronx, NY
B.S. (Sacred Heart University)

Roxanne Lester Reiter, Cincinnati B.S. (University of Puget Sound)

Alec Bela Repasy, Long Grove, IL B.S. (University of Wisconsin)

Lauren Riazzi, Dayton B.S. (University of Cincinnati)

Paulo Andres Rivera, Manati, Puerto Rico B.S. (University of Puerto Rico)

Randy Lawrence Rock, Cleveland

B.A. (Kenyon College)
Emily Roth, Columbus
B.S. (Bethany College)

Chelsea Ruzzo, Colchester, CT B.S. (Becker College) Kara Schmidt, Waterville B.S. (The University of Findlay)

Arielle Kristine Schoenlein, Douglassville, PA B.S. (Kutztown University of Pennsylvania)

Jenette Lynn Seal, West Mansfield B.S. (Saint Mary-of-the-Woods College)

Kristy Lee Shaw, Logan

Deanna Marie Shenk, Winchester, VA B.S. (Virginia Polytechnic Institute and State University)

Taylor Nichole Sherrod, Massillon B.S. (Walsh University) Summa Cum Laude

Melissa Danielle Sigg, Swanton B.S. (The University of Findlay)

Erica Hayward Skillman, Ann Arbor, MI B.A. (College of Wooster)

Kacey Smith, Beachwood B.A. (Bard College) Magna Cum Laude

Drew Allen Sollenberger, Elizabethtown, PA B.S. (Virginia Tech)

Jacqueline Marie Spearman, Novi, MI B.S. (Saginaw Valley State University)

Kianna Marie Spencer, Dallas, PA B.S. (Pennsylvania State University)

Cecelia Ann Staley, North Canton B.S. (Otterbein University)

Corissa Ann Steimling, Gettysburg, PA B.S. (Pennsylvania State University)

Chelsea Lauren Stern, Mount Kisco, NY B.S. (State University of New York)

Erin Leigh Stitts, Twinsburg B.S.Agr.

Amanda Leigh Stump, Kingston B.S.Agr.

Jenny Tan, San Jose, CA B.S. (University of California)

Laura Marie Taylor, Oregonia B.S. (Pennsylvania State University)

Noel Kelly Vezzi, Crown Point, NY B.S. (University of Rhode Island)

George Bernard Voros, Stow B.S. (University of Akron)

Sarah Waibel, Cuyahoga Falls B.S. (The University of Findlay) Caitlin Wamelink, Cleveland Heights B.S. (Tulane University of Louisiana)

Amanda Lung Wang, Palo Alto, CA B.S. (University of California)

Nathan Dale Ward, Jerusalem B.S.Agr.

Chase Andrew Watiker, Zanesville B.S.Agr.

James Matthew Weaver, Wilmington, NC B.S. (University of North Carolina)

Melinda May Weaver, Carrollton B.S. (Wilmington College)

Cally Lee Webster, Roseville B.S. (Muskingham University)

Vanessa Renee Weidner, Greenville B.S. (Eastern Michigan University)

Skylar Ann Welti, Hartland, MI

Melissa Danielle Wolf, Richmond Hill, NY B.S. (Sacred Heart University)

Kristen Lynn Wright, Jewett B.S.Agr.

Ryan Alexander Yanez, Columbus B.S.Agr.

Sarah Marie Young, Cincinnati B.S. (Wilmington College)

Kristin Ann Zabrecky, Cincinnati B.S. (Purdue University)

# Transition Options in Postsecondary Settings Program

#### **Certificate of Completion**

Natalie Wells Davis, Upper Arlington James Patrick McNary, Mechanicsburg Megan Marie Ryan, Columbus

# Candidates to be Commissioned in the Armed Forces

# **United States Army**

Second Lieutenant United States Army

Armor Branch
Clarissa Marie Michaud

Aviation

Austin Wayne Evans

Corps of Engineers Matthew Thomas Morissette

Field Artillery Andrew Elliott

Infantry

Clay Thomas Dorman Andrew David Hater Kyle John Herschel Anthony Michael Scinta Brett James Wisti Military Police James Elmer Reinhart

Nurse Corps

Meredith Nicole Rowe Lucy Marie Wagner

Ordnance

Gar Devaux Chatain James Clayton Robertson

Quartermaster Corps Ryan James Fowler

Signal Corps Michaela Joan Gennuso

Transportation Corps
Kyle Edward Mullins
Nicole Catherine Santos

Veterinary Corps Madison Lynn Lambkin

Second Lieutenant United States Army Reserve

Medical Services Corps Kayla Marie Konczos

**Quartermaster Corps** Griffin Christopher Stanley

<sup>\*</sup>denotes Distinguished Military Graduate \*\*denotes Distinguished Air Force Graduate \*\*\*denotes Distinguished Naval Graduate

#### Second Lieutenant United States Army National Guard

# Air Defense Artillery DeMario Imas Palladino

# **Aviation**

Nicholas Garrett Brumfield

# Corps of Engineers

Ryan Connor Ho

#### Field Artillery

Nathan Lilburn Carroll

#### Military Intelligence

Erica Lindsey Coffee Danny Tan

#### **United State Air Force**

#### Second Lieutenant United States Air Force

Maxwell Howard Childs Adam Philip Circione Mary Lou French Nathan Edward Herrmann Austin Kelly Jeremy Richard Lott Haven Noble Matthew Joseph Ovnic Donato Ponzi "Cristian Scott Turain Jacob Alexander Wright

#### **United State Navy**

#### Ensign United States Navy

Adam Michael Agosta Savannah Renee Boleky Ryan Christopher Buck Daniel Joseph Butz Skyler William Dierker Austin Michael Green Craig Louis Heim \*\*\*Christina Kay Howald Ty Alexander Rummelhoff DiMia Nicole Spivey Adam Dee Sturgeon Victoria Ann Weckenbrock Paul Anthony Williams

#### Second Lieutenant United States Marine Corps

Joshua Matthew Laramie Ian Allister Murray

#### **Graduates with Honors**

Criteria for graduating with honors are listed below. Grade-point averages (GPA) are based on the student's penultimate semester.

**Summa Cum Laude** designates those who earned a 3.9 GPA or better.

**Magna Cum Laude** designates those who earned a 3.7 GPA or better.

**Cum Laude** designates those who earned a 3.5 GPA or better

## With Honors in the Arts and Sciences

requires successful completion of the Arts and Sciences Honors Contract and graduation with a 3.4 GPA or better.

# With Honors in Business/Accounting requires successful completion of a

prescribed honors program of study and graduation with a 3.5 GPA or better.

# With Honors in Education and Human Ecology requires successful completion of an honors experience contract and graduation with a 3.4 GPA or better.

With Honors in Engineering requires successful completion of an honors experience contract and graduation with a 3.4 GPA or better.

With Honors in Medicine denotes successful fulfillment of the College of Medicine Honors Program tenets and a 3.4 cumulative GPA or better.

With Honors in Public Affairs requires successful completion of an honors experience contract and graduation with a 3.4 GPA or better.

With Honors in Public Health requires successful completion of a presribed honors program of study and graduation with a 3.5 GPA or better.

With Distinction requires successful completion of an undergraduate thesis and a 3.4 GPA or better.