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## **Biological Sciences**

The biological sciences program provides broad interdisciplinary graduate training in biology leading to the Master of Science degree. This interdisciplinary program utilizes the faculty, facilities, and courses of Microbiology, Physiology, Plant Biology, and Zoology. The program is designed for those students who desire a broad-based curriculum rather than an in-depth program of study in only one of the biological sciences.

## Master of Science (M.S.) in Biological Sciences

#### **Requirements for Admission**

All applicants must submit an application to the biological sciences program. Applicants must meet the minimal requirements of the Graduate School before being considered for admission to Biological Sciences. A completed application includes the program application form, three letters of recommendation, and transcripts of all previous college credit.

This program requires a nonrefundable \$65 application fee that must be submitted with the application for Admissions to Graduate Study in Biological Sciences. Applicants must pay this fee by credit card.

In addition to Graduate School admission requirements, applicants must hold a bachelor's degree in a life science discipline. Specific options and concentrations may have additional prerequisites, as noted below.

Application forms are available online at gradschool.siu.edu/applygrad.

### **Thesis Option**

#### **Admission Requirements**

Thirty-seven credit hours of undergraduate courses distributed among any four of the biological science areas (plant biology, microbiology, physiology and zoology): organic chemistry with zoology; laboratory; physics; statistics. Applicants deficient in these background areas may be admitted, but any deficiency must be successfully completed before the third semester of the registration program.

#### Advisement

No later than the end of the first semester of registration in the program, the student must arrange with a faculty member in one of the four biological science programs to serve as the research adviser. Following selection and approval of the adviser, an advisory committee is to be recommended to the director of the Biological Sciences Program for approval by the Dean of the Graduate School. This committee shall consist of at least three members, each from a different biological science program, with the research advisor serving as chair. A program of course work must be approved by the advisory committee and filed with the director no later than the eighth week of the second semester of registration in the program. Any deviation from the course work program during the student's tenure must be approved by the advisory committee and filed with the director. A research proposal for the thesis must be approved by the advisory committee and filed with the director no later than the eight the end of the second semester of registration.

#### **Graduation Requirements**

A total of 30 credit hours of 500-level courses are required, with the following provisions:

- 1. A minimum of 21 credit hours of formal graded courses in the biological science programs is required with no less than six credit hours coming from each of four of the biological science program.
- 2. At least one semester of seminar in two of the four biological science programs must be attended for credit.
- 3. An overall 3.0 grade point average (A = 4.0) must be maintained with no course in which the grade is less than a *C* counting toward the degree requirements.
- 4. A thesis embodying original research is required and may be counted for not less than three nor more than six hours of credit.
- 5. A final oral examination is required consisting of a public presentation of the thesis research and a closed session of inquiry by the student's research and advisory committee.

#### **Non-Thesis Option**

#### **Admission Requirements**

Thirty-seven credit hours of undergraduate courses distributed among any four of the biological science areas (plant biology, microbiology, physiology, and zoology); organic chemistry with laboratory; physics; statistics. Applicants deficient in these background areas may be admitted, but any deficiency must be successfully completed before the third semester of registration in the program.

#### Advisement

No later than the end of the first semester of registration in the program, the student must arrange with a faculty member in one of the four biological science programs to serve as the research adviser. Following selection and approval of the adviser, an advisory committee is to be recommended to the director of the Biological Sciences Program for approval by the Dean of the Graduate School. This committee shall consist of at least three members, each from a different biological science program, with the research advisor serving as chair. A program of course work must be approved by the advisory committee and filed with the director no later than the eighth week of the second semester of registration in the program. Any deviation from the course work program during the student's tenure must be approved by the advisory committee and filed with the director. A proposal for the research paper must be approved by the advisory committee and filed with the director no later than the eight the end of the second semester of registration.

#### **Graduation Requirements**

A total of 40 credit hours of 500-level courses are required, with the following provisions:

- 1. A minimum of 26 credit hours of formal graded courses in the biological sciences required with no less than eight credit hours including one 500-level laboratory course in each of the biological sciences programs.
- 2. At least one semester of seminar in each of three of the biological science programs must be attended for credit.
- 3. An overall 3.0 grade point average (A = 4.0) must be maintained with no course in which the grade is less than a *C* counting toward the degree requirements.
- 4. A research paper is required demonstrating the ability to collect and analyze data and to report interpreted results in a scientific manner. A library research problem is acceptable, but must include an original contribution of analysis and interpretation. No less than three nor more than six semester hours of "Research" may be counted for credit in meeting requirements. (Only those courses listed as "Individual Research", Introduction to Research", etc. may be taken for credit. "Thesis Research" may not be used for this requirement.)
- 5. A final oral examination is required, consisting of two parts:
  - a public presentation of the research paper

• a closed session of inquiry by the student's Research and Advisory Committee.

## **Biological Sciences Courses**

**BIOL409 - Developmental Biology** Basic principles and processes of embryonic development including contemporary research on molecular, cellular and genetic mechanisms of differentiation and morphogenesis; selected plants and invertebrate and vertebrate animals will be considered. Prerequisite: BIOL 305 with a grade of C- or better. Credit Hours: 3

**BIOL450 - Biomedical Genetics** The basic principles of human genetics, from detailed treatment of DNA structure and function to an overview of the human genome and cancer genetics will be covered with emphasis on implications to medical practice. Other major topics include genetic variation, patterns of inheritance, the human genome, genetic screening and risk assessment, and treatment of genetic disorders. Prerequisite: BIOL 305 with a grade of C- or better. Credit Hours: 3

**BIOL460 - Study Abroad: Biology, Culture, & History of the Yucatan, MX** Course Period: Intersession Study Abroad Course, 9 days (Approx. last two weeks of May). Objective: The objectives of this faculty-led global seminar are to explore the biology, culture, and history of the Yucatan Peninsula of Mexico. Biological exploration will include snorkeling tours of near shore reef diversity, and on land tours of reptile and avian diversity. Exploration of the culture and history of the Yucatan will include tours of Mayan ruins, regional markets, and culinary tours. Credit Hours: 3

**BIOL500 - Contemporary Biology for Teachers** An introduction to fundamental biological concepts. Emphasis is placed on exploring plant and animal model systems using contemporary methodologies. Examples of biological processes will be covered from genomics to ecosystems. Prepares teachers to introduce biological principles and innovative approaches to understanding biological systems in the classroom. Prerequisite: SCI 210A & B or equivalent. Credit Hours: 3

**BIOL501 - Science Communication** Advanced course in Science Communication. Learn skills in written, visual, and oral communication with a focus on translating primary scientific research for broad audiences including the public. Learn about writing, developing, and presenting engaging materials for diverse audiences without sacrificing scientific accuracy. Both formal and informal formats will be examined including primary and popular science literature, mass media, blogs, and policy. Gain skills for effective visual and graphical presentations. Learn strategies for talking science with the public, incorporating strategies from improvisational and public speaking methods, as well as speaking to controversies. Credit Hours: 3

**BIOL507 - Advanced Principles of Ecology** An introduction to the study of interactions between organisms and their environment at the organismal, population, community, and ecosystem levels, presented at the graduate level. Includes discussion of global ecology, biodiversity, and conservation. Prerequisites: BIOL 212 and BIOL 213, or PLB 200, or equivalents. Credit Hours: 3

**BIOL509 - Advanced Developmental Biology** An advanced investigation of the principles and processes of embryonic development including contemporary research on molecular, cellular and genetic mechanisms of differentiation and morphogenesis; selected plants and invertebrate and vertebrate animals will be considered. Prerequisite: BIOL 305 with a grade of C- or better. Credit Hours: 3. Credit Hours: 3

**BIOL550 - Advanced Biomedical Genetics** An advanced introduction to the principles of human genetics, from detailed treatment of DNA structure and function to an overview of the human genome and cancer genetics will be covered with emphasis on implications to medical practice. Other major topics include genetic variation, patterns of inheritance, the human genome, genetic screening and risk assessment, and treatment of genetic disorders. Prerequisite: BIOL 305 with a grade of C- or better. Credit Hours: 3. Credit Hours: 3

**BIOL601 - Continuing Enrollment** For students who have not finished their degree programs and who are in the process of working on their dissertations, thesis, or research paper. The student must have completed a minimum of 24 hours of dissertation research, or the minimum thesis, or research hours

before being eligible to register for this course. Concurrent enrollment in any course is not permissible. Graded S/U. Prerequisite: minimum hours as stated above. Credit Hours: 1

**MEDP400A - MEDPREP Seminar-Orientation** Seminar on social, professional, and scientific issues of interest to students planning a career in medicine or dentistry. Required of first-year MEDPREP participants. Restricted to MEDPREP students. Credit Hours: 1. Credit Hours: 1

**MEDP400B - MEDPREP Seminar-Medical/Dental Seminar** Seminar on social, professional, and scientific issues of interest to students planning a career in medicine or dentistry. Required of first-year MEDPREP participants. Restricted to MEDPREP students. Credit Hours: 1. Credit Hours: 1

**MEDP400C - MEDPREP Seminar-Medical/Dental Seminar II** Seminar on social, professional, and scientific issues of interest to students planning a career in medicine or dentistry. Required of first-year MEDPREP participants. Restricted to MEDPREP students. Must be taken in A,B,C sequence. Mandatory Pass/Fail. Credit Hours: 1

**MEDP401A - Academic Enrichment** Development of skills critical for academic and clinical success in health professions training. Restricted to MEDPREP students. Credit Hours: 1

**MEDP401B - MEDPREP Skills-Prematriculation** Focus on skills critical for academic success for students preparing to enter medical, dental or other health profession schools. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP401C - MEDPREP Skills-Quantitative Skills** Focus on skills critical for academic success in preprofessional and professional training. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP401D - MEDPREP Skills-Problem Solving** Focus on skills critical for academic success in preprofessional and professional training. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP401F - MEDPREP Skills-Critical Reading Skills** Focus on skills critical for academic success in preprofessional and professional training. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP401G - MEDPREP Skills-Critical Reading Skills I** Focus on critical reading skills critical for academic success in health professional career training. Restricted to MEDPREP students. Credit Hours: 1-3. Credit Hours: 1-3

**MEDP401H - MEDPREP Skills-Critical Reading Skills II** Focus on critical reading and textual analysis skills critical for academic success in health professional career training. Restricted to MEDPREP students. Credit hours: 1-3. Credit Hours: 1-3

**MEDP4011 - Career Development Skills** Focus on skills critical for academic success in pre-professional and professional training. Restricted to MEDPREP students. Credit Hours: 1. Credit Hours: 1

**MEDP402A - Behavioral and Social Sciences Applications** Application of topics in psychology, sociology and other social sciences to current societal issues. Research methodologies and critical analysis are emphasized. Includes preparation for MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP402B - MEDPREP Special Problems-Research Seminar** Seminars, workshops, lectures, and field experiences related to preparing the student for medical/dental school and careers in medicine or dentistry. Restricted to MEDPREP students. Credit Hours: 1-2

**MEDP402C - MEDPREP Special Problems-Clinical Experience, mandatory P/F** Seminars, workshops, lectures, and field experiences related to preparing the student for school and careers in medicine/dentistry. Restricted to MEDPREP students. Credit Hours: 1-2

**MEDP402D - MEDPREP Special Problems-Problem-Based Learning (P/F only)** Seminars, workshops, lectures, and field experiences related to preparing the student for medical/dental school and careers in medicine or dentistry. Restricted to MEDPREP students. Credit Hours: 3

**MEDP402E - MEDPREP Special Problems-Independent Readings** Seminars, workshops, lectures, and field experiences related to preparing the student for medical/dental school and careers in medicine or dentistry. Restricted to MEDPREP students. Credit Hours: 1-2

**MEDP402F - MEDPREP Special Problems-Independent Research** Seminars, workshops, lectures, and field experiences related to preparing the student for medical/dental school and careers in medicine or dentistry. Restricted to MEDPREP students. Credit Hours: 1-2

**MEDP403A - MEDPREP Biology Applications-Medical Genetics** Content may be supplemental (to concurrent biological science courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP403B - MEDPREP Medical Pharmacology** Content may be supplemental (to concurrent biological science courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP403C - MEDPREP Biology Applications-Cardiovascular Physiology** Content may be supplemental (to concurrent biological science courses), additional (permitting acceleration) or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP403D - MEDPREP Biology Applications-Embryology** Content may be supplemental (to concurrent biological science courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP403E - MEDPREP Biology Applications-Medical Immunology** Content may be supplemental (to concurrent biological science courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP403F - MEDPREP Biology Applications-Hormonal Regulation** Content may be supplemental (to concurrent biological science courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP403G - MEDPREP Biology Applications-Biology Applications** Content may be supplemental (to concurrent biological science courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-6

**MEDP403H - MEDPREP Biology Applications-Neural Science** Content may be supplemental (to concurrent biological science courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-6

**MEDP403I - MEDPREP Biology Applications-Biology Problem Solving** Content may be supplemental (to concurrent biological science courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP404A - MEDPREP Chemistry Applications-Inorganic Chemistry Applications** Content may be supplemental (to concurrent preprofessional chemistry courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP404B - MEDPREP Chemistry Applications-Inorganic Chemistry (For Dental Students)** Content may be supplemental (to concurrent preprofessional chemistry courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP404C - MEDPREP Chemistry Applications-Organic Chemistry Applications** Content may be supplemental (to concurrent preprofessional chemistry courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP404D - MEDPREP Chemistry Applications-Organic Chemistry for Dental Students** Content may be supplemental (to concurrent preprofessional chemistry courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP404E - Medical Biochemistry** Topics in biological chemistry and biochemistry, with an emphasis on impact of cellular-level biochemistry and metabolic processes on physiological systems, human health and human disease. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP404F - MEDPREP Chemistry Applications-Chemistry Problem Solving** Content may be supplemental (to concurrent preprofessional chemistry courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP405A - MEDPREP Physics Applications** Content may be supplemental (to concurrent preprofessional physics courses), additional (permitting acceleration), or preparational for the MCAT. Restricted to MEDPREP students. Credit Hours: 1-6

**MEDP405B - MEDPREP Physics Applications-Physics Problem Solving** Content may be supplemental (to concurrent preprofessional physics courses), additional (permitting acceleration), or preparational for the MCAT. Restricted to MEDPREP students. Credit Hours: 1-3

**MEDP501C - Quantitative and Analytical Reasoning** This course focuses on quantitative approaches and analytical reasoning needed for graduate and professional school problem solving, and for research data analysis encountered in graduate and professional education. Topics include mathematical problem solving integrating algebraic, geometric, logarithmic and trigonometric methods; applied calculations for medical practice and research. Emphasis is placed on ensuring students have appropriate quantitative reasoning competencies for professional school. Restricted to students enrolled in MEDPREP. Credit Hours: 1-3

**MEDP501D - Problem Based Learning in Medicine** Discussion-based course focusing on understanding of human physiology and biochemistry in the context of medical disease. Using a problem-based learning format, student will work in small groups to investigate simulated patient cases, identify and address learning issues associated with both doctoring and biological science, research physiological and biochemical mechanisms of disease, and present findings in oral and written forms. Credit Hours: 3

**MEDP501E - Colloquium** Seminar course focused on development of career and networking skills critical for success in the health professions. Required for all MEDPREP students enrolled in concurrent master degree programs. Restricted to MEDPREP students. Credit Hours: 1

**MEDP503B - Medical Pharmacology** Content may be supplemental (to concurrent biological science courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students enrolled in Master's level program. Credit Hours: 1-3

**MEDP503E - MEDPREP Medical Immunology** Content may be supplemental (to concurrent biological science courses), additional (permitting acceleration), or preparational for the MCAT/DAT. Restricted to MEDPREP students enrolled in Master's level program. Credit Hours: 1-3

**MEDP503G - Biological Systems and Processes** Course covers major biological systems and processes, with a focus on integration of disciplinary approaches and knowledge in preparation for professional study of medicine. Physiological systems covered include nervous, muscular, endocrine, cardiovascular, respiratory, digestion, renal, immune response, reproduction and embryology; as well as cellular metabolism, molecular biology, biochemistry of the cell, genetics, evolution, microbiology and virology. Research methodologies and data analysis are integral to the presentation of topics, which vary by semester. Restricted to students enrolled in MEDPREP. Credit Hours: 1-3

**MEDP504A - Chemical Systems and Processes** Course covers major chemical systems and processes, with a focus on integration of disciplinary approaches and knowledge in preparation for professional study of medicine. Chemistry topics covered include atomic structure and periodic theory of elements, stoichiometry, chemical bonding, solutions and mixtures, electrochemistry, thermochemistry. Research methodologies and data analysis are integral to the presentation of topics, which vary by semester. Restricted to students enrolled in MEDPREP. Credit Hours: 1-3

**MEDP504C - Organic Chemistry Systems and Processes** Course covers major organic chemistry systems and processes, with a focus on integration of disciplinary approaches and knowledge in preparation for professional study of medicine. Topics covered include structure, bonding and resonance, organic molecules, functional groups, organic reactions, and spectroscopy. Research methodologies and

data analysis are integral to the presentation of topics, which vary by semester. Restricted to students enrolled in MEDPREP. Credit Hours: 1-3

**MEDP504E - Medical Biochemistry** Topics in biological chemistry and biochemistry, with an emphasis on impact of cellular-level biochemistry and metabolic processes on physiological systems, human health and human disease. Restricted to MEDPREP students. Credit Hours: 1-3

### **Biological Sciences Faculty**

Anderson, Frank E., Professor, Ph.D., University of California, Santa Cruz, 1998; 1999. Invertebrates, molecular systematics, molecular evolution.

**Anterola, Aldwin M.,** Associate Professor, Ph.D., Washington State University, 2001; 2005. Metabolic pathways, medicinal compounds, nutraceuticals, biosynthesis of natural products.

**Bastille-Rousseau, Guillaume,** Assistant Professor, Ph.D., Trent University, 2014; 2020. Wildlife, spatial, population, and behavioral ecology.

**Bender, Kelly S.**, Associate Professor, Ph.D., Southern Illinois University Carbondale, 2003. Environmental microbiology; microbes and coal mining waste; biomining of rare Earth elements; small RNA analysis.

**Brown, Jason L.,** Assistant Professor, Ph.D., East Carolina University, 2009; 2016. Integrated ecological, evolutionary, genetic, and geospatial analysis.

**Da Cunha Leme Filho, Jose F.,** Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2020. Controlled environment agriculture, vertical farm, cannabis biology, plant physiology, secondary metabolites, plant biostimulants.

Eichholz, Michael W., Professor, Ph.D., University of Alaska, 1998; 2002. Waterfowl, wetland ecology.

**Fisher, Derek J.**, Associate Professor, Ph.D., University of Pittsburgh, 2006. Bacterial Pathogenesis, bacterial physiology and metabolism, molecular biology, protein phosphorylation and degradation.

**Gage, Karla L.,** Associate Professor, Ph.D., Southern Illinois University Carbondale, 2013; 2015. Weed science, weed ecology, agroecology, integrated pest management, herbicide resistance, invasive species.

Garvey, James E., Professor, Ph.D., Ohio State University, 1997; 2000. Fisheries biology.

**Garcia-Heras, Marie-Sophie,** Assistant Professor, Ph.D., University of Cape Town, 2017; 2025. Conservation biology, ornithology.

**Grundler, Michael C.,** Assistant Professor, Ph.D., University of Michigan, 2020; 2025. Evolutionary biology, herpetology.

**Geisler, J.B. Matthew,** Associate Professor, Ph.D., The Ohio State University, 1999; 2006. Gene expression and protein interaction patterns, mathematical gene modeling, arabidopsis, yeast and drosophila interactomes.

Hamilton-Brehm, Scott D., Assistant Professor, Ph.D., University of Georgia, 2008. Anaerobic and aerobic cultivation of microorganisms, environmental sampling.

**Heist, Edward J.,** Professor, Ph.D., College of William and Mary, 1994; 1998. Population genetics, conservation genetics, fishery management.

Holmes, Iris. Assistant Professor, Ph.D., University of Michigan, 2020; 2025. Host-pathogen interactions, herpetology.

Ibrahim, Kamal, Associate Professor, Ph.D., Cambridge University, 1989; 2001. Population genetics.

**Jayakody, Lahiru N.,** Assistant Professor, Ph.D., Kagoshima University (Japan), 2014; 2019. Biotechnology, molecular biology, metabolic engineering, synthetic microbiology, systems biology.

**Jimenez-Ruiz, F. Agustin,** Associate Professor, Ph.D., University of Nebraska-Lincoln, 2004; 2009. Parasitology.

**Konjufca, Vjollca**, Associate Professor, Ph.D., University of Arkansas Fayetteville, 2002. Immunology and host-pathogen interactions.

Lydy, Michael J., Professor, Ph.D., Ohio State University, 2001. Aquatic toxicology.

**Narr, Charlotte,** Assistant Professor, Ph.D., Trent University, 2016: 2020. Freshwater ecology, ecological stoichiometry, and host-parasite interactions.

**Neubig, Kurt M.**, Associate Professor, Ph.D., University of Florida, 2012; 2015. Plant systematics, phylogenetics, floristics, DNA barcoding and pollination biology.

**Petri, Laís.,** Assistant Professor, Ph.D., University of Michigan, 2023; 2025. Plant community ecology, invasion biology.

**Rader, Bethany**, Associate Professor, Ph.D., University of Oregon, 2006. Beneficial host-microbe interactions, innate immunology, microbial ecology and systems biology.

**Sipes, Sedonia D.,** Associate Professor, Ph.D., Utah State University, 2001; 2001. Plant-insect interactions, evolutionary ecology, chemical ecology, and systematics.

**Weber, Jennifer.,** Assistant Professor, Ph.D., University of CA, Irvine, 2012; 2020. Evolutionary ecology, including breeding system evolution, pollination biology, population genetics and climate change biology.

Whitledge, Gregory, Professor, Ph.D., University of Missouri, 2001; 1995. Fish ecology and management.

**Wood, Andrew J.,** Professor, Ph.D., Purdue University, 1994; 1996. Biotechnology, biochemistry, desiccation, drought, genetics, horticulture, plant physiology, stress.

#### **Emeriti Faculty**

Anthoney, Terence R., Associate Professor, Emeritus, M.D., Ph.D., University of Chicago, 1968, 1975.

Bozzola, John J., Professor, Emeritus, Ph.D., Southern Illinois University Carbondale, 1975; 1983.

Brandon, Ronald A., Professor, Emeritus, Ph.D., University of Illinois, 1962.

Brooks, Marjorie, Associate Professor, Emerita, Ph.D., University of Wyoming, 2003; 2009.

Burr, Brooks M., Professor, Emeritus, Ph.D., University of Illinois, 1977.

Clark, David P., Professor, Emeritus, Ph.D., University of Bristol England, 1976.

Crandall-Stotler, Barbara, Professor, Emerita, Ph.D., University of Cincinnati, 1968; 1970.

Englert, DuWayne C., Professor, Emeritus, Ph.D., Purdue University, 1964.

Feldhamer, George A., Professor, Emeritus, Oregon State University, 1977.

Gibson, David J., Distinguished Professor, Emeritus, Ph.D., University of Wales, 1985; 1992.

Halbrook, Richard S., Associate Professor, Emeritus, Ph.D., Virginia Polytechnic Institute and State University, 1990.

Heidinger, Roy C., Professor, Emeritus, Ph.D., Southern Illinois University, 1970.

King, David, Associate Professor, Emeritus, Ph.D., University of California at San Diego, 1975.

**Kohler, Christopher C.,** Professor, Emeritus, Ph.D., Virginia Polytechnic Institute and State University, 1980.

Krajewski, Carey, Professor, Ph.D., University of Wisconsin, 1988.

Lovvorn, James R., Professor, Ph.D., University of Wisconsin-Madison, 1987.

**Madigan, Michael T.,** Professor and Distinguished Scholar, Emeritus, Ph.D., University of Wisconsin, 1976.

Matten, Lawrence C., Professor, Emeritus, Ph.D., Cornell University, 1965; 1965.

McPherson, John E., Jr., Professor, Emeritus, Ph.D., Michigan State University, 1968.

Mohlenbrock, Robert H., Distinguished Professor, Emeritus, Ph.D., Washington University, 1957; 1957.

Muhlach, William L., Associate Professor, Emeritus, Ph.D., University of Illinois at Chicago, 1986.

**Nickrent, Daniel L.,** Distinguished Research Professor, Emeritus, Ph.D., Miami University (Ohio), 1984; 1990.

Nsofor, Margaret N., Associate Professor of Practice, Emerita, Ph.D., Mississippi State University, 1998.
 Reeve, John, Associate Professor, Emeritus, Ph.D., University of California Santa Barbara, 1985; 2000.
 Renzaglia, Karen, Distinguished Research Professor, Emerita, Ph.D., Southern Illinois University Carbondale, 1981; 2005.

Richardson, John A., Associate Professor, Emeritus, M.F.A., Ohio University, 1969; 1969.
Robertson, Philip A., Professor, Emeritus, Ph.D., Colorado State University, 1968; 1970.
Shepherd, Benjamin A., Professor, Emeritus, Ph.D., Kansas State University, 1970.
Thomas, Richard, H., Associate Professor, Emeritus, Ph.D., University of Arizona Tucson, 1985.
Tindall, Donald R., Professor, Emeritus, Ph.D., University of Louisville, 1966; 1966.
Vitt, Dale H., Distinguished Research Professor, Emeritus, Ph.D., University of Michigan, 1970; 2000.
Yopp, John H., Professor, Emeritus, Ph.D., University of Louisville, 1969; 1970.

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