

Graduate College

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Website: <https://www.grad.uiowa.edu/>

The University of Iowa has been a leading center of advanced study for more than a century. Presently, the Graduate College accounts for nearly one-fifth of the University's total enrollment. This high ratio reflects the breadth of the University's graduate programs and resources, the strength of a graduate faculty with a long tradition of personal and professional concern for students, and the opportunities afforded graduate students for involvement, recognition, and support.

The Graduate College is responsible for the review and approval of proposals for new graduate programs and for the periodic survey and evaluation of existing programs. Through its administration of scholarship, fellowship, and research assistantship funds, the college encourages research and strengthening of departments. Additionally, the college works with the other colleges and departments of the University to formulate policies concerning selection, supervision, and support of graduate students.

The faculty of the Graduate College is made up of all University tenure-track faculty members at the ranks of assistant professor, associate professor, and professor. A 17-member Graduate Council, elected from and by the graduate faculty and the Graduate Student Senate, is the executive committee of the graduate faculty and is advisory to the dean of the Graduate College.

Manual of Rules and Regulations of the Graduate College

The current edition of the Manual of Rules and Regulations of the Graduate College is available on the Graduate College website.

Office of Graduate Inclusion

The Office of Graduate Inclusion (OGI) is dedicated to providing academic assistance to graduate students from underrepresented populations across graduate programs; to helping build a sustainable practice of inclusion that nourishes and attracts underrepresented graduate students campuswide; and to helping build community through individual and group activities focused on successful academic progress.

Graduate Student Success

The Graduate College takes a holistic approach to graduate student and postdoctoral scholar preparation. Whether a student's goal is a career in academe, industry, government, or elsewhere—professional development can expand one's options and make a student more marketable to employers. The Graduate Student Success Office (GSS) can help graduate students in the realms of:

- communication
- research and publication
- diversity
- funding
- teaching
- leadership
- careers
- wellness

Research Resources

Many of the University's diverse research activities are centrally administered by the Office of Research and Economic Development, which has a cooperative relationship with the Graduate College.

Graduate Student Senate

The Graduate Student Senate is the University graduate student body representative organization. Representatives are elected annually from each University department that has a graduate degree program. The senate's primary purpose is to serve the interests of the graduate student body in matters affecting its welfare. The senate advises the dean of the Graduate College on matters pertaining to the college.

Programs

Degrees Offered

The Graduate College confers the Master of Arts (M.A.), Master of Science (M.S.), Master of Accountancy (M.Ac.), Master of Arts in Teaching (M.A.T.), Master of Computer Science (M.C.S.), Master of Fine Arts (M.F.A.), Master of Health Administration (M.H.A.), Master of Public Health (M.P.H.), Educational Specialist (Ed.S.), Master of Science in Nursing (M.S.N.), Master of Social Work (M.S.W.), Doctor of Philosophy (Ph.D.), Doctor of Musical Arts (D.M.A.), Doctor of Nursing Practice (D.N.P.), Doctor of Physical Therapy (D.P.T.), and Doctor of Audiology (Au.D.) degrees.

The college currently confers degrees in the following major fields.

Accounting: M.Ac.²
 Actuarial Science: M.S.
 African American World Studies: M.A.¹
 American Studies: M.A.¹, Ph.D.
 Anatomy and Cell Biology: M.S.³, Ph.D.³ (see Biomedical Science)
 Anthropology: M.A.¹, Ph.D.
 Applied Mathematical and Computational Sciences: Ph.D.
 Art: M.A.¹, M.F.A.
 Art History: M.A.¹, Ph.D.
 Asian Civilizations: M.A.¹
 Astronomy: M.S.¹
 Athletic Training: M.S.¹
 Biochemistry: M.S.³, Ph.D.³ (see Biomedical Science)
 Biology: M.S.³, Ph.D.³ (see Integrated Biology)
 Biomedical Engineering: M.S.¹, Ph.D.
 Biomedical Science: M.S.¹, Ph.D.
 Biostatistics: M.S.¹, Ph.D.
 Book Arts: M.F.A.
 Business Administration: M.A.¹, Ph.D.
 Business Analytics: M.S.
 Chemical and Biochemical Engineering: M.S.¹, Ph.D.
 Chemistry: M.S.¹, Ph.D.
 Civil and Environmental Engineering: M.S.¹, Ph.D.

Classics: M.A.¹, Ph.D.
 Clinical Investigation: M.S.¹
 Communication Studies: M.A.¹, Ph.D.
 Community and Behavioral Health: M.S., Ph.D.
 Comparative Literature—Translation: M.F.A.
 Computer Science: M.S.¹, M.C.S.², Ph.D.
 Dance: M.F.A.
 Dental Public Health: M.S.
 Economics: M.A.¹, Ph.D.
 Education: M.A.¹, M.A.T.², Ed.S.², Ph.D.
 Educational Policy and Leadership Studies: M.A.¹, Ed.S.², Ph.D.
 Electrical and Computer Engineering: M.S.¹, Ph.D.
 Elementary Education: M.A., Ph.D.
 English: M.A.¹, M.F.A., Ph.D.
 Epidemiology: M.S.¹, Ph.D.
 Exercise Science: M.S.³, Ph.D.³
 Film and Video Production: M.A.¹, M.F.A.
 Film Studies: M.A.¹, Ph.D.
 Free Radical and Radiation Biology: M.S.³, Ph.D.³ (see Biomedical Science)
 French and Francophone World Studies: M.A.¹, Ph.D.
 Genetics: Ph.D.
 Geography: M.A.¹, Ph.D.
 Geoscience: M.S.¹, Ph.D.
 German: M.A.¹, Ph.D.³
 Greek: M.A.¹
 Health and Human Physiology: M.S.¹, Ph.D.
 Health and Sport Studies: M.A.³, Ph.D.³
 Health Management and Policy: M.H.A.², Ph.D.³
 Health Policy, M.S.
 Health Services and Policy: Ph.D.
 History: M.A.¹, Ph.D.
 Human Toxicology: M.S., Ph.D.
 Immunology: Ph.D.³ (see Biomedical Science)
 Industrial Engineering: M.S.¹, Ph.D.
 Informatics: M.S.¹, Ph.D.
 Integrated Biology: M.S.¹, Ph.D.
 Integrative Physiology: Ph.D.³ (see Health and Human Physiology)
 Interdisciplinary Studies: M.A.¹, M.F.A., M.S.¹, Ph.D.
 International Studies: M.A.³
 Journalism: M.A.¹
 Latin: M.A.¹
 Leisure Studies: M.A.¹
 Library and Information Science: M.A.¹
 Linguistics: M.A.¹, Ph.D.
 Mass Communications: Ph.D.
 Mathematics: M.S.¹, Ph.D.
 Mechanical Engineering: M.S.¹, Ph.D.
 Microbiology: M.S.³, Ph.D.³ (see Biomedical Science)
 Molecular and Cellular Biology: Ph.D.³ (see Biomedical Science)
 Molecular Biology: Ph.D.³ (see Biomedical Science)
 Molecular Physiology and Biophysics: M.S.³, Ph.D.³ (see Biomedical Science)
 Music: M.A.¹, M.F.A., D.M.A., Ph.D.
 Neuroscience: Ph.D.
 Nursing: M.S.N.¹, D.N.P., Ph.D.
 Occupational and Environmental Health: M.S.¹, Ph.D.
 Operative Dentistry: M.S.³
 Oral Science: M.S., Ph.D.
 Orthodontics: M.S.
 Pathology: M.S.
 Pharmacology: M.S.³, Ph.D.³ (see Biomedical Science)
 Pharmacy: M.S.¹, Ph.D.
 Philosophy: M.A.¹, Ph.D.
 Physical Rehabilitation Science: M.A.¹, Ph.D.

Physical Therapy: D.P.T.
 Physics: M.S.¹, Ph.D.
 Political Science: M.A.¹, Ph.D.
 Psychological and Quantitative Foundations: M.A.¹, Ed.S.², Ph.D.
 Psychology: M.A.¹, Ph.D.
 Public Health: M.P.H.²
 Rehabilitation and Counselor Education: M.A.¹, Ph.D.
 Religious Studies: M.A.¹, Ph.D.
 Science Education: M.S.¹, M.A.T.², Ph.D.
 Second Language Acquisition: Ph.D.
 Secondary Education: M.A., M.A.T., Ph.D.
 Social Work: M.S.W.¹, Ph.D.
 Sociology: M.A.¹, Ph.D.
 Spanish: M.A.¹, Ph.D.
 Spanish Creative Writing: M.F.A.
 Special Education: M.A.¹, Ph.D.
 Speech and Hearing Science: Ph.D.
 Speech Pathology and Audiology: M.A.¹, Au.D.
 Statistical Genetics: Ph.D.³
 Statistics: M.S.¹, Ph.D.
 Stomatology: M.S.³
 Strategic Communication: M.A.²
 Teaching and Learning: M.A.¹, M.A.T.², Ph.D.
 Theatre Arts: M.F.A.
 Translational Biomedicine: M.S.², Ph.D.³
 Urban and Regional Planning: M.A.¹, M.S.¹
 Women's Studies: Ph.D.³

¹ Degree offered with or without thesis

² Nonthesis degree

³ Student entry suspended

Interdisciplinary Degree Programs

The Graduate College participates in a number of University of Iowa interdisciplinary degree programs. Detailed information about the following master's and doctoral degree programs is provided later in these Graduate College sections of the Catalog: Applied Mathematical and Computational Sciences, Genetics, Human Toxicology, Immunology, Informatics, International Studies, Molecular and Cellular Biology, Neuroscience, and Translational Biomedicine.

In addition to the degree programs listed above, the graduate faculty has authorized the awarding of interdisciplinary master's and doctoral degrees. Students seeking approval for interdisciplinary master's and doctoral programs must previously have been admitted to and enrolled in a departmental program in the Graduate College. See sections X.A. and XII.D. in the Manual of Rules and Regulations of the Graduate College on the college's website.

Joint Programs

Joint Programs Offered Through the Graduate College

Various joint programs have been developed whereby students work simultaneously toward two degrees. Consult the appropriate Catalog sections for more information. Established joint graduate programs include:

- book arts/library and information science;
- health management and policy/business administration;
- occupational and environmental health/urban and regional planning;

professional M.B.A./business analytics;
 professional M.B.A./social work;
 public health/law;
 public health/medicine;
 public health/pharmacy;
 public health/veterinary medicine; and
 social work/urban and regional planning.

Joint B.S.: Biochemistry/Ph.D.: Biomedical Science (Biochemistry Subprogram)

The joint B.S. in biochemistry/Ph.D. program in biomedical science with biochemistry subprogram enables Bachelor of Science students majoring in biochemistry to begin work toward the Ph.D. while completing the bachelor's degree. Students admitted to the program may count 12 s.h. of credit toward both the B.S. and Ph.D. degree requirements. Offered by the Graduate College, the College of Liberal Arts and Sciences, the Graduate College, and the Carver College of Medicine; see B.S. in Biochemistry and Ph.D. in Biomedical Science (biochemistry subprogram) in the Catalog.

Joint B.A.: Biology/M.P.H. with Epidemiology Subprogram or M.S.: Epidemiology

The joint B.A. in biology/M.P.H. with epidemiology subprogram and the joint B.A. in biology/M.S. in epidemiology enable Bachelor of Arts students majoring in biology to begin work toward the M.P.H. or M.S. while completing the bachelor's degree. Students admitted to either program may count 12 s.h. of credit toward both the B.A. and the M.P.H. or M.S. degree requirements; they also may maximize their selection of upper-level classes for advanced training in epidemiology. Offered by the Graduate College, the College of Liberal Arts and Sciences, and the College of Public Health; see B.A. in Biology, Master of Public Health, and M.S. in Epidemiology in the Catalog.

Joint B.S.E./M.S.: Biomedical Engineering

The joint B.S.E./M.S. program in biomedical engineering enables undergraduate students majoring in biomedical engineering to begin work toward the M.S. while completing the bachelor's degree. Students admitted to the program may count a limited amount of credit toward both the B.S.E. and M.S. degree requirements. They also may attend and participate in the departmental graduate seminar and work on a master's thesis or research project before they have been awarded the B.S.E. degree. Offered by the Graduate College and the College of Engineering; see Biomedical Engineering in the Catalog.

Joint B.S.E.: Biomedical Engineering/ M.S.: Occupational and Environmental Health

The joint B.S.E. in biomedical engineering/M.S. in occupational and environmental health enables undergraduate students majoring in biomedical engineering to begin work toward the M.S. in occupational and environmental health while completing the bachelor's degree. Students admitted to the program may count a limited amount of credit toward both the B.S.E. and M.S. degree requirements. Offered by the Graduate College, the College of Engineering, and the College

of Public Health; see B.S.E. in Biomedical Engineering and M.S. in Occupational and Environmental Health in the Catalog.

Joint B.S.E.: Chemical Engineering/ M.S.: Chemical and Biochemical Engineering

The joint B.S.E. in chemical engineering/M.S. in chemical and biochemical engineering enables undergraduate students majoring in chemical engineering to begin work toward the M.S. while completing the bachelor's degree. Students admitted to the program may count 12 s.h. of course work, typically advanced chemistry sequences and electives, toward both the B.S.E. and M.S. degree requirements. Offered by the Graduate College and the College of Engineering; see Chemical and Biochemical Engineering in the Catalog.

Joint B.S.E.: Chemical Engineering/ M.S.: Civil and Environmental Engineering

The joint B.S.E. in chemical engineering/M.S. in civil and environmental engineering enables undergraduate students majoring in chemical engineering to begin work toward the M.S. in civil and environmental engineering while completing the bachelor's degree. Students admitted to the program may count 12 s.h. of course work toward both the B.S.E. and M.S. degree requirements. Offered by the Graduate College and the College of Engineering; see B.S.E. in Chemical and Biochemical Engineering and M.S. in Civil and Environmental Engineering in the Catalog.

Joint B.S.E.: Civil Engineering/M.S.: Civil and Environmental Engineering

The joint B.S.E. in civil engineering/M.S. in civil and environmental engineering enables undergraduate students majoring in civil engineering to begin work toward the M.S. while completing the bachelor's degree. Students admitted to the program may count a limited amount of credit toward both the B.S.E. and M.S. degree requirements. They also may attend and participate in the departmental graduate seminar and work on a master's thesis or research project before they have been awarded the B.S.E. degree. Offered by the Graduate College and the College of Engineering; see Civil and Environmental Engineering in the Catalog.

Joint B.S.E.: Civil Engineering/M.A. or M.S.: Urban and Regional Planning

The joint B.S.E. in civil engineering/M.S. in urban and regional planning enables undergraduate students majoring in civil engineering to begin work toward the M.A. or M.S. while completing the bachelor's degree. Students admitted to the program may count a limited amount of credit toward both the B.S.E. and M.A. or M.S. degree requirements. They also may attend and participate in the departmental graduate seminar and work on a master's thesis or research project before they have been awarded the B.S.E. degree. Offered by the Graduate College and the College of Engineering; see B.S.E. in Civil and Environmental Engineering and Urban and Regional Planning in the Catalog.

Joint B.A. or B.S.: Computer Science/ M.C.S.

The joint B.A. or B.S. in computer science/M.C.S. program enables undergraduate students majoring in computer science to begin work toward the M.C.S. while completing the

bachelor's degree. Students admitted to the program may count 12 s.h. of course work, typically advanced technical courses and electives, toward both the bachelor's and the M.C.S. degree requirements. Offered by the Graduate College and the College of Liberal Arts and Sciences; see Computer Science in the Catalog.

Joint B.S.E.: Electrical Engineering/ M.S.: Electrical and Computer Engineering

The joint B.S.E. in electrical engineering/M.S. in electrical and computer engineering enables undergraduate students majoring in electrical engineering to begin work toward the M.S. while completing the bachelor's degree. Students admitted to the program may count 9 s.h. toward both the B.S.E. and M.S. degree requirements. They also may count an additional 3 s.h. toward the M.S. degree requirements and engage in thesis-level research before they have been awarded the B.S.E. degree. Offered by the Graduate College and the College of Engineering; see Electrical and Computer Engineering in the Catalog.

Joint B.A. or B.S.: Environmental Policy and Planning/M.A. or M.S.: Urban and Regional Planning

The joint B.A. or B.S. in environmental policy and planning/M.A. or M.S. in urban and regional planning enables undergraduate students majoring in environmental policy and planning to begin work toward the M.A. or M.S. while completing the bachelor's degree. Students admitted to the program may count a limited amount of credit toward both the B.A. or B.S. and M.A. or M.S. degree requirements. Offered by the Graduate College and the College of Liberal Arts and Sciences; see Environmental Policy and Planning and Urban and Regional Planning in the Catalog.

Joint B.A./M.A.: German

The joint B.A./M.A. program in German enables undergraduate students majoring in German to begin work toward the M.S. while completing the bachelor's degree. Students admitted to the program may count 12 s.h. of credit toward both the B.A. and M.A. degree requirements. They also have the opportunity for early entrance into advanced courses in German. Offered by the Graduate College and the College of Liberal Arts and Sciences; see German in the Catalog.

Joint B.S.E./M.S.: Industrial Engineering

The joint B.S.E./M.S. program in industrial engineering enables undergraduate students majoring in industrial engineering to begin work toward the M.S. while completing the bachelor's degree. Students admitted to the program may count 6 s.h. toward both the B.S.E. and M.S. degree requirements. They also may count an additional 6 s.h. toward the M.S. degree requirements, attend one of the department's graduate seminars, and work on master's thesis research before they have been awarded the B.S.E. degree. Offered by the Graduate College and the College of Engineering; see Mechanical and Industrial Engineering in the Catalog.

Joint Law and Graduate Degrees

The College of Law and several Graduate College programs and schools have developed joint programs in which students pursue the Juris Doctor (J.D.) degree and a graduate degree

concurrently. Offered by the Graduate College and the College of Law; see Juris Doctor (College of Law) in the Catalog.

Joint M.A.: Library and Information Science/Certificate in Book Studies/ Book Arts and Technologies

The joint M.A. in library and information science and Certificate in Book Studies/Book Arts and Technologies prepares students for careers in special collections librarianship. Students admitted to the program receive training in the management of varied types of special collections, such as rare books, manuscripts, archives, graphics, music, and ephemera. Offered by the Graduate College; see M.A. in Library and Information Science and Certificate in Book Studies/Book Arts and Technologies (Center for the Book) in the Catalog.

Joint B.A./M.A.: Linguistics with TESL Focus

The joint B.A./M.A. program in linguistics with TESL (Teaching English as a Second Language) focus enables students majoring in linguistics to begin work toward the M.A. while completing the bachelor's degree. Students admitted to the program may count 12 s.h. of advanced course work toward both the B.A. and M.A. degree requirements and may take selected graduate-level courses before they have been awarded the B.A. degree. They also may gain experience teaching ESL at the college level early in their graduate careers. Offered by the Graduate College and the College of Liberal Arts and Sciences; see Linguistics in the Catalog.

Joint B.A./M.A.T. with Mathematics Education Subprogram

The joint B.A./M.A.T. program with mathematics education subprogram enables Bachelor of Arts students majoring in mathematics to begin work toward the M.A.T. while completing the bachelor's degree. Students admitted to the program may count 18 s.h. of credit toward both the B.A. and M.A.T. degree requirements. Offered by the Graduate College, the College of Liberal Arts and Sciences, and the College of Education; see B.A. in Mathematics and Master of Arts in Teaching (Teaching and Learning) in the Catalog.

Joint B.S.E./M.S.: Mechanical Engineering

The joint B.S.E./M.S. program in mechanical engineering enables undergraduates majoring in mechanical engineering to begin work toward the M.S. while completing the bachelor's degree. Students admitted to the program may count 6 s.h. toward both the B.S.E. and M.S. degree requirements. They also may count an additional 6 s.h. toward the M.S. degree requirements, attend a graduate seminar, and participate in master's thesis research before they have been awarded the B.S.E. degree. Offered by the Graduate College and the College of Engineering; see Mechanical and Industrial Engineering in the Catalog.

Joint B.S.E.: Mechanical Engineering/ M.S.: Civil and Environmental Engineering

The joint B.S.E. in mechanical engineering/M.S. in civil and environmental engineering enables undergraduate students majoring in mechanical engineering to begin work toward the M.S. in civil and environmental engineering while completing

the bachelor's degree. Students admitted to the program may count 9 s.h. of course work toward both the B.S.E. and M.S. degree requirements. They also may count an additional 3 s.h. toward the M.S. degree requirements before they have been awarded the B.S.E. degree. Offered by the Graduate College and the College of Engineering; see B.S.E. in Mechanical and Industrial Engineering and M.S. in Civil and Environmental Engineering in the Catalog.

Joint M.D./Ph.D. (Medical Scientist Training Program)

The joint Doctor of Medicine/Doctor of Philosophy program prepares students for careers in academic medicine, with emphasis on basic and clinical research. Offered by the Graduate College and the Carver College of Medicine; see Medical Scientist Training Program in the Catalog.

Joint B.S.: Microbiology/Ph.D.: Biomedical Science (Microbiology Subprogram)

The joint B.S. in microbiology/Ph.D. program in biomedical science with microbiology subprogram enables undergraduate students majoring in microbiology to begin work toward the Ph.D. while completing the bachelor's degree. Students admitted to the program may count 12 s.h. of credit toward both the B.S. and Ph.D. degree requirements. Offered by the Graduate College, the College of Liberal Arts and Sciences, the Graduate College, and the Carver College of Medicine; see B.S. in Microbiology and Ph.D. in Biomedical Science (microbiology subprogram) in the Catalog.

Joint B.A.: Psychology/M.P.H. with Community and Behavioral Health Subprogram

The joint B.A. in psychology/M.P.H. program with community and behavioral health subprogram enables Bachelor of Arts students majoring in psychology to begin work toward the M.P.H. while completing the bachelor's degree. Students admitted to the program may count 12 s.h. of credit toward both the B.A. and M.P.H. degree requirements. Offered by the Graduate College, the College of Liberal Arts and Sciences, and the College of Public Health; see B.A. in Psychology (Psychological and Brain Sciences) and Master of Public Health in the Catalog.

Joint Bachelor's and Public Health Graduate Degrees

The College of Public Health and various undergraduate programs have developed joint programs in which students pursue the bachelor's degree, either a B.A. or a B.S., and a public health graduate degree, M.A., M.P.H. or M.S., in five years instead of six. Offered by all undergraduate colleges, the Graduate College, and the College of Public Health; see College of Public Health in the Catalog.

Joint B.A./M.A.T. with Science Education Subprogram

The joint B.A./M.A.T. program with science education subprogram enables Bachelor of Arts students majoring in biology, chemistry, environmental sciences, or physics to begin work toward the M.A.T. while completing the bachelor's degree. Students admitted to the program may count 18 s.h. of credit toward both the B.A. and M.A.T. degree requirements. Offered by the Graduate College, the College of

Liberal Arts and Sciences, and the College of Education; see Biology, Chemistry, Environmental Sciences, or Physics and Astronomy and Master of Arts in Teaching (science education subprogram; Teaching and Learning) in the Catalog.

Joint Au.D./Ph.D.: Speech and Hearing Science

The joint Au.D./Ph.D. program in speech and hearing science is designed for students who would like to practice audiology and hold a faculty position at a university. Students admitted to the program work concurrently toward the Doctor of Audiology and the Doctor of Philosophy; they may count 30 s.h. toward the requirements of both degrees. Offered by the Graduate College and the College of Liberal Arts and Sciences; see Communication Sciences and Disorders in the Catalog.

Joint B.S.: Statistics/M.P.H. with Quantitative Methods Subprogram

The joint B.S. in statistics/M.P.H. program with quantitative methods subprogram enables Bachelor of Science students majoring in statistics to begin work toward the M.P.H. while completing the bachelor's degree. Students admitted to the program may count 12 s.h. of credit toward both the B.S. and M.P.H. degree requirements. Offered by the Graduate College, the College of Liberal Arts and Sciences, and the College of Public Health; see B.S. in Statistics (Statistics and Actuarial Science) and Master of Public Health in the Catalog.

Joint B.S.: Statistics/M.S.: Statistics

The joint B.S./M.S. program in statistics enables undergraduate students majoring in statistics to begin work toward the M.S. while completing the bachelor's degree. Students admitted to the program may count 12 s.h. of credit toward both the B.S. and M.S. degree requirements. Offered by the Graduate College and the College of Liberal Arts and Sciences; see Statistics and Actuarial Science in the Catalog.

Joint B.S.: Therapeutic Recreation/ M.S.: Health and Human Physiology (Child Life Subprogram)

The joint B.S. in therapeutic recreation/M.S. in health and human physiology with a child life subprogram enables undergraduate students majoring in therapeutic recreation to begin work toward the M.S. while completing the bachelor's degree. Students admitted to the program may count a limited number of credit toward both the B.S. and M.S. degree requirements. Offered by the Graduate College and the College of Liberal Arts and Sciences; see Health and Human Physiology in the Catalog.

Certificates

The Graduate College also participates with other University of Iowa colleges in offering the following graduate certificates.

Advanced Practice Nursing

The Certificate in Advanced Practice Nursing is a program for Doctor of Nursing Practice (D.N.P.) students that offers advanced clinical training in five specialty areas:

- adult/gerontology nurse practitioner;
- adult/gerontology nurse practitioner-acute care;
- family nurse practitioner;
- pediatric nurse practitioner-primary care; and

pediatric nurse practitioner-acute care and psychiatric/mental health nursing.

Students who complete the D.N.P. program and the certificate requirements are qualified to sit for a professional certification exam. See the Certificate in Advanced Practice Nursing in the Catalog.

Aging and Longevity Studies

The Aging and Longevity Studies Program is a multidisciplinary certificate program administered by the College of Liberal Arts and Sciences in cooperation with other University of Iowa colleges. The program is designed to complement graduate degree programs or to serve as a stand-alone nondegree program for students with academic, professional, research, or service career interests in aging. See the Certificate in Aging and Longevity Studies in the Catalog.

Agricultural Safety and Health

The Certificate in Agricultural Safety and Health is a postbaccalaureate program for practicing health care professionals serving rural areas and for health professions students who intend to practice in rural areas. The program is designed to help rural health professionals address safety and health issues in farm settings. See the Certificate in Agricultural Safety and Health in the Catalog.

American Indian and Native Studies

The American Indian and Native Studies Program (AINSP) offers an interdisciplinary certificate program focusing on the histories, cultures, languages, arts, religious traditions, political and social organizations, economies, geographies, literatures, and contemporary legal and political concerns of Native Americans of the United States as well as other indigenous peoples of the Western Hemisphere. See the Certificate in American Indian and Native Studies in the Catalog.

Biostatistics

The Certificate in Biostatistics is open to students in University of Iowa graduate degree programs outside biostatistics and to individuals admitted to the Graduate College as nondegree students. The certificate program enables students to add a formal biostatistics emphasis to their degree programs. Students who complete the certificate in conjunction with a graduate degree may count a maximum of 6 s.h. of certificate credit toward their graduate degree. See the Certificate in Biostatistics in the Catalog.

Business Analytics

The Certificate in Business Analytics is open to students in University of Iowa graduate degree programs and to individuals admitted to the Graduate College as nondegree students. The certificate program is designed for working professionals and addresses a growing need to manage and analyze the rapidly increasing amount of data that is available to support business decision making. See the Certificate in Business Analytics in the Catalog.

Center for the Book

The Certificate in Book Studies/Book Arts and Technologies requires 18 s.h. of graduate credit and is designed to be completed in one year. The program is open to students who

are enrolled in a graduate degree program at the University of Iowa as well as to students enrolled in the Graduate College with nondegree status. See the Certificate in Book Studies/Book Arts and Technologies in the Catalog.

Cognitive Science of Language

The Certificate in Cognitive Science of Language requires a minimum of 12-15 s.h. of graduate credit. Designed to complement doctoral study, the certificate program is open to University of Iowa Ph.D. students in linguistics, neuroscience, psychology, and speech and hearing science. Ph.D. students in other disciplines may petition to be permitted to earn the certificate. Students must complete a formal application to enter the certificate program; they should contact the program's coordinator before they apply. See the Certificate in Cognitive Science of Language in the Catalog.

College Teaching

The Certificate in College Teaching complements discipline-oriented graduate programs and prepares students for careers in postsecondary education. The program is open to graduate students working toward a Ph.D. or other terminal graduate degree. See the Certificate in College Teaching in the Catalog.

Emerging Infectious Disease Epidemiology

The Certificate in Emerging Infectious Disease Epidemiology is a postbaccalaureate program designed to meet the training needs in emerging infectious disease of international public health professionals as well as University of Iowa graduate students. Applicants to the program must hold a bachelor's degree. See the Certificate in Emerging Infectious Disease Epidemiology in the Catalog.

Gender, Women's, and Sexuality Studies

The Certificate in Gender, Women's, and Sexuality Studies is open to students enrolled in graduate degree programs. See the Certificate in Gender, Women's, and Sexuality Studies in the Catalog.

Global Health Studies

The Certificate in Global Health Studies is open to graduate and professional students, except for those in the College of Pharmacy, who have earned the Pharm.D. degree; they are awarded the undergraduate certificate. Students must maintain a g.p.a. of at least 3.00 in work for the 18 s.h. certificate. See the Certificate in Global Health Studies in the Catalog.

Informatics

The Certificate in Informatics requires a minimum of 18-21 s.h. of graduate credit, depending on the student's choice of subprogram: the subprograms in bioinformatics and computational biology, health informatics, and information science require a minimum of 18 s.h.; the geoinformatics subprogram requires a minimum of 21 s.h. The certificate program is designed for students enrolled in University of Iowa graduate degree programs who wish to study informatics as a complement to their degree program and for nondegree students who are interested in increasing their knowledge of informatics. See the Certificate in Informatics in the Catalog.

Multicultural Education and Culturally Competent Practice

The Certificate in Multicultural Education and Culturally Competent Practice is open to graduate students enrolled in graduate degree programs and to postbaccalaureate, nondegree graduate students. The curriculum, which consists of five courses (15 s.h.), begins with an introductory course and ends with a capstone course. See the Certificate in Multicultural Education and Culturally Competent Practice in the Catalog.

Online Teaching

The Certificate in Online Teaching is designed to prepare students for the realities of online teaching and to help them expand their career options. The certificate is open to students in University of Iowa graduate degree programs and to individuals admitted to the Graduate College as nondegree students. See the Certificate in Online Teaching in the Catalog.

Public Digital Humanities

The Certificate in Public Digital Humanities requires 15 s.h. of graduate credit. The program is open to all University of Iowa graduate students in good academic standing. Students must maintain a g.p.a. of at least 3.00 in work for the certificate. See the Certificate in Public Digital Humanities in the Catalog.

Public Health

The College of Public Health offers the Certificate in Public Health for undergraduate and graduate students. The certificate program is designed to improve public health practice and public health workforce capacity in Iowa and the upper Midwest. It is intended primarily for individuals in public health practice, those in the workforce, and those interested in strengthening their knowledge and skills in basic public health competencies. See the graduate Certificate in Public Health in the Catalog.

Sacred Music

The Certificate in Sacred Music is an interdisciplinary program with courses in sacred music, choral conducting and literature, keyboard, voice, religion, and art and art history. The program is open to students enrolled in a graduate degree program and to nondegree students who have been admitted to the Graduate College and who have consent of the certificate's faculty advisor. See the Certificate in Sacred Music in the Catalog.

Teaching English as a Foreign Language (TEFL)

The TEFL certificate is intended for overseas English teachers and administrators who are not able to enroll in face-to-face classes at the University of Iowa. The certificate prepares students to seek and retain positions in English language teaching and administration. The program is open to students enrolled in a graduate degree program and to nondegree students who have been admitted to the Graduate College and who have consent of the certificate's faculty advisor. See the Certificate in Teaching English as a Foreign Language in the Catalog.

Translational and Clinical Investigation

The Certificate in Translational and Clinical Investigation is designed for clinicians who seek advanced training in clinical methodology and applied patient-oriented research skills. Students in the certificate program must be practicing academic clinicians who have completed doctoral training. See the Certificate in Translational and Clinical Investigation in the Catalog.

Transportation Studies

The Certificate in Transportation Studies requires 18 s.h. of graduate credit. Students may earn the certificate in conjunction with an M.S. or Ph.D. in civil and environmental engineering or with an M.A. or M.S. in urban and regional planning.

Individuals working toward degrees in other transportation-related disciplines are encouraged to apply to the Transportation Studies Program. Depending on a student's background, additional course work in statistics, computer programming, simulation, mathematics, and operations research may be required for the certificate. Credit earned in these courses may not be applicable to the student's degree program. See the Certificate in Transportation Studies in the Catalog.

Financial Support

Approximately half of the University's graduate students receive some form of University-administered financial assistance. For eligibility requirements and application procedures, see "Section VII. Graduate Appointments" in the Manual of Rules and Regulations of the Graduate College. The following are the primary sources of assistance.

Teaching and Research Assistantships

Teaching and research assistantships are available in most departments. Assistantship stipends typically range between \$18,809 for a half-time academic-year appointment and \$22,980 for a half-time fiscal-year appointment; assistants also are eligible for tuition scholarships. Assistants (one-quarter-time or more) pay resident tuition rates for fee purposes.

Iowa Arts Fellowships

Iowa Arts Fellowships are for University of Iowa graduate students entering M.F.A. programs. Typical stipends are \$18,500 for the academic year, with all tuition and 25 percent of mandatory fees paid, plus a health insurance allowance, for one year (the remaining years of support must be provided by the appointing program). There are no departmental service obligations while holding the first-year fellowship.

Iowa Performance Fellowships

Iowa Performance Fellowships are for first-year D.M.A. candidates in a performance area of music. Recipients are nominated by the School of Music. Awards include academic-year fellowships (\$18,000 for year one, \$9,404.50 for years two and three), summer fellowships (\$2,000 for years one and two), and tuition and 25 percent of mandatory fees paid (fellow is responsible for the remainder of fees). The School of

Music provides a one-quarter-time research assistantship in years two and three.

Graduate College Iowa Recruitment Fellowships

Iowa Recruitment Fellowships program enhances departmental recruitment packages by offering the most accomplished new doctoral students a stipend supplement (\$2,000 per year) for up to five years and fellowship support for up to four summer terms (\$4,000 per summer). Tuition scholarships are to be paid during the academic years (fall, spring) by the appointing unit, while the Graduate College provides up to 2 s.h. of tuition and benefits for the summer terms. Recipients are nominated by their department.

Graduate College Summer Fellowships

Graduate College Summer Fellowships are for advanced doctoral students who have completed their comprehensive exams, are working to complete their dissertations, and do not otherwise have funding for the summer session. Awards provide a summer stipend of \$4,000 and provide up to 2 s.h. of tuition. Awardees must enroll for the six-week, eight-week, or twelve-week summer session. Students enrolled in the four-week summer session are not eligible to receive the fellowship.

T. Anne Cleary International Research Fellowships

The T. Anne Cleary International Research Fellowships are for doctoral students who have completed all predissertation requirements, including the comprehensive examination, and who will use the fellowship for dissertation research outside North America. The awards may vary from \$1,500 to \$5,000 and are meant to supplement other research funds. Doctoral students in any discipline may apply. Past recipients of the Cleary fellowship and Doctor of Musical Arts students who choose the D.M.A. essay option are not eligible.

Ballard and Seashore Dissertation-Year Fellowships

Ballard and Seashore Dissertation Fellowships are one semester fellowships for doctoral candidates who have completed all doctoral degree requirements except their dissertation. Recipients are nominated by their departments. Fellowships provide \$10,000 for the semester plus tuition and 25 percent of mandatory fees paid for up to 2 s.h. and a health insurance allowance.

Post-Comprehensive Research Awards

The Post-Comprehensive Research Awards program provides an opportunity for advanced doctoral students to benefit from protected and supported time to pursue their scholarly research activities. The award is intended to recognize students with distinguished academic achievement during their early graduate training. These achievements should be evident from a combination of outstanding academic performance in course work, as well as early scholarly research activities. Students who have held teaching assistantships in the previous two semesters will have priority.

Awardees will receive a stipend in the amount of \$9,404.50. The Graduate College also supports up to 2 s.h. of tuition, 25 percent of the mandatory fees, and a health insurance allowance. Recipients are nominated by their department.

Scholarships

Scholarships provide up to full tuition.

Graduate Student Travel Awards

Graduate student travel awards provide reimbursement for travel by students who present research and scholarship results to professional conferences. Awards are competitive across disciplines and vary from \$200 to \$400. Funds are administered by the Graduate Student Senate and the Graduate College.

Other Sources

For other sources of financial support, contact the Office of Student Financial Aid.

Many departments offer additional support through traineeships, part-time employment in research, or part-time teaching appointments. The Office of Research and Economic Development maintains a library of information on public and private agencies that provide funds for research and graduate study. Much material has been collected concerning awards for overseas study.

Courses

Most Graduate College courses are offered by the college's programs and schools. They are listed and described in the corresponding Catalog sections.

The college also offers the following nondepartmental courses.

Graduate College Courses

GRAD:0006 SROP Scholars Program	0 s.h.
GRAD:3030 SROP/McNair Scholars Academic Development for Juniors	0-1 s.h.
Training and mentorship opportunities to enhance academic and professional success; academic preparation (including the GRE) and exploration of doctoral graduate training programs; seminars, interactive workshops, readings, written assignments. Requirements: UI SROP/McNair Scholar and junior standing.	
GRAD:3040 SROP/McNair Scholars Academic Development for Seniors	0-1 s.h.
Training and mentorship opportunities to enhance academic and professional success; academic preparation and professional development to navigate the graduate admissions process (including preparation of personal statements, selection of referees, mock interviews); seminars, interactive workshops, readings, written assignments. Requirements: UI SROP/McNair Scholar and senior standing.	
GRAD:6000 Ph.D. Postcomprehensive Registration	1 s.h.
GRAD:6001 Master's Final Registration	1 s.h.
Requirements: master's degree candidate.	
GRAD:6002 Doctoral Continuous Registration	1 s.h.
Requirements: doctoral degree candidate who has passed comprehensive examinations.	

- GRAD:6003 Doctoral Final Registration** 1 s.h.
Requirements: doctoral degree candidate in final session of enrollment.
- GRAD:6140 Introduction to Multicultural Education and Culturally Competent Practice** 3 s.h.
Introduction to foundations of multicultural education and cultural competence; numerous equal access movements that impact professional practice in education, social work, counseling, and the allied helping professions mobilized in the U.S. during the 20th century; issues of diversity and equity that continue to fuel current policy debates and impact professional practice; roots of equal access movements from *Brown v. Board of Education* to the present; social, political, and/or economic contexts for equal access policies concerning race/ethnicity, class, language, gender, ability, and sexual orientation.
- GRAD:6217 Seminar in College Teaching** 1-3 s.h.
Preparation for college teaching; for graduate students planning to teach. Same as PSQF:6217.
- GRAD:6300 Writing for Learned Journals** 1-4 s.h.
Seminar that supports graduate students in bringing written work to publishable form; analysis of target journals' audiences, interests, and citation politics; submission and the publication process; response to reader reports and criticism; best writing and research practices; discussion of knowledge cultures and discourses in disciplines and the contemporary academy. Same as RHET:6330.
- GRAD:6313 Studio Summer Fellowship** 1 s.h.
Investigation of and reflection on digital scholarly collaboration, production, and promotion. Same as ULIB:6313.
- GRAD:6800 CIC Scholar** arr.
- GRAD:6801 Regents Exchange Program** arr.
- GRAD:6997 Graduate/Professional Transfer** arr.
- GRAD:6998 Undergraduate Transfer** arr.
- GRAD:6999 Resident/Fellow/Post-Doctoral** 0 s.h.
- GRAD:7280 Obermann Center for Advanced Studies Special Topics Seminars** 1-3 s.h.
Active participation and engagement in a major program, such as the annual Humanities Symposium; readings on interdisciplinary histories, contexts, and theoretical perspectives that frame featured events; work of artists, scholars, and researchers participating in the program. Requirements: admission to Graduate College.
- GRAD:7285 Obermann Center Professional Development Seminar** 1 s.h.
Active participation and engagement in a series of classes dedicated to connecting public engagement, research, and teaching; readings and media viewings that frame course topics; production of a short film, marketing materials, grant, and syllabi relevant to public engagement project. Requirements: admission to Graduate College and completion of Obermann Graduate Institute on Engagement and the Academy.
- GRAD:7290 Digital Humanities Theory and Practice** 3 s.h.
Overview of theories and use of technology to preserve, deploy, visualize, map, and analyze concepts; discussions with practicing digital public scholars; assignments tailored to student research; final group project; introductory course in public digital humanities certificate. Same as SLIS:7290.
- GRAD:7385 Teaching and Learning in Higher Education** 3 s.h.
Current theoretical and empirical literature on teaching and learning in higher education; focus on development of effective teaching practice. Same as EDTL:7385, EPLS:7385, PSQF:7385, RCE:7385.
- GRAD:7400 Practicum in College Teaching** arr.
Supervised college teaching experience; teaching in collaboration with faculty, observation and critiques of teaching, participation in course planning and evaluation procedures; ethical and multicultural considerations. Requirements: admission to the graduate certificate in college teaching program.
- GRAD:7601 Postdoctoral Research Scholar** 0 s.h.
Requirements: postdoctoral standing.
- GRAD:7602 Postdoctoral Research Fellow** 0 s.h.
Requirements: postdoctoral standing.