



GRADUATE CATALOG | 2020-21

UNIVERSITY OF WISCONSIN
LA CROSSE **UWL**TM

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Graduate Catalog

This is a record of graduate programs, courses, and policies as of July 2020. Changes that occur after the July publication date will be included in the next catalog.

Welcome

Welcome and thank you for your interest in the University of Wisconsin-La Crosse. UWL offers over twenty graduate programs, from the hard sciences to the health professions, from business to education and the social sciences. We are proud of our innovation and the opportunities provided for close interaction with excellent faculty through coursework, research, and practical experiences both on campus and in the community. Our focus is on the delivery of high quality experiences that prepare individuals both for careers in their fields and for further education at the doctorate level.

The College of Science and Health; the College of Arts, Social Sciences, and Humanities; and the School of Education, Professional, & Continuing Education each offer graduate programs. Many of our courses and programs are offered on campus in traditional formats. We also have a growing number of courses and degrees delivered to students off campus through both on-line courses and face-to-face courses delivered in communities across the State of Wisconsin.

Our graduate faculty members are committed to providing high quality, innovative, and challenging opportunities for personal and professional development. We offer a learning environment that places students at the leading edge of their fields and prepares them for continued success.

We look forward to you joining us as you continue your formal education. I invite you visit the Office of Graduate Studies (<http://www.uwlax.edu/graduate-studies/>) at 223 Graff Main Hall for more information.

Sincerely,
Meredith Thomsen
Director of Graduate Studies

The mission of graduate studies at UWL

A graduate education at UW-La Crosse fosters in students an advanced understanding of disciplinary and professional content, along with skills such as collaboration, problem-solving, leadership, and communication. Graduate faculty and students embody the Wisconsin Idea (https://en.wikipedia.org/wiki/Wisconsin_Idea/) by working together, often one-on-one or with community partners, on projects that serve the current needs of society. The close interactions between students and faculty promote student learning and benefit faculty members by enhancing their teaching, research and service. During their time at UW-La Crosse, students develop as ethical professionals and as members of a diverse workforce. Graduates are prepared to contribute to society by advancing in their professions or by seeking further education.

About this catalog

In compiling our catalog, we have used the most current and accurate information available to us at this time. However, we reserve the right to change any of the information in this catalog at any time and without giving prior notice. When the UW System or UWL campus deletes or revises any of the information in this catalog, the changes take effect as

soon as it is appropriate. At times, changes are applicable to all students regardless of which catalog they are following.

This catalog does not establish or constitute a contract between UW-La Crosse and its students. Instead, it provides descriptive and summary information outlining university rules, policies, regulations, course listings, and degree programs. It is important for students to become acquainted with UWL requirements and regulations and to continue to keep informed about them while they are enrolled.

Courses listed in this catalog are subject to change through normal academic procedures. New programs and courses and changes in existing coursework are initiated by departments or programs and approved by the appropriate academic dean, the curriculum committees, and the faculty senate. Additions to the curriculum for the ensuing years are published in the official curriculum committee minutes which are on file with Faculty Senate (<https://www.uwlax.edu/faculty-senate/committees/faculty-committees/curriculum/>) and in the Office of Records and Registration.

About UW-La Crosse

- UW-La Crosse: a profile (p. 5)
- Freedom of thought and expression (p. 5)
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- Accommodation of religious beliefs (p. 6)
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UW-La Crosse: a profile

The University of Wisconsin-La Crosse continues to position itself among the country's elite public universities. The university is the state's top-ranked public or private higher education institution by the *U.S. News & World Report* for Best Regional Universities in the Midwest and has been ranked among the top four Midwestern public institutions for nearly two decades. UWL is also listed annually among Kiplinger's Top 100 Best Values, and has been on its national list of the "25 Best College Values Under \$30,000 a Year." UWL is one of only 23 colleges nationwide recognized by *U.S. News & World Report's Best Colleges Rankings* (2016) for stellar undergraduate research and creative projects.

The student body of more than 10,500 from 41 states and 31 countries is impressive. The retention rate is an outstanding 84 percent. The six-year graduation rate for students beginning in fall 2013 was 69 percent, well above the national average.

UWL offers nearly 101 undergraduate academic programs in 30 disciplines, 30 graduate programs and two doctoral programs. Students learn directly from professors, not assistants. A 19:1 student-faculty ratio means small classes, an average of 28 students. Students learn directly from professors — including the Wisconsin Professor of the Year, an honor UWL faculty have earned four times in the last decade. More than 80 percent of full-time faculty hold doctoral or terminal degrees.

The university is organized into three academic colleges and two schools: the College of Business Administration, College of Science and Health, College of Arts, Social Sciences, and Humanities, the School of Visual and Performing Arts (housed within the College of Arts, Social Sciences, and Humanities), and the School of Education, Professional and Continuing Education. Teacher education is a campus-wide commitment. Descriptions of the departments and programs within the colleges as well as general information, college curriculum requirements, and any requirements that apply to specific colleges can be found in the undergraduate (<http://catalog.uwlax.edu/undergraduate/>) and graduate (<http://catalog.uwlax.edu/graduate/>) catalogs or through UWL's Academics (<http://www.uwlax.edu/info/academics/>) page. Descriptions of pre-professional programs are included in the College of Science and Health. Wisconsin teacher licensure information is included in the School of Education, Professional and Continuing Education section.

The university's intercollegiate athletic teams, the Eagles, compete in 21 sports, predominately in the NCAA Division III, and as of March 31, 2020, have earned 71 national titles, 37 since 2001. The university is proud of the Veterans Memorial Field Sports Complex, a \$16.6 million athletic complex completed in 2009 and funded entirely by private donations. The site is home to the annual WIAA State High School Track & Field Championships and has hosted the NCAA III National Track & Field Championships numerous times — most recently for the 2018 NCAA III Men's and Women's Track & Field Championships.

The campus lies in a residential section of the city of La Crosse (population 52,000, metro 133,665). La Crosse is a major point of interest on the Great River Road that winds north and south through

10 states along the Mississippi River. The city is nestled on the east bank of the river below towering 500-foot bluffs separated by steep-walled ravines known as coulees. See more about the city and area at La Crosse County Convention & Visitors Bureau (<http://www.explorelacrosse.com/>).

UWL offers much to western Wisconsin by hosting cultural events, regional and national conferences, and prominent speakers. UWL works cooperatively with other area education and medical institutions to foster cutting-edge health care in the region, as well as a state-of-the-art health research and education facility.

The university's history dates back to 1909 when the La Crosse Normal School opened its doors as a teacher training school. It became a state teachers college in 1927, a state college in 1951, and a state university in 1964. The university became part of the University of Wisconsin System in 1971. Discover more at the University of Wisconsin-La Crosse (<https://www.uwlax.edu/#welcoming>).

Freedom of thought and expression

The mission of the University of Wisconsin-La Crosse is to provide "a challenging, dynamic, and diverse learning environment in which the entire university community is fully engaged in supporting student success." In pursuit of this mission, UWL encourages and protects diverse perspectives, the free flow of ideas, and open discussion among students, faculty, staff, and other members of the campus community. Constructive engagement with differing perspectives in a climate of free inquiry is essential to the pursuit of knowledge. UWL is committed to providing all members of the University community the broadest possible latitude to speak, write, listen, challenge and learn.

Encountering new, different or opposing perspectives can be challenging and uncomfortable; this is a necessary feature of the UWL educational experience. Thus, all members of the campus community are encouraged to engage with diverse viewpoints in a manner that affirms our community and furthers our mission, to be thoughtful when participating in the exchange of ideas, and to hold themselves accountable for the impact of their expression on others.

For more information and resources, please see the UWL Civil Discourse and Free Speech (<https://www.uwlax.edu/chancellor/civil-discourse-and-free-speech/>) web page, and the University of Wisconsin System Regent Policy Document 4-21, Commitment to Academic Freedom and Freedom of Expression (<https://www.wisconsin.edu/regents/policies/commitment-to-academic-freedom-and-freedom-of-expression/>).

Civil rights

The University of Wisconsin-La Crosse is committed to providing equal education and employment opportunity regardless of race, sex, color, creed, religion, national origin, disability, ancestry, age, sexual orientation, pregnancy, marital, parental status, gender identity, gender expression, or veteran status. Pursuant to Title IX of the Educational Amendments of 1972, discrimination on the basis of sex is prohibited in any educational program or activity receiving federal financial assistance. Pursuant to Title VI of the Civil Rights Act of 1964, discrimination on the basis of race, color or national origin is prohibited. Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 prohibit discrimination on the basis of physical or mental disability. Equal educational opportunity includes: admission, recruitment, extracurricular programs and activities, housing facilities, access to course offerings, counseling and testing, financial assistance, employment, health and insurance services, and athletics. Sexual harassment is a form of sex discrimination that is unlawful and contrary to the fundamental standards of a university community. All grievances,

questions or requests for information should be referred to the Office of Equity & Affirmative Action (<http://www.uwlax.edu/equity/>), 131 Graff Main Hall.

Accommodation of religious beliefs

It is the policy of the Board of Regents that students' sincerely held religious beliefs shall be reasonably accommodated with respect to all examinations and other academic requirements. Pursuant to UWS 22 (https://docs.legis.wisconsin.gov/code/admin_code/uws/22/), the claim of a religious conflict should be accepted at face value, and any student with a conflict between an academic requirement and any religious observance must be given an alternative means of meeting the academic requirement. The student must notify the instructor within the first three weeks of class (within the first week of summer session and short courses) of the specific days/dates for which the student will request relief. Instructors may schedule a make-up examination or other academic requirement before or after the regularly scheduled examination or other academic requirement. Complaints may be filed with the Office of Equity & Affirmative Action (<http://www.uwlax.edu/equity/>).

Accessibility for individuals with disabilities

Section 504 of the Rehabilitation Act of 1973 prohibits discrimination on the basis of disability. Ongoing efforts are being made to ensure that facilities and programs are accessible to all students with disabilities. All students must identify and present documentation (no older than three years) of their disabilities to the ACCESS Center in order to receive ongoing accommodations.

Direct student services to those with physical, sensory or learning disabilities/ADHD include, but are not limited to: classroom note takers, tutors, class preregistration, taped textbooks, academic advising, individual/group counseling and equipment loan. Specific requests for assistance or information should be directed to the coordinator of the ACCESS Center (<http://www.uwlax.edu/access-center/>), 165 Murphy Library.

Missions

UW-La Crosse's institutional priorities are guided by the UWL Select Mission, Vision, and Values statements, adopted by the UWL Joint Planning & Budget Committee in March 2015. As part of the University of Wisconsin System, UWL is also guided by the UW System Mission Statement and the Core Mission of the University Cluster Institutions, which applies to all the comprehensive universities in the UW System. At the core of all the mission statements is "The Wisconsin Idea," the principle that the knowledge of the university should be extended to the entire state.

The University of Wisconsin - La Crosse: Mission, Vision, and Values

Adopted by the UWL Joint Planning & Budget Committee, March 2015

Mission

The University of Wisconsin-La Crosse provides a challenging, dynamic, and diverse learning environment in which the entire university community is fully engaged in supporting student success. Grounded in the liberal arts, UWL fosters curiosity and life-long learning through collaboration, innovation, and the discovery and dissemination of new knowledge. Acknowledging and respecting the contributions of all, UWL is a regional academic and cultural center that prepares students to take

their place in a constantly changing world community. The university offers undergraduate programs and degrees in the arts and humanities, health and sciences, education, and business administration. The university offers graduate programs related to areas of emphasis and strength within the institution, including business administration, education, health, the sciences, and the social sciences.

Vision

The University of Wisconsin-La Crosse aims to foster within each student the curiosity, creativity, and tenacity necessary to solve the regional, national, and international challenges of the 21st century. The university's official motto *mens corpusque* ("mind and body") will continue to guide our direction as a student-centered university committed to a quality education for the whole person. As such, it will continue to provide opportunities both inside and outside the classroom for the development of sound mental, emotional, and ethical skills, as well as general well-being. Our students, faculty, and staff will experience the world through constantly evolving technologies and cultures. Thus, the skills of effective communication, critical thought, leadership, and an appreciation for diversity must be the hallmarks of a UWL education.

Values

Fassett Cotton, our institution's first leader, serving from 1909-1924, conceived the original University of Wisconsin-La Crosse educational philosophy of the total development of the individual. Later, history professor and Dean of the College of Arts, Letters, and Sciences, William M. Laux (1922-1967), suggested the symbols of our official university seal along with the accompanying Latin phrase, *mens corpusque* ("mind and body"), to exemplify our collective commitment to a high quality education for the whole person. **The University of Wisconsin-La Crosse values:**

- The *mens corpusque* educational philosophy that recognizes each student as a whole person and aspires to enhance both mind and body through the noble search for knowledge, truth, and meaning central to a wide range of high quality learning experiences and scholarly pursuits.
- Diversity, equity, and the inclusion and engagement of all people in a safe campus climate that embraces and respects the innumerable different perspectives found within an increasingly integrated and culturally diverse global community.
- A high quality of life and work balance, incorporating best practices for shared governance and the acquisition and efficient management of resources, equitable compensation, general wellness, and social, environmental, and economic sustainability.
- Civic engagement and a renewed commitment to the *Wisconsin Idea*, in which our socially responsible campus serves as a resource for our increasingly intertwined local, state, and global communities, collaborating and sharing resources and expertise to improve the human condition.

The University of Wisconsin System Mission

The mission of the System is to develop human resources, to discover and disseminate knowledge, to extend knowledge and its application beyond the boundaries of its campuses, and to serve and stimulate society by developing in students heightened intellectual, cultural, and humane sensitivities; scientific, professional, and technological expertise; and a sense of value and purpose. Inherent in this mission are methods of instruction, research, extended education, and public service designed to educate people and improve the human condition. Basic to every purpose of the System is the search for truth.

Core Mission of the University Cluster Institutions

1. Offer associate and baccalaureate degree level and selected graduate programs within the context of its approved mission statement.
2. Offer an environment that emphasizes teaching excellence and meets the educational and personal needs of students through effective teaching, academic advising, counseling, and university-sponsored cultural, recreational, and extracurricular programs.
3. Offer a core of liberal studies that supports university degrees in the arts, letters, and sciences, as well as specialized professional/technical degrees at the associate and baccalaureate level.
4. Offer a program of pre-professional curricular offerings consistent with the university's mission.
5. Expect scholarly activity, including research, scholarship, and creative endeavor, that supports its programs at the associate and baccalaureate degree level, its selected graduate programs, and its approved mission statement.
6. Promote the integration of the extension function, assist the University of Wisconsin-Madison Extension in meeting its responsibility for statewide coordination, and encourage faculty and staff participation in outreach activity.
7. Participate in inter-institutional relationships in order to maximize educational opportunity for the people of the state effectively and efficiently through the sharing of resources.
8. Embrace and encourage student, staff, and faculty diversity in all areas and demonstrate a commitment to equity, diversity, and inclusion.
9. Support activities designed to promote the economic development of the state.

Accreditation

The University of Wisconsin-La Crosse is **accredited by**:

- The Association to Advance Collegiate Schools of Business
- Accreditation Council for Occupational Therapy Education
- Accreditation Review Committee on Education of the Physician Assistant
- American Society for Biochemistry and Molecular Biology
- Commission on Accreditation of Athletic Training Education
- Commission on Accreditation for Physical Therapy Education
- Council on Accreditation of Parks, Recreation, Tourism and Related Professions
- Council on Education for Public Health
- Joint Review Committee on Educational Programs in Radiologic Technology
- Joint Review Committee on Educational Programs in Nuclear Medicine Technology
- National Association of Schools of Music
- National Association for School Psychologists
- Higher Learning Commission (<https://www.hlcommission.org/>) (312.263.0456)
- Wisconsin Department of Public Instruction

State Authorization

UWL complies with regulations in other states to offer online education and clinical placement opportunities to students. This is often referred to as "state authorization."

UWL is part of the State Authorization Reciprocity Agreement (<http://nc-sara.org/>) (SARA).

California Residents: University of Wisconsin-La Crosse does not require licensure to offer courses and externships/clinicals in California.

File a Complaint

In compliance with U.S. Department of Education regulations, UWL provides information to students about their rights to make a complaint about the institution.

To file a complaint against the University of Wisconsin-La Crosse directly, students may learn about the UW System Complaint Process (<http://www.uwlax.edu/finaid/UW-System-Complaint-Process/>) for resolving complaints and complete the form (<https://www.wisconsin.edu/student-complaints/complaint-form/>) at the UW System website.

Professional Licensure Notice

If a student is planning to apply for licensure in a state other than Wisconsin after completion of their program, the student should refer to the Professional Licensure Disclosure (<https://www.uwlax.edu/info/professional-licensure-disclosure/>) website and contact the other state's appropriate licensing board to determine whether the UWL program meets licensure requirements in that state.

Please note that licensure requirements are always subject to change. Although the University of Wisconsin-La Crosse will confirm the licensure requirements on a routine basis, we strongly recommend that you inquire with the state board to confirm that you understand and will meet the requirements for licensure before enrolling in your program of choice.

Additionally, you should note that licensing requirements vary by state and relocating could impact whether you will meet eligibility requirements for licensure. Check with the state licensing board where you desire licensure before relocating to ensure that you will be eligible for licensure or reciprocity.

For individual Professional Licensure Disclosures, student location is determined by the active local address in the Student Information System (WINGS). All students are prompted to update their local address in the Student Information System (WINGS) each term.

Administration and Board of Regents

University of Wisconsin-La Crosse administration

Office of the Chancellor

- Chancellor - Joe Gow

Division of Academic Affairs

- Provost & Vice Chancellor, Academic Affairs – Betsy Morgan
- Associate Vice Chancellor, Academic Affairs – Sandy Grunwald

- Director of Murphy Library - John Jax
- Director of International Education and Engagement - Emelee Volden
- Director of Student Success - Jo Arney

College of Business Administration

- Dean – Taggart Brooks, Interim
- Associate Dean – vacant

College of Arts, Social Sciences, and Humanities School of Visual and Performing Arts

- Dean – Karl Kunkel
- Associate Dean – Charles Martin-Stanley
- Associate Dean – Marie Moeller

College of Science and Health

- Dean – Mark Sandheinrich
- Associate Dean – Gubbi Sudhakaran
- Associate Dean – Roger Haro

School of Education, Professional, and Continuing Education

- Dean – Marcie Wycoff-Horn
- Associate Dean – Adrienne Loh, Interim

Division of Student Affairs

- Vice Chancellor, Student Affairs – Vitaliano Figueroa
- Dean of Students – Greg Phlegar

Division of Diversity & Inclusion

- Vice Chancellor, Diversity & Inclusion – Barbara Stewart
- Assistant Vice Chancellor, Diversity & Inclusion/Affirmative Action Officer - Dina Zavala
- Director of Title IX and Compliance - Kara Ostlund, Interim

Division of Administration and Finance

- Vice Chancellor, Administration and Finance – Bob Hetzel
- Assistant to the Vice Chancellor - Robin Tuxen
- CIO, Information Technology Services - Bruce Maas, Interim
- Exec. Director, Facilities Planning & Management - vacant
 - Associate Director, Planning & Construction - Scott Schumacher
 - Assistant Director, Facilities Management - Scott Brown
- Director, Budget Office - Kristin Stanley
- Controller, Business Services - Sandy Chapman
- Director/Chief Human Resources Officer - John Acardo
- Chief of Police - Allen Hill

Division of University Advancement

- Vice Chancellor, University Advancement/UWL Foundation President - Greg Reichert

University of Wisconsin System Board of Regents

The University of Wisconsin-La Crosse is governed by the Board of Regents of the University of Wisconsin System. The Board of Regents as of July 2020:

- Drew Petersen, Madison, President
- Michael M. Grebe, Waukesha, Vice President
- Bob Atwell, Green Bay
- Scott Beightol, Whitefish Bay
- Amy Blumenfeld Bogost, Madison
- Héctor Colón, Milwaukee
- José Delgado, Brookfield
- Eve Hall, New Berlin
- Mike Jones, Milwaukee
- Tracey L. Klein, Brookfield
- Becky Levzow, Madison
- Edmund Manydeeds III, Eau Claire
- Cris Peterson, Grantsburg
- Corey Saffold, Whitewater
- Carolyn Stanford Taylor, Madison
- Karen Walsh, Madison
- Kyle M. Weatherly, Milwaukee
- Olivia Woodmansee, La Crosse

University of Wisconsin System administration

- Tommy Thompson, President (Interim)
- Anny Morrobel-Sosa, Vice President, Academic and Student Affairs
- David Brukardt, Associate Vice President, Corporate Relations and Economic Engagement
- Sean Nelson, Vice President, Finance
- Robert Cramer, Vice President, Administration
- Katie Ignatowski, Director of Compliance
- Quinn Williams, General Counsel
- Lori Stortz, Chief Audit Executive

University Academic Calendar

The academic calendar is based on semesters. Semester I (September through mid-December) and Semester II (January through mid-May) each contains 14 weeks of instruction plus one week of final exams. The standard class period is 55 minutes. Numerous workshops and special courses are offered throughout the year and may meet in an abbreviated time frame. Grades can be posted after a course has ended; however, official grade point averages are updated at the end of the term only.

There are two additional terms, winter intersession and summer. Winter intersession provides an intensive three-week term in January. The summer term consists of three four-week sessions, beginning in late May and ending in mid-August. The university provides many courses ranging from general education offerings to specialized courses for majors. There also are undergraduate and graduate level certification and update courses for school professionals and others. Undergraduate degree seeking students are encouraged to use the summer session to work out irregularities in their programs, to add courses beyond minimum requirements and to make up deficiencies. Complete graduate programs are available for those who wish to attend in summers only. A select number of programs require year-round attendance.

Academic calendar for current year (<http://www.uwlax.edu/Records/Dates-and-deadlines/>)

Graduate Program Directors

(Links below go directly to the program's outside website.)

Graduate Studies Office

Graduate Studies Office

Director: Meredith Thomsen (mthomsen@uwlax.edu)
223 Graff Main Hall
608.785.8245
gradstudies@uwlax.edu

College of Arts, Social Sciences, and Humanities

Doctor of Education (EdD)

Student Affairs Administration and Leadership (<http://www.uwlax.edu/Student-Affairs-Admin/>)
Director: Becki Elkins (belkins@uwlax.edu)
345 Morris Hall
608.785.6869

Master of Science in Education (MSED)

Student Affairs Administration-Higher Education
Director: Tori Svoboda (tsvoboda@uwlax.edu)
345 Morris Hall
608.785.6759

Master of Science in Education (MSED) Education Specialist (EdS)

School Psychology
Director: Robert Dixon (rdixon@uwlax.edu)
349A Graff Main Hall
608.785.6893

Master of Science (MS)

Cybersecurity
Director: Jennifer Butler Modaff (jbutlermodaff@uwlax.edu)
4219 Centennial Hall
608.785.6717

School of Education, Professional and Continuing Education

Master of Science in Education (MSED) Certificates

Add-on Certifications

Reading, non-certification (MSED)
Reading with Reading Teacher (1316) Certification (MSED)
Reading with Reading Specialist (5017) Certification (MSED)
Reading with Reading Teacher (1316) and Reading Specialist (5017) Certification (MSED)
Reading Teacher (1316) Certificate
Reading Specialist (5017) Add-On Certification
Director: Alyssa Harlan (aharlan@uwlax.edu)
264 Morris Hall
608.785.5409

Professional Development: Educational Leadership Emphasis (MSED)

Professional Development: Educational Leadership Emphasis and Director of Instruction Emphasis (MSED)

Educational Leadership Certificate

Director of Instruction Add-On Certification

Director: Bill Gillespie (bgillespie@uwlax.edu)
268 Morris Hall
608.785.5410

Professional Development: Learning Community Emphasis (MSED)

Professional Learning Community Certificate

Director: Pat Markos (pmarkos@uwlax.edu)
269 Morris Hall
608.785.5087

College of Science and Health

Doctor of Physical Therapy (DPT)

Physical Therapy (<http://www.uwlax.edu/physical-therapy-dpt/>)
Director: Patrick Grabowski (pgrabowski@uwlax.edu)
4066 Health Science Center
608.785.6623

Master of Science (MS)

Applied Statistics

Director: Melissa Bingham (mbingham@uwlax.edu)
1032 Cowley Hall
608.785.6682

Athletic Training

Director: Mark Gibson (mgibson@uwlax.edu)
213 Mitchell Hall
608.785.8190

Biology

Biology - Aquatic Science

Biology - Cellular & Molecular

Biology - Environmental Science

Biology - Physiology

Director: Anita Davelos (adavelos@uwlax.edu)
4032 Cowley Hall
608.785.8239

Biology - Nurse Anesthe (<https://www.uwlax.edu/grad/biology/nurse-anesthesia/>)jsia

Director: Jessica Peterson (peterson.jessica7@mayo.edu)
Mayo Clinic Health System Franciscan Healthcare
608.785.0940 ext. 2-2428

Clinical Exercise Physiology

Director: John Porcari (jporcari@uwlax.edu)
141 Mitchell Hall
608.785.8684

Data Science

Director: Jeffrey Baggett (jbaggett@uwlax.edu)
1026 Cowley Hall
608.785.8393

Exercise and Sport Science - Physical Education Teaching

Director: Zack Beddoes (zbeddoes@uwlax.edu)
152 Mitchell Hall
608.785.6524

Exercise and Sport Science - Physical Education Teaching: Adapted Physical Education Emphasis

Program Coordinator: Brock McMullen (bmcmullen@uwlax.edu)

216 Mitchell Hall
608.785.8167

**Exercise and Sport Science - Physical Education Teaching: Adventure/
Outdoor Pursuits Emphasis**

Program Coordinator: Jenna Starck (jstarck@uwlax.edu)
219 Mitchell Hall
608.785.6535

Healthcare Administration

Director: Keely Rees (krees@uwlax.edu)
217 Mitchell Hall
608.785.8168

Information Technology Management

Director: Elizabeth Humrickhouse (ehumrickhouse@uwlax.edu)
118A Murphy Library
608.785.8738

Medical Dosimetry

Director: Nishele Lenards (nlenards@uwlax.edu)
4033 Health Science Center
608.785.6622

Microbiology (<https://www.uwlax.edu/microbiology-ms/>)
Microbiology - Clinical Microbiology (<https://www.uwlax.edu/clinical-microbiology-ms/>)
Director: Paul Schweiger (pschweiger@uwlax.edu) (pschweiger@uwlax.edu) (mhoffman@uwlax.edu)
3036 Cowley Hall
608.785.8254

Occupational Therapy

Interim Director: Laura Schaffer (lschaffer@uwlax.edu)
4043 Health Science Center
608.785.8462

Physician Assistant Studies

Director: Patricia Campbell (pcambell@uwlax.edu)
4039 Health Science Center
608.785.5067

Recreation Management (<http://www.uwlax.edu/recreation-management-ms/>)

Recreation Management: Professional Development

Director: Kate Evans (kevans@uwlax.edu)
2042 Health Science Center
608.785.8210

Therapeutic Recreation (<http://www.uwlax.edu/therapeutic-recreation-ms/>)

Director: Kate Evans (kevans@uwlax.edu)
2042 Health Science Center
608.785.8210

Master of Software Engineering (MSE)

Software Engineering (<http://www.cs.uwlax.edu/programs/graduate-mse/>)
Director: Kasilingam Periyasamy (kperiyasamy@uwlax.edu)
222 Wing Technology
608.785.6823

Admissions - Graduate

- Applying to graduate study (p. 11)
- Admission criteria (p. 11)
- Admission on probation (p. 11)
- Conditional admission (p. 11)
- International student admissions (p. 11)
- Special non-degree graduate students (p. 12)
- **Undergraduate enrollment in a graduate course policy**
- Graduate students admitted with academic course deficiencies (p. 12)
- Graduate re-entry (p. 12)

Applying to graduate study

Students seeking admission to graduate study must apply electronically by completing the UW System application (<https://apply.wisconsin.edu/>).

Application fee

In accordance with the University of Wisconsin System policies, graduate students applying to a graduate degree program must submit an application fee. The application fee is non-refundable, does not apply to graduate tuition, and cannot be waived. If enrollment is delayed, the application fee can be applied to the next two consecutive terms including summer session.

Academic records

It is the student's responsibility to make arrangements for official transcripts of previously established academic records (undergraduate and graduate) bearing the official seal of the institution(s) where course work was taken to be sent directly from the registrar of each institution to the UW-La Crosse Admissions Office. This includes college level courses taken while in high school.

UW-La Crosse accepts transcripts sent directly from the issuing institution(s) or through an electronic secure document sending service. Application fees and transcripts can be sent to:

Graduate Admissions Office
2320 Student Union
University of Wisconsin-La Crosse
1725 State Street
La Crosse, WI 54601
admissions@uwlax.edu

Admission criteria

Admission consideration to graduate study will be given to students who meet the following requirements:

For those seeking master's degrees:

- A baccalaureate degree from a regionally accredited institution.
- An overall undergraduate grade point average of at least 2.85 on a 4.0 scale, an average of at least 3.00 in the last half of all undergraduate work, or an average of at least 3.00 for no less than 12 semester credits of graduate study at another accredited graduate school. Some programs have higher grade point average admission requirements.
- Departmental or school/college admission to enter the graduate program. Many graduate programs require additional supplemental

application materials. Please refer to the website of the specific program for details.

- Satisfactory scores in all tests required by the program, department, or college. Please refer to the program website for test requirements. The UW-La Crosse GRE Institutional Code is 1914.

For those seeking doctorate or post-master's degrees:

- A baccalaureate degree and/or a master's or doctorate degree from a regionally accredited institution.
- An overall baccalaureate, master's, post-master's, or doctorate degree grade point average of at least 3.0 on a 4.0 scale is required for admission to the Ed.S. (p. 76) and DPT (p. 59) degree programs. The Ed.D. (p. 104) requires an overall grade point average of at least 3.25.
- Departmental or school/college admission to enter the graduate program. Many graduate programs require additional supplemental application materials. Please refer to the website of the specific program for details.
- Satisfactory scores in all tests required by the program, department, or college. Please refer to the program website for test requirements. The UW-La Crosse GRE Institutional Code is 1914.

For more information, including a list of graduate program websites, please visit the Office of Graduate Studies (<http://www.uwlax.edu/graduate-studies/>). For questions about admission to the university, contact the Admissions Office (<http://www.uwlax.edu/admissions/>).

Admission on probation

Students may be admitted on probation if they do not meet the minimum academic or graduate program admission requirements. Upon completion of nine graduate credits or two terms (whichever comes first) with a grade point average of 3.00 or above, the student will be removed from probation. Students admitted on probation will be dismissed from graduate study if their cumulative GPA is below 3.00 after completing nine graduate credits or two terms (whichever comes first).

Conditional admission

Students may be conditionally admitted to a graduate program while they are in the process of completing their undergraduate or master's degree. Final admission is contingent upon maintaining their cumulative grade point average and submission of an official final college transcript from the college they are attending showing the conferment of their degree. The final official transcript is due 15 days after the degree is posted.

International student admissions

International applicants seeking graduate admission to UWL should follow the instructions below.

Application: Complete the UW System online application (<https://apply.wisconsin.edu/>) for graduate study and pay the graduate application fee.

Academic records: Official, certified or attested copies of academic records from all post-secondary institutions attended are required, even if the program was not completed. Documents issued in languages other than English must be accompanied by certified English translations.

Proof of English language proficiency: Applicants for graduate study who are not native speakers of English must meet one of the following for admission:

- Official TOEFL score of at least 79 iBT or 550 pBT - Institution Code: 1914.^{1, 2}
- Official IELTS score of at least 6.0.²
- Official PTE (Pearson Test of English) score of at least 60.²
- A bachelor's or higher degree from UWL or another approved institution where English is the sole language of instruction may also fulfill this requirement.
 - Degree must be earned within two years of expected enrollment at UWL.
 - Applicant must have attended the institution for a minimum of two years.
- Other examinations and educational experiences considered on a case-by-case basis and approved through university governance.

¹ Graduate program directors may require graduate students with scores of 550 or above to take the La Crosse Battery placement exam (<http://catalog.uwlax.edu/undergraduate/englishasasecondlanguageesl/#battery>).

² Scores cannot be more than two years old.

Program specific requirements: Many graduate programs require additional application materials. Applicant should contact the graduate program directly about additional requirements.

Proof of funding: Bank statement and signed affidavit of support. Funding must be equal or greater than International Education & Engagement's estimated costs (<https://www.uwlax.edu/cost/>) for one year (two semesters) of graduate study. Students who require F-2 visas for dependents (spouse and/or children) must submit additional proof of funding and passport copies for each dependent.

Passport copy: Submit a photocopy of the biographical data in the applicant's passport. If the applicant is admitted to a program, this will ensure that immigration documents are issued accurately.

Application materials can be sent to:

Admissions Office
2342 Student Union
University of Wisconsin-La Crosse
1725 State Street
La Crosse, WI 54601
USA

For more information on international student admissions, visit the Admissions Office (<https://www.uwlax.edu/admissions/learn-how-to-apply/international-student/>).

Special non-degree graduate students

Students with a bachelor's degree seeking to enroll in graduate courses for which they are qualified but not wishing to pursue a graduate degree may be admitted with special non-degree graduate student status. Special non-degree graduate students either may receive academic credit for courses successfully completed or may choose to audit. Auditors usually are not responsible for attendance or exams and therefore do not receive academic credit or grades for completed courses.

To apply for special non-degree graduate admission, complete the appropriate UW System application (<https://apply.wisconsin.edu/>). Application fees and transcripts are not required. Students admitted as special non-degree graduate students register for classes after graduate degree seeking students and are not eligible for financial aid.

If special non-degree graduate students seek admission to a degree program at a later date, they must complete and submit a new application as a degree-seeking student. They may be considered for admission provided they have maintained a "B" average in graduate work and have met all other program requirements. No more than 12 credits earned as a special non-degree graduate student may be applied toward a degree program at the University of Wisconsin-La Crosse. Further, deans and/or program directors/coordinators may accept or reject credit taken as a graduate special non-degree student.

University undergraduate enrollment in graduate courses policy

Undergraduate students with senior status (at least 90 credits) who have at least a 3.00 cumulative grade point average, may enroll in a maximum of six graduate credits. These graduate level credits may not be used to satisfy requirements for a bachelor's degree. Exceptions to these requirements must be approved by the Graduate Council. Maximum student credit load for dual enrollment (graduate/undergraduate) is 15 credit hours for a semester and eight credit hours for a summer term (standard university overload approval process applies).

Students must submit written permission from the course instructor and their advisor, along with a graduate special non-degree application, to the Admissions Office prior to registering for a graduate course. Undergraduate tuition and fees are charged. Students in dual-degree programs must complete the graduate program application process and pay graduate tuition fees. Students are expected to purchase texts for graduate courses.

Graduate students admitted with academic course deficiencies

Students with course deficiencies, who have been provisionally admitted to a graduate program, may be classified with the appropriate special student designation and, at such time as the deficiencies are removed, may be admitted to the graduate program with the appropriate graduate classification. Such students would be exempt from the "12 credits earned as a special student" restriction.

Graduate re-entry

If students voluntarily interrupt university enrollment for one semester or longer (excluding summer) while in good academic standing, re-entry status may be granted by applying to the graduate program director, through the Office of Records and Registration. Applications should be made as early as possible but not later than one month prior to the beginning of the planned term of re-enrollment. Applications will be accepted until the enrollment limits have been reached.

Graduate Assistantships

The University of Wisconsin-La Crosse offers a variety of graduate assistantships (GAs). Graduate assistantships include teaching (TA), research (RA), and program (PA) assistantships. Graduate assistantships are awarded by the academic program/departments and by a number of other campus offices. Only students who are admitted and remain in good academic standing (<http://catalog.uwlax.edu/graduate/academicpolicies/academiceligibility/>) are eligible for a graduate assistantship. The student must have completed a bachelor's degree and be enrolled at UWL for graduate credit or for GRC 799 to be eligible. Online graduate students are eligible for GAs. Graduate assistantships are awarded on a very competitive basis according to the requirements of the position. Students may be awarded a graduate assistantship for no more than four semesters and two summers. Requests for exceptions to this policy should be submitted to the dean of the college in which the graduate program resides.

Interested applicants and current students should communicate directly with the department of intended degree work for more information about graduate assistantships. Available graduate assistant positions (https://employment.uwlax.edu/postings/search/?amp;query=&621=5&query_organizational_tier_3_id=any&query_v6_posted_at_date=&commit=Search/) are posted on the Office of Human Resources' website. The Financial Aid Office does not administer the graduate assistantship program.

Assistantships are available to resident and non-resident students. All students employed as graduate assistants on campus will at the minimum receive a waiver for a small portion of their resident tuition each semester, but remaining tuition and fees are not waived for most graduate assistants. A limited number of non-resident tuition waivers are available, which cover some or all of a student's non-resident tuition costs. The in-state portion of graduate tuition is not covered by a non-resident tuition waiver.

Teaching assistant positions are available in several departments which include a payment to cover a portion or all of in-state tuition costs.

Awards may be made for assistantships which require up to 20 hours of responsibilities per week during each semester of the academic year. Those with 14 or fewer assigned hours may carry up to 15 hours of graduate credit and those with 15- to 20-hour assignments should not exceed 12 graduate credits each semester.¹ Summer assistantships may be available.

UWL complies with the Council of Graduate Schools' *Resolution Regarding Graduate Scholars, Fellows, Trainees, and Assistants* which follows:

"Acceptance of an offer of financial support (such as graduate scholarship, fellowship, traineeship, or assistantship) for the next academic year by a prospective or enrolled graduate student completes an agreement that both student and graduate school expect to honor in that context. The conditions affecting such offers and their acceptance must be defined carefully and understood by all parties.

Students are under no obligation to respond to offers of financial support prior to April 15; earlier deadlines for acceptance of such offers violate the intent of this Resolution.² In those instances in which a student accepts an offer before April 15, and subsequently desires to withdraw that acceptance, the student may submit in writing a resignation of the appointment at any time through April 15. However, an acceptance given or left in force after April 15 commits the student not to accept another offer without

first obtaining a written release from the institution to which a commitment has been made. Similarly, an offer by an institution after April 15 is conditional on presentation by the student of the written release from any previously accepted offer. It is further agreed by the institutions and organization subscribing to the above Resolution that a copy of this Resolution should accompany every scholarship, fellowship, traineeship, and assistantship offer."

- ¹ Student workers may work up to the maximum of 25 hours per calendar week (Sunday through Saturday) during the academic year. Students may work full time during any week when classes are not in session. Periods during which "classes are not in session" include summer breaks, winter intersession, and spring break. Students enrolled in winter intersession or summer classes may work full time during those periods. A student may work a maximum of 1559 total hours in a rolling twelve-month period. (Until notified otherwise, there is a temporary exception to the hours cap granted for resident assistants, resident advisors, and resident counselors.) Student workers hours are aggregated for purposes of the ACA Employer Mandate and IRS reporting among all institutions in the UW System. Thus, a student worker's hours will be combined for all employment positions in more than one university department or more than one UW institution. Hours worked due to a Federal Work Study (FWS) program do not count toward the calculation of hours of service earned for purposes of the ACA.
- ² This deadline assumes a program begins in fall semester. Programs beginning earlier may have an earlier acceptance date.

Additional related information

Financial Aid: Graduate financial aid is awarded based on university enrollment status of degree seeking student. Students must be enrolled in at least five credits within a single semester or five credits during the summer to be eligible for financial aid. Students must be enrolled in at least nine credits within a single semester or nine credits during the summer to be considered full-time. Credits must be applicable to the student's declared degree program. Financial aid is reduced accordingly for students enrolled less than full-time, but at least half-time (five credits).

International Students: International students interested in an assistantship must also satisfy the enrollment requirements of their student visa. More details can be found under the international graduate student credit load (p. 23) section of the catalog.

Extended Learning

Interim Director: Lynn Weiland

220 Morris Hall

608.785.6500 or 866.895.9233

Email: ex@uwlax.edu

www.uwlax.edu/ex (<https://www.uwlax.edu/ex/>)

University of Wisconsin-La Crosse Extended Learning (UWLEX) works with faculty and departments to extend the instructional, research, and public service resources of UWL to individuals and organizations in western Wisconsin communities and in other parts of the state. Some programs attract national and international audiences.

Graduate and undergraduate credit courses are offered off campus for part-time students, primarily K-12 educators, and health and human service professionals. Online bachelor's degree completion programs and master's degree programs are offered in collaboration with UW Extended Campus.

Conferences, workshops and other non-credit instructional programs are conducted for selected professional audiences, as well as the general public. Continuing education units (CE units) or health education continuing education contact hours (CECHs) are awarded when appropriate.

Science, humanities, and arts enrichment classes also are offered for upper elementary, middle, and high school students. Test preparation courses are also offered for ACT, GRE, GMAT, and LSAT.

Credit outreach courses and most non-credit instructional programs are offered in partnership with UW Extended Campus. Distance learning technologies are used for selected audiences.

UWL Extended Learning staff work with faculty and off-campus individuals to host conferences and annual meetings of professional associations and other organizations.

Degree programs

Online graduate degree programs

Collaborative programs:

- Cybersecurity - Master of Science
 - In collaboration with UW-Green Bay, UW-Oshkosh, UW-Parkside, UW-Platteville, UW-River Falls, UW-Stevens Point, and UW-Superior
 - Master of Science in Cybersecurity collaborative program (<https://uwex.wisconsin.edu/cybersecurity/>)
 - UW-La Crosse curriculum (p. 42)
- Data Science - Master of Science
 - In collaboration with: University of Wisconsin-Extended Campus, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point and UW-Superior
 - Master of Science in Data Science collaborative program (<http://datasciencedegree.wisconsin.edu/>)
 - UW-La Crosse curriculum (p. 72)
- Healthcare Administration - Master of Science
 - In collaboration with: UW-Eau Claire, UW-La Crosse, UW-Parkside, UW-Platteville, UW-Stevens Point, and UW-Stout

- Master of Science in Healthcare Administration collaborative program (<https://healthcareadministration.wisconsin.edu/>)
- UW-La Crosse curriculum (p. 50)
- Information Technology Management - Master of Science
 - In collaboration with: UW-Oshkosh, UW-Parkside, UW-Stevens Point, UW-Stout, and UW-Superior
- Master of Science in Information Technology Management collaborate program (<https://itmanagement.wisconsin.edu/>)
- UW-La Crosse curriculum (p. 66)

UWL online program:

- Recreation Management - Professional Development - Master of Science
University of Wisconsin-La Crosse's fully online Master of Science in Recreation Management - Professional Development (<https://www.uwlax.edu/conted/rec-management-ms/>) is a versatile program that will enrich your professional experience and inspire you to achieve more. Focused on advanced management skills, this program empowers professionals currently working in the field to build on a base of recreation education and/or experience to advance knowledge, skills and careers.
 - Admission & program requirements (p. 81)
 - Sample degree plan (p. 82)
-

Expenses, Financial Aid, & Scholarships - Graduate

Paying for tuition is a significant concern for most students, and the university continually strives to provide options for those who may be struggling or who have questions. The following offices or groups are available to help students overcome the challenge of paying for college.

(Links in following list go to the office's outside webpage. Links in last paragraph go to the topic's catalog page.)

- Financial Aid Office (<http://www.uwlax.edu/finaid/>)
- UWL Foundation (<https://www.uwlax.edu/foundation/>)
- It Make\$ Cents! (<https://www.uwlax.edu/it-makes-cents/>)
- Veterans Educational Benefits Office (<http://www.uwlax.edu/veteran-services/>)
- Cashier's Office (<http://www.uwlax.edu/cashiers/>)

The University of Wisconsin-La Crosse offers a wide array of merit-based, need-based, and non-need based financial assistance for graduate students. The Financial Aid Office is the best resource for most of this information, but the Expenses (p. 15), Financial aid & scholarships (p. 15), and Veteran benefits (p. 16) sections also offer graduate students a brief look at financial options and further resources.

Expenses - Graduate

Expenses and Financial Aid

Graduate program students **may** be required to pay a non-refundable **enrollment deposit** to hold their place. Contact the specific program for requirements.

All students are charged a non-refundable **registration fee** each term they register for one or more courses. If a student drops all classes before the term begins, the student is still responsible for this fee.

For more information on graduate tuition and fee information, visit the Cashier's Office (<http://www.uwlax.edu/cashiers/>).

Textbooks

Graduate students are required to purchase textbooks for all courses they are enrolled in (including slash courses). Graduate students are not eligible to use Textbook Rental Services.

Graduate student textbooks may be purchased (based on availability) through the University Bookstore. For more details and to review the textbook policies/procedures, visit the UWL Bookstore's information for graduate students (<https://www.uwlax.edu/textbook-rental/graduate-students/>).

Financial Aid & Scholarships - Graduate

- Eligibility requirements (p. 15)
 - **Credit load required for financial aid**
- Application procedures (p. 15)

- Notification dates (p. 16)
- Financial aid programs (p. 16)
- Satisfactory academic progress standard (p. 16)
- Scholarships and awards (p. 16)
- Further resources (p. 16)

Eligibility requirements

Need-Based Aid: Many financial aid programs are based on financial need as demonstrated by the application of a federal need-analysis formula to the student financial information provided on the Free Application for Federal Student Aid (FAFSA). Need-based programs include Advanced Opportunity Program, Non-Resident Tuition Waivers, and Native American Indian Grants.

Non-Need-Based Aid: Exceptions to the financial need requirement include Federal Direct Unsubsidized Loans, Federal Direct Graduate PLUS Loans, and private student loans for higher education. For more information, visit the Financial Aid Office (<http://www.uwlax.edu/finaid/>).

Merit-Based Aid: Graduate assistantships are merit-based and do not require the demonstration of financial need. Graduate scholarships are also merit-based and in most cases do not require financial need. International student scholarships are merit-based and subject to a special need analysis administered by the Office of International Education.

Academic Requirements: Admission to the university is a prerequisite to consideration for financial aid. Special non-degree students are not eligible for aid unless they are working for a qualifying, approved teacher certification or certificate. Add-on teaching certifications are not eligible for federal aid. Students must demonstrate satisfactory academic progress in order to receive aid. Full-time status is required for many programs; less-than-half-time status will disqualify the student from all programs. For graduate students, nine credits is considered full-time and five credits is considered half-time for the fall, spring and summer sessions.

Other Federal and State Requirements: These include proper citizenship status, registration with the Selective Service System, and not being in default on any federal student loan. See the withdrawal from the university (p. 26) policy for additional requirements. Awards are subject to change at any time pursuant to changes in state or federal funding levels or regulatory mandates.

Credit Load Required for Financial Aid

Graduate financial aid is awarded based on university enrollment status of degree seeking student. Students must be enrolled in at least five credits within a single semester or five credits during the summer to be eligible for financial aid. Students must be enrolled in at least nine credits within a single semester or nine credits during the summer to be considered full-time. Credits must be applicable to the student's declared degree program. Financial aid is reduced accordingly for students enrolled less than full-time, but at least half-time (five credits).

Application procedures

Financial aid applicants must submit the Free Application for Federal Student Aid (<https://studentaid.ed.gov/sa/fafsa/>) (FAFSA) to the Federal Central Processing System. Applications are accepted throughout the academic year. File the FAFSA by February for priority

consideration although applications are accepted throughout the academic year.

Notification dates

New students who complete their application by the February 1 priority date can usually expect to receive a financial aid offer by mid-May. Students who complete this application after February 1 will receive a financial aid offer as soon as possible after May. Applications received after June 1 may not be processed in time for students to receive their aid by the start of the fall semester. These students should be prepared to pay their initial expenses from their own resources.

Financial aid programs

Information concerning the various types of financial aid is available underneath "Graduate & professional students" in the Financial Aid Office (<http://www.uwlax.edu/finaid/>).

Satisfactory academic progress standard

Information regarding UWL's satisfactory academic progress policy (<https://www.uwlax.edu/finaid/graduate-and-professional-students/understand-satisfactory-academic-progress-sap/>) is available in the Financial Aid Office.

Scholarships and awards

Many scholarships (<https://www.uwlax.edu/scholarships/scholarships/foundation-scholarships/>) and awards have been established by alumni, faculty and staff, parents, students, businesses, and organizations. Recipients are selected by scholarship committees on the basis of an application, grade point average, and other materials as deemed appropriate by departmental committees. Scholarships are presented to students whose qualifications best fit the stipulations of the donor. Approximately one million dollars is awarded each year. Amounts vary annually based on funding from gifts or investment earnings available from a fund.

Almost all scholarships are contingent upon full-time enrollment both fall and spring semesters at UWL. Scholarships and awards are usually disbursed in two payments for the academic year, the first half in the fall semester and the other half in the spring semester.

A scholarship application is also available to currently enrolled students at the UWL Foundation Office (<https://www.uwlax.edu/foundation/>), Cleary Alumni and Friends Center. This application covers all scholarships unless otherwise stated. Some require specific applications. All applications (unless otherwise indicated) must be submitted to the UWL Foundation Office. Applications are submitted to various offices that offer scholarships based on academic majors. The deadline for scholarship applications is February 1 each year, unless otherwise indicated. Scholarships and awards are announced during college and general events the last week in April. Visit the University of Wisconsin-La Crosse Foundation, Inc. for information about the scholarships they administer (<https://uwlax.academicworks.com/>) or call 608.785.8005.

Further resources

- For more information regarding student financial aid programs, visit the Financial Aid Office (<http://www.uwlax.edu/finaid/>) (215 Graff Main Hall) or contact Financial Aid at 608.785.8604 or finaid@uwlax.edu.
- For more information about graduate scholarships, visit the UWL Foundation (<https://www.uwlax.edu/foundation/>) (Cleary Alumni

and Friends Center) or contact the Foundation at 608.785.8489 or foundation@uwlax.edu.

- For more information about graduate assistantships, contact (p. 9) the Director of Graduate Studies or the graduate program director.

Veteran Benefits

The university is fully approved for the education of veterans and veterans' dependents under both federal and state programs. New students who qualify for benefits should report to the Veterans Educational Benefits Coordinator (<https://www.uwlax.edu/veteran-services/our-people/>) in the Office of Records and Registration, 116 Graff Main Hall, after class registration. After this initial contact, registered students should keep the benefits coordinator apprised of their status and needs each semester.

To receive support from veteran programs, after registering for classes each semester, a student is required to report to the Veterans Benefits Coordinator to complete a certification request form (<http://www.uwlax.edu/Veteran-Services/Certification-request/>). The university certifies attendance and credit load to the Veterans Administration based on the certification request. Only courses that satisfy degree requirements can be certified for VA educational benefits.

Payments of veterans' benefits depend on the number of credits carried. Graduate students should carry at least nine credits during the semester to receive full benefits under most programs. Payment will be awarded according to the schedule below. Contact the Veterans Benefits Coordinator for summer term rules.

Table to determine % of benefits

Graduate credits	Enrollment/benefits status
9+	Full-time
7-8	3/4 time
5-6	1/2 time

More information can be found in the Veterans Educational Benefits Office (<http://www.uwlax.edu/veteran-services/>) and the Office of Records and Registration (<https://www.uwlax.edu/records/student-resources/veteran-students/>).

Academic Policies - Graduate

Academic policies define what the institution expects from the students and what students may expect from the institution in terms of academic behavior. Graduate academic policies are developed and approved through the university's governance system by the Graduate Council. Graduate Council membership includes representation from both faculty and students.

Below is a guide to help navigate through the graduate academic policies.

Academic eligibility

- Graduate probation and retention standards (p. 17)
- Readmission to a program after dismissal (p. 18)
- Appeals process for graduate students not re-admitted by graduate programs (p. 18)
- The Graduate Council (p. 18)

Academic records/FERPA

- Access to academic records (p. 19)
- Name and address changes (p. 19)
- Federal Educational Rights and Privacy Act (FERPA) (p. 19)

Course information

- Graduate course grade and course repeat policies (p. 19)
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Academic Eligibility - Graduate

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Graduate probation and retention standards

All graduate students, including those in non-degree study, are expected to meet and maintain the academic standards below.

Good standing

1. Students admitted unconditionally who maintain at least a 3.00 cumulative GPA will be in good standing.
2. Students admitted on probation who achieve and maintain at least a 3.00 cumulative GPA upon completion of nine graduate credits¹ will be in good standing.
3. Students who have been on probation and subsequently achieve and maintain at least a 3.00 cumulative GPA will be returned to good standing.
4. Programs may have more prescriptive policies including requirements for appropriate professional or clinical conduct, for sufficiency in professional skills, or other requirements that must

be clearly documented in their program guidelines and provided to students upon admission. For a list of programs with such policies students are encouraged to consult the Office of Graduate Studies.

Probation

1. Students admitted unconditionally who have a cumulative GPA less than 3.00 upon completion of nine graduate credits, or any time after, will be placed on probation. Such students must raise their cumulative GPA to at least 3.00 within the next nine credits or two terms (whichever comes first) in order to continue in graduate study.
2. Students admitted on probation must have at least a 3.00 cumulative GPA after completing nine graduate credits in order to continue in graduate study.
3. Students who have been on probation and subsequently removed from probation will be returned to probationary status if their cumulative GPA falls below 3.00. Such students must raise their cumulative GPA to at least 3.00 within the next nine credits or two terms (whichever comes first) in order to continue in graduate study.
4. Programs may have more prescriptive policies and other conditions that could trigger probation (see #4 under "Good Standing" above).

Dismissal

1. Students admitted unconditionally, who subsequently were placed on probation, will be dismissed from graduate study if their cumulative GPA is below 3.00 after completing nine graduate credits or two terms (whichever comes first) while on probation.
2. Students admitted on probation will be dismissed from graduate study if their cumulative GPA is below 3.00 after completing nine graduate credits.
3. Students will be dismissed from graduate study if their semester GPA is less than 3.00 at any time while on probation after completing the initial nine credits.
4. Students who earn a "D" or "F" in a graduate course will be dismissed from graduate study.
5. Programs may have more prescriptive policies and other conditions that could trigger dismissal (see #4 under "Good Standing" above).

¹ Graduate credits are defined as course credit offered at the 500-level or above, or any course accepted as part of the requirements for a graduate degree.

Readmission to a program after dismissal

A student who has been dismissed from their graduate program may request readmission by making an appeal to his or her graduate program. The student should also consult with his/her program director and/or the Office of Graduate Studies for advice and help with how to proceed.

If the student's program finds compelling evidence to warrant an exception to the policy, one can be granted upon written notification to the Office of Graduate Studies, the office of the dean of the college that houses the program, and to the Office of Records and Registration. Students granted an exception are readmitted to the graduate program, though readmission can result in a student being placed on probation.

If the program is unwilling to support readmission, the student should again consult the Office of Graduate Studies to discuss the possibilities for any further action.

Appeals process for graduate students not re-admitted by graduate programs

1. The decision of a graduate program on readmission of a student that has been dismissed is considered to be final.
2. If a student feels that their graduate program did not follow its written procedures in not supporting his or her request for readmission, that student may appeal to Graduate Council for a hearing on due process.
 - a. The Graduate Council *will only consider due process appeals* (i.e., cases where a graduate program is thought to have acted contrary to its written procedures), and does not consider any other evidence for exceptions to the dismissal policies of a graduate program.
 - b. For the purposes of due process appeal, a graduate program is assumed to use the standards of the graduate catalog for probation or dismissal, unless the program has additional prescriptive policies documented in their program guidelines, bylaws, or other equivalent documents that supersede those of the catalog. Such documents should be available to students in the program and on-file in the office of the dean of the college for that graduate program, and provided to the Graduate Council prior to any due process appeal.
 - c. If the Graduate Council finds that a program's decision was inconsistent with that program's written procedures, then the program must reconsider the request for readmission and base a new decision on the program's written procedures.
 - d. If the program's decision is deemed by Graduate Council to be consistent with written procedures, then that program's decision remains final.
3. Students who have been dismissed from a graduate program can apply to the Office of Graduate Studies for "special non-degree status" or seek admission to another graduate program. However, being accepted to special non-degree status or to another graduate program after dismissal is rare and should not be expected.
4. Students who are not accepted for special non-degree status or accepted to another program are dismissed from the university.

The Graduate Council

Duties and responsibilities of the committee shall include:

1. Establishing, in consultation with departments and/or colleges, academic standards pertaining to graduate study, including policies for graduate student admission, honors recognition, retention, probation, dismissal, and readmission.
2. Determining the procedures and criteria for selecting members of the graduate faculty and annually approving an updated roster of members of the graduate faculty.
3. Formulating procedures for hearing graduate student appeals and petitions on academic policy matters not resolved by administrative offices of the university.
4. Studying long-range issues related to any aspect of graduate studies and recommending how and by whom these issues should be addressed.

Membership of the committee shall consist of nine graduate faculty. The faculty membership shall include at least one representative from each of the College of Science and Health, the College of Business Administration, and the College of Arts, Social Sciences, and Humanities. At least one representative from each college shall be either a graduate program director or a member of a department participating in a graduate program. In addition, the Chair of the Graduate Curriculum

Committee, and two graduate students shall serve as members. The academic deans or their designated appointees, the Associate Vice Chancellor for Academic Affairs, and the Registrar shall serve as administrative consultants to the committee. The committee shall elect its chairperson.

Revised 2012 by Faculty Senate (<https://www.uwlax.edu/faculty-senate/committees/faculty-committees/policy/#tm-graduate-council>).

The Graduate Council also has oversight for the following policies:

- Time limit for degree completion.
- Program exceptions for English proficiency requirements.
- Requirements for graduate assistantships.
- Graduate probation and retention. (Graduate Council hears as a due process appeal.)
- Continuous registration.
- Medical withdrawal from courses/university.

Academic Records/FERPA - Graduate

Access to academic records

Academic records are confidential between the student and the university. Students may request transcripts of their permanent academic records at any time, provided they are not financially encumbered to the university. Transcripts may be requested **in person**, online (<https://www.credentials-inc.com/CGI-BIN/dvcgitp.pgm?ALUMTRO003919/>), or by writing (<https://www.uwlax.edu/globalassets/offices-services/records/forms/MailTranscriptForm.pdf>) to the Office of Records and Registration. There is a fee for official transcripts. Transcripts will not be released without the student's authorizing signature. Under no circumstances will partial transcripts be issued.

Name and address changes

It is the student's responsibility to keep appropriate offices advised of changes. Campus (local) or permanent home (legal) addresses may be changed through a student's WINGS Student Center. Official name changes must be done in the Office of Records and Registration, 117 Graff Main Hall, with proper identification and documentation.

FERPA

For details, review the university's policy and implementation of the Family Education Rights and Privacy Act (<http://www.uwlax.edu/Records/FERPA/>) (FERPA).

Course Information - Graduate

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Courses listed in this catalog are subject to change through normal academic procedures. New programs/courses and changes in existing course work are initiated by departments or individual programs and approved by the appropriate academic dean, the Graduate Curriculum Committee, and the Faculty Senate. Additions to the

curriculum for the ensuing years are published in the official Graduate Curriculum Committee minutes (<https://www.uwlax.edu/faculty-senate/committees/faculty-committees/curriculum/>) by Faculty Senate and are on file with the Office of Records and Registration.

Many course descriptions list the semester/year during which a course is normally offered. This serves as a guide; however, actual offerings may vary depending on staffing levels and enrollment demands.

A course marked "repeatable for credit" may be repeated for credit only once unless otherwise specified. See the graduate course repeat policy (p. 19) for information on repeating a course to improve one's grade.

Graduate course grade policy

To successfully complete a course at the graduate level, a grade of "C" (or better) or "P" must be earned. No graduate credit will be applicable to a degree for courses completed with grades below "C."

Graduate course repeat policy

A graduate student can repeat up to two courses once in which a grade of "C" or lower was earned and with the permission of the program director. The new grade will replace the original grade in the GPA calculation. Both grades will appear on the academic record.

Cross-listed courses

A course offered by more than one department that has the same course description, credits, and title but different prefixes (e.g., ECO/THA 376; BIO/MIC 714) is a cross-listed course. Students may earn credit only once for taking a cross-listed course.

Graduate course numbering policy

Almost all of the courses in the 500 series are "slash" courses; they are graduate courses with a companion number in the 400 series and are open to upper level undergraduates who have earned at least 60 credits and graduate students. All courses with numbers in the 600, 700, 800, or 900 series are for graduate students only.

Students in all graduate degree programs must earn at least one-half of the minimum number of semester credits required in their program in graduate-only level courses.

Course prerequisites

Course prerequisites, listed in the course description, indicate the academic preparation required for successful completion of the course. Occasionally students may have sufficient knowledge to enter courses without the formal prerequisites. In these circumstances, students may ask instructors for consent to enroll; all instructors retain the right to admit any student to their classes, subject to departmental policy. Students who do not meet the stated prerequisite(s) or the required class standing must obtain permission to enroll in a class. Students will not receive credit for courses for which they do not have the appropriate class standing, specified prerequisites, or permission to override the requirements.

Curriculum requirements

Specific course requirements (curriculum) for the various programs are included with each individual program's description, under the graduate degrees & program requirements (p. 32) section in the catalog.

Additional university requirements for a graduate degree are included in the university's graduate degree requirements policy (p. 31).

Graduate Curriculum Committee

The Graduate Curriculum Committee (UCC) is the curriculum review faculty body for all academic programs at the graduate level. Membership of this committee consists of nine faculty, with proportional representation by college, and three students. The Provost, Registrar, Director of Graduate Studies, Director of the Library, and the dean of each college serve as administrative consultants.

A full copy of the GCC bylaws is on the Faculty Senate's articles and bylaws (<https://www.uwlax.edu/faculty-senate/articles-bylaws-and-policies/>).

Grading System and Policies - Graduate

- University grading system (p. 20)
- Pass/fail policy (p. 21)
- Final exams policy (p. 21)
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University grading system

Scholastic standing is determined by the grade point system. Grade points are used to determine an official scholastic average for each student. A semester grade point average is calculated by dividing the grade points earned by the number of credits attempted that semester. The cumulative average is the total number of grade points earned divided by the total number of credits attempted. GPAs are not rounded; they are truncated at two digits and a zero is added as the third digit for all students.

UWL grade point averages are determined only by grades in UWL courses. Probationary status and grade point deficiencies of students already matriculated at UWL may not be improved by enrolling in courses at other institutions.

Grading scale

Effective January 1994, the university adopted a seven-step grading scale with point values assigned as follows:

Letter	GPA
A	4.00 grade points/credit
AB	3.50 grade points/credit
B	3.00 grade points/credit
BC	2.50 grade points/credit
C	2.00 grade points/credit
D	1.00 grade points/credit
F	0.00 counted as credits attempted

Additional university grades and grade points used but not part of the grading scale:

Letter	GPA
I	incomplete / 0 (not counted as credits attempted)
IP	in progress / 0 (not counted as credits attempted)
W, WP	withdraw passing / 0 (not counted as credits attempted)
WF	withdraw failing / 0 (counted as credits attempted, averaged into GPA)
EP ¹	emergency withdrawal / passing / 0 (not counted as credits attempted)
EF ¹	emergency withdrawal / failing / 0 (not counted as credits attempted)
AS	audit satisfactory / 0 (not counted as credits attempted)
AU	audit unsatisfactory / 0 (not counted as credits attempted)
S ²	satisfactory / 0 (counted as credits attempted)
U	unsatisfactory / 0 (not counted as credits attempted)
P ²	pass / 0 (counted as credits earned)
F	fail / 0 (counted as credits attempted; averaged into GPA)
F01 - F14	not active / 0 (counted as credits attempted; averaged into GPA). Student did not withdraw from the course officially, but failed to participate in course activities through the end of the period. There is insufficient evidence to make possible a meaningful evaluation of academic performance. The appropriate grade from the F01 to F14 range will appear as an "F" on the student record.
NR	no report / 0 (not averaged into GPA; the "NR" grade is posted for all missing grades)
PR ³	in progress for dissertation, thesis, seminar paper, culminating projects / 0 (not counted as credits attempted)

¹ The faculty Committee on Academic Policies and Standards (<http://catalog.uwlax.edu/undergraduate/academicpolicies/academiceligibility/#committee-academic-policies-standards>) has established EP and EF as grades that are to be utilized only for the emergency medical withdrawal of students and military call-ups. These grades will be recorded on the permanent academic record to indicate level of performance at the time of withdrawal; however, such grades will not be averaged into the student grade point average.

² A grade of "P" or "S" awarded at the undergraduate level is equivalent to a grade of "C" or better.

³ The "PR" grade is only used at the graduate level.

University pass/fail policy

1. Credits taken on a P/F basis will not be averaged into a grade point average if "P" is filed by the instructor. The credits will count as credits earned. An "F" will be averaged in and will be counted as credits attempted.
2. Specific courses are approved for pass/fail grading. Students do not have the option to request a graded course be taken as P/F.
3. A maximum of 21 credits of P/F course work can be used toward an **undergraduate** degree.
4. UWL does not accept **graduate** transfer credit from other institutions in which a grade of "pass" was earned.

Students should realize that P/F graded courses might not be accepted in transfer to other institutions of higher learning. Professional schools are especially reluctant to accept P/F graded course work.

Some employers, principals, and/or superintendents may be unable to acknowledge credits or reward employees, especially graduate students working on advanced degrees, when course work has been taken under the P/F grading system.

Graduate final exams policy

A finals week exists to allow students time to read, review, write, integrate, synthesize, and collaborate to maximize the student learning outcomes of courses. Instructors are encouraged to use finals week for significant papers, assignments, exams (cumulative or not; take-home or in class), etc. in order to allow students the maximum time to distribute their workload and attend to quality. For the sake of student learning, the last week of classes should not be used as a proxy for finals week.

A final examination will be given in each course within a special examination period except for one-credit courses, which will have exams scheduled at the last regular meeting of the class. The examination periods, dates, and times are found in the Office of Records and Registration's Final Exam Schedule (<http://www.uwlax.edu/Records/Final-Exam-Schedule/>). Final exams for online courses will be administered by the published end date of the course. The nature and relative importance assigned to the final examination is determined by the instructor in charge of each course.

Any changes to the final examination policy above, including the published schedule, must be approved by the department chair and the dean of the school or college and will only be granted under extraordinary circumstances. Instructors may send requests to change an examination time via email to the chair of their department. If the department chair approves of the request, the chair will then forward the request to the dean.

No student will be required to take more than three final exams on the same day. If a night class is not involved, instructors of the fourth and subsequent exams on that day will be obliged to reschedule that student's exam if the Office of Record and Registration certifies that such an overload exists. If a night class is involved, the night class and the student's first two exams of the day will remain as scheduled and the other instructors will be obliged to reschedule their exams for that student.

Study Day: No final examination shall be given to any student on Study Day. Study Day is a day to prepare for the final examination period. No student activities of any sort with the exception of optional review sessions for final examinations shall be scheduled on Study Day. This includes make-up classes or tests, committee meetings involving students, and athletic practices or events.

University incomplete (I) grade policy

An incomplete (I) is a temporary grading symbol (not a final course grade) that may be reported for a student who carried a subject through the last date that one may withdraw from a course and then, because of illness or other unusual and substantiated cause beyond the student's control, was unable to take the final examination or complete a limited amount of remaining course work.

In no case may an incomplete be recorded by an instructor for a student who, through personal fault, has failed either to complete the requirements of the course on time or failed to report for the final examination as scheduled.

Before an incomplete is reported, there should be, in the judgment of the instructor, a reasonable probability that the student can complete the course successfully without attending class sessions again.

An incomplete (I) will be removed when the student submits all work due. An incomplete must be removed and a final grade recorded in the Office of Records and Registration no later than one calendar year (12 months) following the term in which the Incomplete was incurred, whether or not the student is enrolled. If the student has graduated, an incomplete will be changed according to this policy; however, the graduation GPA will not change.

In order to remove an incomplete, the student must make arrangements with the instructor for the satisfactory completion of the work remaining to be done in the course. This work was indicated on the "Incomplete Grade Request" that was submitted by the student and the instructor when the "I" was originally requested.

When the work has been completed, the instructor submits a final grade, which must also be approved by the department chair and the student's dean. If the deadline for completion is not met, a grade of "F" will be recorded automatically at the time stated above. If the instructor indicated a grade other than "F" on the information sheet that was filed, that grade will be used instead of "F."

Note: A student should never register again for any course to remove a previously recorded incomplete unless the "I" grade has been converted to "F." This conversion of the "I" must be done prior to re-enrollment. The grade earned in repetition will supersede the "F" recorded, according to the established policy for course repetition.

In progress (PR) grade policy

A "PR" grade (Progress) will be used for seminar papers, theses, dissertation, and terminal or culminating projects. The "PR" grade remains on the student record until replaced by another grade.

Graduate change of final grade policy

An instructor may request to change a final grade for one semester immediately following the close of the semester in which the grade is first recorded. The instructor and department chair authorize the change by signing a "Change of Grade" form and forwarding it to the appropriate dean for signature. The dean will then file it with the Records and Registration Office.

An instructor may appeal the change of grade timeline after the one semester timeline has expired. The appeal will be heard first by the Graduate Advisory Board of the Graduate Council. Their recommendation will be presented to the full Graduate Council for deliberation.

Graduate appeal of final grade policy

All departments have established policies and procedures, which enable students to appeal final grades. These policies and procedures outline the progression of a formal appeal and specify who is empowered to change a final grade. All appeals for a final grade change must be initiated in writing through the department in question during the semester immediately following the semester in which the grade was earned. A copy of each department's policies and procedures is on file in the office of the appropriate dean.

Graduate report of final grades policy

Official grades may be submitted at the end of each course and are viewable on WINGS; however, grade point averages are only updated at the end of the term. Academic action is taken at the end of each term. Grades are not mailed; they are available electronically via the WINGS Student Center.

Graduation/Commencement - Graduate

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- Applying for graduation (p. 22)
- Graduate commencement participation (p. 22)
- Graduate level honors (p. 22)
- Mailing diplomas (p. 22)

Graduate level graduation fee

Current graduation fees (<https://www.uwlax.edu/cashiers/tuition-and-billing/tuition-and-fee-information/>) for graduate students are available in the Cashier's Office on the current tuition and fee schedule. Students are billed for the graduation fee upon completion of 20 credits toward the master's degree. This is a one-time fee assessed regardless of whether or not a student chooses to attend the commencement ceremony. There is an additional charge for the keepsake cap, gown, and hood for those attending the ceremony.

Applying for graduation

All students must apply for graduation. Graduate students must apply for graduation in the term in which they will successfully complete the dissertation, thesis, comprehensive exams, terminal internship, or terminal project. Attendance at commencement ceremonies is optional. Graduate students who are currently enrolled in GRC 795, GRC 798, GRC 799, or any other course in the semester in which the degree will be awarded can electronically apply for graduation through the WINGS Student Center (<https://wings.uwlax.edu/psp/csprod/?cmd=login/>). Students who have already completed all required GRC 795, GRC 798, or GRC 799 enrollments in a prior semester must contact directly the Office of Records and Registration (117 Graff Main Hall) to apply for graduation.

Graduate commencement participation

Participation in commencement and hooding exercises signifies that course work and all other degree requirements have been satisfied. Students who have not completed all degree requirements, but have a compelling reason to participate in commencement exercises early, may request permission to do so. Permission must be obtained from their college dean's office and the Director of Graduate Studies at least a month prior to commencement. Commencement ceremonies occur each year in December and May.

Graduate level honors

Considering the high academic achievement of graduate students and the required minimum 3.00 cumulative grade point average upon graduation, commencement and graduation honors are not calculated for graduate students.

Mailing diplomas

Diplomas are mailed approximately six weeks after the ending date of the semester to the current legal (home) address on the university computer system unless the Office of Records and Registration has been notified differently in writing. All indebtedness to the university must be cleared before a diploma is released.

Registration and Schedules - Graduate

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- Registration process (p. 22)
- Schedule changes (p. 23) (drop/add/change of schedule policy)
- Class drops at an instructor's discretion policy (p. 23)
- Class drops after the change of schedule period: see the individual class withdrawal policy (p. 26) in the university's withdrawal policies.
- Graduate student credit load policy (p. 23)
- Graduate student credit load - international students (p. 23)
- Class attendance (p. 23)
- Audit policy (p. 23)
- Undergraduate enrollment in graduate courses policy (p. 24)
- Graduate research, comprehensive exams, and terminal project completion policy (p. 24)
- Graduate thesis and dissertation committee policy

Academic advising

Advising is a critical part of graduate education. It is important for each student to meet with their program director early in their studies to chart a plan of study. Program directors serve as the advisors in some programs; in other programs, advisors are assigned. Consulting with your advisor prior to each registration will reduce the possibility of enrolling in courses which do not meet your goals.

Registration process

The university has online registration via the WINGS Student Center (<https://wings.uwlax.edu/psp/csprod/?cmd=login/>). Registration for the winter and spring terms begins in November; summer registration begins a week before fall registration in early to mid-April. A student's enrollment date and time is located on his/her WINGS Student Center. The student may register at that assigned time or any time after, through the fifth day of classes (third day for a summer term) unless enrollment limits have been met. From the sixth to the tenth day of the semester, a student may register with approval from the instructor and/or department. The drop/add/change of schedule policy (<http://catalog.uwlax.edu/undergraduate/academicpolicies/registrationandscheduling/#schedule-changes>) has more details on the deadlines for schedule changes.

The online Timetable (<http://www.uwlax.edu/Records/registration/>) and WINGS Class Search have complete instructions for registration and schedule changes after registration. The registration system will not permit a student to enroll in a class for which a prerequisite has not

been completed, if there is a time conflict, if the class is closed, or if the additional credits will put the student's credit load over 18 credits for undergraduates or 15 credits for graduates. Some graduate programs require graduate students to register through their advisors instead of using the WINGS system.

Continuing students must have a zero balance on their accounts in order to register. In addition, all students are charged a **non-refundable registration fee** each term they register for one or more courses. The Cashier's Terms and Conditions Agreement (<https://www.uwlax.edu/cashiers/tuition-and-billing/terms-conditions/>) covers this fee, and the exact amount is listed in the cost to attend (<https://www.uwlax.edu/cost/>) UWL. If a student drops all classes before the term begins, the student is still responsible for this fee.

University drop/add/change of schedule policy

The period of time between a student's initial registration for any term through the first 10 days of classes during an academic semester is considered to be the "drop/add/change of schedule" period. Classes shorter than the traditional full semester length offered during a semester or during an intersession have drop/add schedules that reflect deadlines pro-rated from a full semester based on the length of the class.

Dropping a class

For schedule changes associated with dropping classes, neither the advisor's permission nor the instructor's permission is required during this period and a student may drop classes without affecting the permanent academic record. After the drop/add/change of schedule period, if a student withdraws from a course, the individual class withdrawal policy (<http://catalog.uwlax.edu/undergraduate/academicpolicies/withdrawal/#withdrawal-classes>) applies.

Adding a class

For schedule changes associated with adding courses, if the desired section is not closed, no permissions are needed during the first five days of classes for full semester courses. From the sixth day through the tenth day of classes for full semester courses, permission from the instructor is required and departmental permission may also be required. After the close of the add/drop/change of schedule period, classes cannot be added except in unusual cases and then only with the consent of the instructor, department chair, and the dean's office.

University class drops at an instructor's discretion policy

A student enrolled in any course is expected to be in attendance from the first day or to have notified the instructor or Student Life that attendance is not possible. A student registered in a section who fails to attend the first two class sessions or provide proper notification may be dropped from the course at the discretion of the instructor.

An instructor who wishes to drop a student from a course during the first five days of instruction should complete a drop/add form and submit it to the Office of Records and Registration during the "drop/add/change of schedule" period. A decision by an instructor to drop a student from a class may not be appealed to any other individual or body in the university. A student should not assume that an instructor will use the discretionary drop if the student does not attend class. It is a student's responsibility to withdraw from a class.

Graduate student credit load policy

A recommended full-time load for a graduate student is 12 credits per semester. A maximum load is 15 credits per semester and nine credits during a 12-week summer session, with no more than six credits in a four-week summer session. (This applies to any combination of courses - all graduate or graduate/undergraduate.)

Students are considered full-time if enrolled for at least nine credits each semester and five semester credits during the summer term. Credit load requirements are different for students receiving financial aid during the summer. See the Financial Aid Office (<http://www.uwlax.edu/finaid/>) for more information.

A student may earn, as a maximum, the number of credits corresponding to the number of weeks in any interim session (i.e., a student may earn a maximum of three credits during winter intersession). Any request to carry more than the maximum allowable credits for a semester, summer term, or winter intersession must be submitted in writing with documented "extenuating circumstances" and must be approved by the student's graduate program director prior to enrollment for any of the previously mentioned sessions. An "Overload Request Form" is available from the graduate program director.

Graduate student credit load - international students

International Students: Both F-1 and J-1 student visa regulations require students to enroll full-time each fall and spring semester. Unless otherwise obligated by the requirements of their program or special circumstances, full-time enrollment for an undergraduate student is a minimum of 12 credits and for a graduate student it is a minimum of nine credits. Enrollment in summer classes is not required unless the initial entry document (I-20 or DS-2019) indicates the student is to begin a program in a summer session or required due to other circumstances. (See summer enrollment requirements for capstone continuation, graduate assistantships, and program progress.) Failure to maintain full-time status can result in loss of F-1/J-1 student benefits. International Education & Engagement (IEE) must authorize any exceptions to full-time enrollment. Permission by IEE to drop below full-time enrollment does **not** exempt an international student from meeting the enrollment requirement for assistantships.

Class attendance

Students are responsible to their respective instructors for all absences. If a student is absent an extended period of time (over one week), due to illness, family emergency, etc., the student should contact Student Life, 149 Graff Main Hall. That office will inform the instructors involved of the absence. This serves as notification only, not necessarily a formal excuse. It is the student's responsibility to contact each instructor for make-up work, etc. There is no "cut" system. University regulations prohibit excusing students and the dismissal of classes immediately preceding or immediately following scheduled vacation or recess periods except in cases of commonly recognized and extreme emergencies.

University audit policy

Students may audit courses under the following arrangements:

1. Students must receive consent of the department chair and the instructor offering the course.

2. No change from audit to credit will be permitted after the first week of classes. No change from credit to audit will be permitted after the official last day to drop a class. (See the individual class withdrawal policy (<http://catalog.uwlax.edu/undergraduate/academicpolicies/withdrawal/#withdrawal-classes>) for deadline details.)
3. No credit will be granted for any course that is audited. "Audit" will appear on the student's permanent academic record. The "AS/AU" grading system is used for auditors. The grade will not affect a student's GPA.
4. An audited course may be repeated for credit in another semester or term.
5. Appropriate tuition and fees are to be paid for the course.
6. Courses being audited are not usable to establish full-time or part-time status for any type of eligibility, such as for athletic participation, student grants/loans, or loan deferment.
7. Courses being audited may not be taken in excess of student load limits for credit generating courses without special "overload" permission from the student's academic dean.
8. A course previously completed for credit may be audited in another term.

University undergraduate enrollment in graduate courses policy

Undergraduate students with senior status (at least 90 credits) who have at least a 3.00 cumulative grade point average, may enroll in a maximum of six graduate credits. These graduate level credits may not be used to satisfy requirements for a bachelor's degree. Exceptions to these requirements must be approved by the Graduate Council. Maximum student credit load for dual enrollment (graduate/undergraduate) is 15 credit hours for a semester and eight credit hours for a summer term (standard university overload approval process applies).

Students must submit written permission from the course instructor and their advisor, along with a graduate special non-degree application, to the Admissions Office prior to registering for a graduate course. Undergraduate tuition and fees are charged. Students in dual-degree programs must complete the graduate program application process and pay graduate tuition fees. Students are expected to purchase texts for graduate courses.

Graduate research, comprehensive exams, and terminal project completion policy

The Graduate Council has approved a graduate research, comprehensive exams, and terminal project completion policy for students who are still working on required research, comprehensive exams, or terminal projects. The purpose of this policy is to provide continued access to university faculty, technology, facilities, and the library.

GRC 799 Continuous Registration (0 cr.) - For students with continuous registration

Once having completed all degree requirements¹ in an approved program of study except for the thesis, seminar paper, comprehensive examination, or other culminating graduate projects, students must maintain continuous term-to-term enrollment (excluding winter intersession). Students meet this requirement by registering for GRC 799

for zero credits and paying a special course fee equal to the cost of one resident graduate credit.

1. Students who require only one term after their regular coursework to complete their thesis or culminating project need to register for only for one (1) term of GRC 799.
2. Students who need more than one (1) term after their regular coursework to complete their thesis or culminating project need to register for two and only two (2) continuous terms of GRC 799.
3. Students who need more than two (2) terms after their regular coursework to complete their thesis or culminating project and who need continued access to university faculty, technology, facilities and the library must register for GRC 795 each term, excluding winter.
4. Students must register for GRC 798 if they failed to register for GRC 799 in either of the two terms immediately following completion of their regular coursework. Instead they register for GRC 798.

Students must register for GRC 799 (Fall, Spring) immediately following completion of all coursework. Students register for GRC 799 only when they are not registered for any other credits. To maintain access to university resources (e.g. building access) during the summer, a student must be registered for GRC 799 for either that summer or the following fall. Repeatable - maximum two enrollments.

GRC 798 Interrupted Registration (0 cr.) - For students with interrupted registration

This registration is required for students who failed to meet the University's Graduate Research and Terminal Project Completion Policy (did not register for GRC 799 immediately upon completing all degree requirements in an approved program of study except for thesis, comprehensive examination, seminar paper, or other culminating project). In order to comply with the policy, students must register for GRC 798 for zero credits and pay a special course fee equal to the cost of three resident graduate credits. Prerequisite: approval by graduate program director and reentry to former academic program; approved reentry to the university.

GRC 795 Extended Continuous Registration (0 cr.) - For students who have enrolled twice in GRC 799

After completing two enrollments in GRC 799, students who are still actively engaged in research or writing and need to maintain access to university resources must continue term-to-term enrollment by registering for GRC 795 (Fall, Spring, Summer) for zero credits and paying a special course fee equal to 50% of the cost of one resident graduate credit. Enrollment in GRC 795 will provide the student with continued access to university email, library privileges, and buildings. Students register for GRC 795 only when they are not registered for any other credits. Repeatable - maximum 12 enrollments. Prerequisite: two semesters of GRC 799.

¹ Completion means that students may have pending incompletes in courses; it also means that students have pending PR grades in their thesis, seminar paper, culminating project credits, but that they no longer have any other courses yet to register for.

Graduate thesis and dissertation committee policy

Students should select at least three members to their thesis or dissertation committee, but they can select more. All of the members of the committee must hold graduate faculty status at UWL. Each student should select a faculty member from the student's department of study

to serve as the chairperson of the thesis or dissertation committee. A minimum of at least one more committee member must be from the student's department, unless the student is enrolled in the Student Affairs Administration and Leadership Ed.D (SAA Ed.D.) Graduate Program. SAA Ed.D. students may have committees with a single representative of the department (i.e., the committee chairperson). It is highly encouraged that at least one member of the committee be from outside the student's department.

Additional information regarding thesis and dissertation completion (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>) can be found on the Office of Graduate Studies website.

Transfer Credits - Graduate

The Office of Graduate Studies at UWL subscribes to the statement by the Council of Graduate Schools that describes a master's program as a coherent sequence of lectures, seminars, discussions, and independent studies or investigations designed to help the student acquire an introduction to the mastery of knowledge, creative scholarship, and research in the student's field. The college or university that offers a master's degree undertakes a responsibility in the public interest to establish and maintain high quality in the experience given to its students.

Thus, a graduate program of study is not merely a collection of courses taken in satisfaction of a set of degree requirements. A high quality graduate experience is characterized by graduate students, advised and taught by faculty scholars, participating in an intellectual and creative pursuit and interchange with other students and faculty in the discipline.

The following transfer policy has been established in keeping with a commitment to highest quality and integrity.

Graduate level transfer credit policy

In order to be considered for graduate transfer credit at UWL, these requirements must be met:

1. Transfer credits will not be accepted with grades lower than "B" (not "BC" or "B-") or equivalent nor with grades of "pass." Staff from the Admissions Office may assist in evaluation of courses from international institutions.
2. The institution offering the course must be regionally accredited at the graduate level if it is a domestic institution, or internationally recognized if it is an international institution.¹
3. The course must be acceptable for graduate credit toward a graduate degree at the offering institution and must be appropriate to a degree at UWL.
4. It must appear as a graduate course on the student's graduate transcript from the offering institution.
5. Students pursuing a master's degree may transfer no more than nine credits from a previous master's degree or other recognized post-baccalaureate degree program, regardless of whether the graduate degree was awarded by UWL or another institution. This maximum may vary in the case of special consortia or joint degree programs recognized by the Graduate Council. Students pursuing a post-master's degree (e.g. Ed.S., Ed.D., or DPT), may transfer no more than 15 credits.
6. All credits, including transfer credits, must have been earned during the seven-year period prior to the proposed date of the completion of all required graduate work, unless the student is enrolled in the Ed.D. in Student Affairs Administration and Leadership (SAA Ed.D.). For SAA Ed.D. students, all credits, including transfer credits, must have

been earned during the ten-year period prior to the proposed date of the completion of all required graduate work.

7. Students must submit a formal request for approval of transfer credits. Students currently enrolled at UWL must secure approval from their graduate program director and college dean in advance of enrollment at another institution for such course work to transfer back to UWL.
8. UWL Admissions Office requests transcripts be sent directly from the issuing institution(s). Officials will not accept transcripts that come directly from the student and/or those marked "Issued to Student" unless the transcript(s) remains sealed in an envelope stamped by the issuing institution(s).

Graduate program directors have discretion in evaluating proposed transfer credits and determining if graduate courses taken at other institutions may apply to a student's program of study at UWL. In addition to reviewing an official graduate transcript, graduate program directors may request to review a course syllabus, written assignments, and examinations in order to assist them in their evaluations. Other factors that may be considered include the method of course delivery and course format. Individual program directors may have program-specific information on credit transfer policies and procedures.

Requests for an exception to these policies should be directed to the Graduate Studies Office.

¹ UWL MS Biology: Nurse Anesthesia Concentration may transfer credits from Mayo Clinic Health System- Franciscan Healthcare School of Anesthesia which is nationally accredited.

Seven Year Completion Policy - Graduate

Students must complete all degree requirements within seven years from the time of initial enrollment in the graduate program and apply for graduation (p. 22) in order to have the degree awarded, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program and apply for graduation (p. 22) in order to have the degree awarded.

Requests for an exception to this policy should be directed to the Graduate Studies Office.

Student Conduct - Graduate

Student disciplinary procedures

In 1989, the Board of Regents adopted an administrative code Chapter UWS 14, which covers academic misconduct. Its principles state, "The Board of Regents, administrators, faculty, academic staff, and students of the University of Wisconsin System believe that academic honesty and integrity are fundamental to the mission of higher education and of the University of Wisconsin System. The university has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others' academic endeavors. Students who violate these standards must be confronted and must accept the consequences of their actions."

The Board also revised Chapter UWS 17, which covers non-academic misconduct. In it, they state, "The Board of Regents, administration,

faculty, academic staff, and students of the University of Wisconsin System believe that the teaching, learning, research, and service activities of the university can flourish only in an environment that is safe from violence and free of harassment, fraud, theft, disruption, and intimidation. The university has a responsibility to identify basic standards of non-academic conduct necessary to protect the community, and to develop procedures to deal effectively with instances of misconduct while observing the procedural and substantive rights of students. Any person who violates state or federal laws on university property may face prosecution in the appropriate courts. In addition, students, faculty, or staff who violate university standards are subject to university disciplinary action."

The procedures in both Chapters 14 and 17 describe the actions that the university may take in response to student misconduct; they define the conduct that is prohibited; and they outline the procedures that are to be used to resolve allegations of misconduct. The UWL student disciplinary procedures are identical to those in UWS 14 and UWS 17. These documents can be found in the UWL Student Handbook (<https://www.uwlax.edu/student-life/student-resources/student-handbook/>), also available in the Office of Student Life. It also includes UWS Chapter 18, "Conduct on University Lands," which describes prohibited behavior and parking regulations.

Student honor code

We, the students of UW-La Crosse, believe that academic honesty and integrity are fundamental to the mission of higher education. We, as students, are responsible for the honest completion and representation of our work and respect for others' academic endeavors. We, as students and responsible citizens of the City of La Crosse, will aim to uphold the integrity of the university throughout the La Crosse community. It is our individual responsibility as students to uphold these ethical standards and to respect the character of the individuals and the university.

Withdrawal Policies - Graduate

- Individual class withdrawal/drop policy (p. 26)
- Withdrawal from UWL policy (p. 26)
- Medical withdrawal policy (p. 26)
- Military duty withdrawal from UWL policy (p. 27)

Individual class withdrawal policy

Any student may withdraw from a class until one week beyond mid-term of a full semester class. All withdrawals from classes after the "drop/add/change of schedule" period are recorded with a "W" on the student's permanent academic record along with the official date of withdrawal. (See the university drop/add/change of schedule policy (<http://catalog.uwlax.edu/undergraduate/academicpolicies/registrationandscheduling/#schedule-changes>) for details on the add/drop/change of schedule period). Classes shorter than the full term length offered during a semester or during an intersession have withdrawal time limits established on a basis prorated to withdrawal dates for a full semester class.

The student must obtain either the advisor's or the instructor's permission during this time period. No student is permitted to withdraw from a class later than one week beyond mid-term of a semester for a full semester course. Only a grade of "F" or "I" may be recorded for any student who continues past this time period and fails to complete a class. See the withdrawal from UWL policy (<http://catalog.uwlax.edu/>

[undergraduate/academicpolicies/withdrawal/#withdrawal-university](#)) for exceptions.

Failure to follow the prescribed procedures and to observe the prescribed time limits for withdrawal from classes will result in the recording of failing grades in discontinued classes. If a student withdraws from a course taken as a "repeat," the original grade earned will remain in the overall grade point average calculation.

Withdrawal from UWL policy

Withdrawal from the university is a matter of major importance. Students considering withdrawal from school, should discuss the matter with an academic advisor, program director, and/or dean prior to initiating action. The official date of withdrawal from all classes will be recorded on the permanent academic record if the student withdraws after classes begin.

Forms for withdrawing from the university may be obtained from Student Life, 149 Graff Main Hall. The forms provide a checklist which withdrawing students are expected to follow carefully. Withdrawal procedures must be fully completed before a withdrawal becomes official.

An official withdrawal entitles a student to a refund of fees when the withdrawal date falls within a refund period. The official date of withdrawal is the date the withdrawal form is received in the Records and Registration Office. A "W" (Withdrawal) will appear on the student's academic transcript if the withdrawal date is prior to one week after mid-term of a given semester. A grade of "WP" or "WF" will appear if the withdrawal falls after the mid-term point. A grade of "WF" will be averaged into the GPA. Withdrawal from the university is not allowed after the three-quarter point of the term. Students who withdraw after classes have begun will be charged a withdrawal fee (<https://www.uwlax.edu/cashiers/withdrawing-from-uwl/>).

An unofficial withdrawal will result in recording failing grades in discontinued courses and in encumbering of student records if the following obligations to the university have not been met: release from graduate assistantship obligations, if appropriate; returning books to textbook service and Murphy Library; returning other university supplies and/or equipment issued during preceding periods of regular enrollment; clearing a record through an exit interview in the Financial Aid Office, if applicable; and securing a final clearance in the Cashier's Office with respect to any refund(s) which may be due or obligations unfulfilled regarding university fees, housing or food service arrangements, or accounts, and relinquishing the student identification card.

In some cases, students may request an emergency medical withdrawal (p. 26) from the university.

Note: Pursuant to the regulations of Title IV of the Federal Higher Education Act of 1965, as amended, students who receive student financial aid and receive all F1-F14 grades (recorded as F's) will be subject to the federal Title IV Return of Funds Policy. These students may be required to return funds to the student financial programs and may also be liable for repayments directly to UW-La Crosse.

Medical withdrawal policy

Medical withdrawal must be initiated by a student or authorized agent on or before the last day of classes of the semester for which the withdrawal is being requested. The withdrawal request must be supported by a letter from a health care provider which describes the limitations on the student's continued participation in courses. The Student Health Center will verify the authenticity of the support letter and will notify Student Life. Student Life will consult the appropriate

academic dean, the Director of Graduate Studies, the appropriate graduate program director, and all of the student's instructors. When the withdrawal is completed, the Records and Registration Office will notify instructors if a grade is required.

For courses in which the student has withdrawn, the permanent academic record will show no credits were earned. However, the status of the student's grades at the time of the withdrawal will be posted. The record will show one of the following grades submitted by the instructor: "EP" (emergency withdrawal passing) or "EF" (emergency withdrawal failing). Such grades will not be included in the computation of the term or cumulative grade point average.

Any exception to the policies of the medical withdrawal must be appealed through the Student Life Office to the University's Committee on Academic Policies and Standards (<http://catalog.uwlax.edu/undergraduate/academicpolicies/academiceligibility/#committee-academic-policies-standards>) (CAPS). A decision by CAPS is final.

Military duty withdrawal from the university

Military duty withdrawal applies to those students who are ordered to active duty (i.e., active duty Reserve, National Guard), not to individuals who voluntarily enlist. A copy of the orders/activation papers must be submitted to Student Life, 149 Graff Main Hall. The staff in that office will provide assistance and guidance with the withdrawal process, which may occur at any time. Depending on when the withdrawal is effective, options are available for complete or partial withdrawal with grades of "EP" and "EF," for accepting normal letter grades, or for "Incomplete" grades.

Refunds will be calculated based on dates and options selected. More information can be found in the university's full Military Duty Withdrawal Policy (<https://www.uwlax.edu/records/student-resources/veteran-students/#tm-military-duty-withdrawal-policy>).

Murphy Library

Murphy Library Director: John Jax
106 Murphy Library; 608.785.8567
Email: jjax@uwlax.edu

University Business Specialist Supervisor: Ingrid Iverson
111 Murphy Library, 608.785.8520
Email: iiiverson@uwlax.edu

1631 Pine St, La Crosse, WI 54601
608.785.8505 (general number)
608.785.8639 (fax)
Email: libraryoffice@uwlax.edu

www.uwlax.edu/murphylibrary (<http://www.uwlax.edu/murphylibrary/>)

Mission & values (p. 28) Spaces (p. 28) Services to graduate students (<http://catalog.uwlax.edu/graduate/murphylibrary/#graduatestudentservicestext>)

Murphy Library is the campus center for academic inquiry. The library provides access to a vast and diverse collection of electronic and print resources; facilities designed to accommodate in a flexible manner a variety of learning needs; technologies that complement and enhance the acquisition, synthesis and use of information; and staff to help students find and use the quality information they need.

Mission & values

Mission statement

Murphy Library is integral to student success at the University of Wisconsin-La Crosse. The library provides a dynamic and diverse learning environment centered on the core principles of service, stewardship, information literacy and equity of access. Exemplifying these principles, this teaching library carefully manages information resources that support and promote excellence in academic study and research, success in teaching and learning, and intellectual and cultural exploration. Murphy Library additionally serves the greater community as a regional information center.

Values statement

To fulfill the Library's mission, the Library Director, Library Department and staff uphold the following values:

People

We value library users and are committed to providing a consistently high level of services to all: students, faculty, staff, and community members. We believe in open communication and treating users and library colleagues with courtesy and respect. We respect the confidentiality of users' information requests and library records.

Access

We provide the greatest access possible to information in various formats, in collaboration with faculty, to support the instructional and research-related fields of the university curriculum. We share library resources through interlibrary loan and cooperative ventures with other libraries. We organize collections and manage digital and physical access for ease of retrieval by a diverse group of on- and off-campus users.

Inquiry

As a teaching library, we promote critical thinking and exploration by teaching students and other users information literacy skills for university work and lifelong learning. We treasure the ideals of free speech and unfettered inquiry.

Diversity

We support an understanding and appreciation of diversity through collections and information access, services, the instruction program and staff. Read our full diversity statement (<https://www.uwlax.edu/murphylibrary/diversity/>).

Innovation

We embrace an environment of continuous change leading to new and improved library technologies, products and services.

Stewardship

We utilize funding responsibly and seek cooperative arrangements with other libraries to maximize the benefits for library users. We maintain our collections, a secure facility, and a healthful environment for current and future users. We preserve the local cultural heritage by collecting regional materials.

Spaces

- Collaborative Learning Commons on the ground floor
- Quiet second floor and basement
- Alice Hagar Curriculum Center
- Group study rooms
- Study carrels
- Silent study room
- Murphy's Mug café

Graduate student services

• Resources

- Databases and journals
- Books and multimedia
- Rare books
- University archives
- La Crosse history
- Digital collections
- Alice Hagar Curriculum Center
- Government collections and depository
- Guides and reference materials

• Services

- Interlibrary loan
- UW System resource sharing
- Reserving materials
- Consulting a librarian (by appointment, walk-up, phone, email, chat, text)

- Research help/guidance
- Use of technology
- Borrowing materials
- Reserving materials or room
- Tutorials and videos on using the library and searching
- Tours
- Purchase recommendations
- Graduate study carrels
- Group study rooms
- Technology
 - PC and Mac computers
 - B/W and color printing
 - Scanner
 - Laptops and iPads for check-out
 - Roll-over monitors
 - Smart board
 - Scientific calculators
 - Adaptive technology like keyboard and mouse
- Fax
- Notary Public

Student Resources

A wide variety of graduate student resources (<http://www.uwlax.edu/Graduate-studies/>) can be found with the Office of Graduate Studies (gradstudies@uwlax.edu), 223 Graff Main Hall, 608.785.8124.

Graduate Degree Policies

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

3. Complete program requirements. A maximum of nine semester credits of course requirements of the second UWL master's degree may be fulfilled by course work completed for a previous UWL master's degree. Individual programs may have a more restrictive policy on transferring credits from a previously earned master's degree. Program directors and deans approve credits that apply from program to program.
4. All general requirements for the master's degree apply to the second master's degree. Students must complete the terminal project for the second master's degree required by the program. All requirements must be completed within seven years, including credits accepted from a previous master's degree.

Students who received a master's degree from another institution must also meet the above requirements. The graduate transfer policy (p. 25) will be used to determine credit to be awarded for previous course work from another institution.

Second master's degree policy

A graduate of a UWL master's degree program may earn a second UWL master's degree by meeting the following conditions:

1. Submit a new application for admission with the application fee.
2. Become accepted into the degree program by the appropriate college and program.

Graduate Degrees and Program Requirements

Links below go directly to the program's page within the catalog.

Biology (BIO)

- Biology Graduate Program (p. 32)
 - Biology - MS (p. 33)
 - Biology - MS: Aquatic Science Concentration (p. 34)
 - Biology - MS: Cellular and Molecular Biology Concentration (p. 35)
 - Biology - MS: Environmental Science Concentration (p. 36)
 - Biology - MS: Nurse Anesthesia Concentration (p. 38)
 - Biology - MS: Physiology Concentration (p. 39)

Computer Science (CS)

- Software Engineering Graduate Program - MSE (p. 40)

Communication Studies (CST)

- Cybersecurity Graduate Program - MS (p. 42)

Exercise and Sport Science (ESS)

- Athletic Training Graduate Program - MS (p. 43)
- Clinical Exercise Physiology Graduate Program - MS (p. 45)
- Physical Education Teaching Graduate Program (p. 46)
 - Physical Education Teaching - MS (p. 47)
 - Physical Education Teaching - MS: Adapted Physical Education Emphasis
 - Physical Education Teaching - MS: Adventure/Outdoor Pursuits Emphasis (p. 49)

Health Education and Health Promotion (HED)

- Healthcare Administration Graduate Program - MS (p. 50)

Health Professions (HP)

- Medical Dosimetry Graduate Program (p. 51)
 - Track A: Dosimetry for Radiation Therapist - MS (p. 52)
 - Track B: Dosimetry for Non-Radiation Therapist - MS (p. 53)
 - Track C: Dosimetry for Certified Medical Dosimetrists - MS (p. 55)
- Occupational Therapy Graduate Program - MS (p. 56)
- Physical Therapy Program - DPT (p. 59)
- Physician Assistant Studies Graduate Program - MS (p. 62)

Library (LIB)

- Information Technology Management Graduate Program - MS (p. 66)

Mathematics and Statistics (MTH/STAT)

- Applied Statistics Graduate Program - MS (p. 71)
- Data Science Graduate Program - MS (p. 72)

Microbiology (MIC)

- Microbiology Graduate Program (p. 67)
 - Microbiology - MS (p. 67)
 - Microbiology - MS: Clinical Microbiology Emphasis (p. 69)

Psychology (PSY)

- School Psychology Graduate Program (p. 74) (year 1)
 - Master of Science in Education - MSED (p. 75)
- School Psychology Graduate Program (p. 76) (year 2 & 3)
 - Educational Specialist - Ed.S. (p. 77)

Recreation Management (REC)

- Recreation Management Graduate Program - MS (p. 78)
- Recreation Management: Professional Development Graduate Program - MS (p. 81)
- Therapeutic Recreation Graduate Program - MS (p. 82)

School of Education, Professional and Continuing Education (SOE)

Institute for Professional Studies in Education

- Professional Studies in Education Graduate Programs (p. 85) - MSED programs
 - Professional Development: Learning Community Emphasis - MSED (p. 90)
 - Professional Development: Educational Leadership Emphasis - MSED (p. 87)
 - Professional Development: Educational Leadership and Director of Instruction Emphasis - MSED (p. 88)
 - Reading - MSED (non certification) (p. 91)
 - Reading: Reading Teacher (1316) Emphasis - MSED (p. 92)
 - Reading: Reading Specialist (5017) Emphasis - MSED (p. 94)
 - Reading: Reading Teacher (1316) and Reading Specialist (5017) Emphasis - MSED (p. 95)
- Professional Studies in Education Graduate Programs (p. 85) - other
 - Educational Leadership Certificate (p. 96)
 - English Language Arts Elementary Certificate (p. 97)
 - Professional Learning Community Certificate (p. 97)
 - Reading Teacher (1316) Certificate (p. 98)
 - Director of Instruction (10) Add-on Certification (p. 98)
 - Reading Specialist (5017) Add-on Certification (p. 99)

Student Affairs Administration (SAA)

- Student Affairs Administration Graduate Program - MSED (p. 99)
 - On-Campus (p. 100)
 - Online (p. 101)
 - UWRF Partner (p. 102)
- Student Affairs Administration and Leadership Graduate Program - Ed.D. (p. 104)

BIO - Biology Graduate Program

Biology Program

Biology: Aquatic Science Concentration

Biology: Cellular & Molecular Concentration

Biology: Environmental Science Concentration

Biology: Physiology Concentration

Director: Anita Davelos

4032 Cowley Hall; 608.785.8239

Email: adavelos@uwrlax.edu

Biology: Nurse Anesthesia Concentration

School of Anesthesia Program Director: Jessica Peterson

Mayo Clinic Health System Franciscan Healthcare

608.785.0940 ext. 2-2428
Email: peterson.jessica7@mayo.edu

www.uwlax.edu/grad/biology/ (<https://www.uwlax.edu/grad/biology/>)

The Master of Science in Biology Program is a multi-disciplinary program that allows students advanced study in several traditional and non-traditional areas of biology. Students have the option of a general M.S. degree in biology (Build your own degree!) or may obtain an M.S. degree in biology with a formal concentration in aquatic science, cellular and molecular biology, nurse anesthesia, environmental science, or physiology.

Admission to the program is based, in part, on undergraduate grade point average (GPA), letters of recommendation, and on individually prescribed undergraduate course work to meet prerequisite requirements for each concentration. Each student will choose a major advisor and an advisory committee during the first semester of residence. This committee will assist the student in drafting the student's plan of study, which will dictate the student's curriculum for the ensuing semesters.

All students complete a capstone experience. Students in the general M.S. option and in all but one of the concentrations complete a thesis or seminar paper. Students obtaining the M.S. in biology with a nurse anesthesia concentration instead complete extensive clinical training in affiliation with Mayo Clinic Health System - Franciscan Healthcare, and most will go on to complete additional advanced degree coursework with Viterbo University.

2020-21 Faculty/Staff

The following is the graduate faculty as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Professor

Scott Cooper
Daniel (Tim) Gerber
Rick Gillis
Roger Haro
Tisha King-Heiden
Sumei Liu
Margaret (Peg) Maher
Jennifer Miskowski
Gregory Sandland
Eric Strauss
Meredith Thomsen
Thomas Volk

Associate Professor

Michael Abler
Anita Davelos
Sierra Colavito

Anne Galbraith
Barrett Klein
Jennifer Klein
Megan Litster
Todd Osmundson
Anton Sanderfoot
Bradley Seebach

Assistant Professor

David Schumann
Christine Schwartz
Ross Vander Vorste
Jaclyn Wisinski
Alder Yu

Graduate degrees

- Biology - MS (p. 33)
- Biology - MS: Aquatic science concentration (p. 34)
- Biology - MS: Cellular and molecular biology concentration (p. 35)
- Biology - MS: Environmental science concentration (p. 36)
- Biology - MS: Nurse anesthesia concentration (p. 38)
- Biology - MS: Physiology concentration (p. 39)

Biology - Master of Science

This traditional master's degree program is designed to provide the most beneficial learning opportunities based on career goals and the student's area of focus. It is intended for students who do not plan to obtain one of the formal concentrations within the M.S. Biology Program.

Program requirements

Biology graduate student requirements

All graduate students in biology must meet the following requirements:

1. Complete at least 30 credits of graduate level course work (500-level and above) of which at least 15 credits must be at the 700-level.
2. Prior to registration each semester, the student must consult with the major advisor.
3. Enroll in BIO 700 Biology Graduate Program Orientation during the first fall semester of residence. Enroll in BIO 701 Communication in the Biological Sciences and two semesters of BIO 751 Graduate Seminar during the first four semesters of residence. Nurse anesthesia students are exempt from the BIO 700 and BIO 751 requirement but are required to complete BIO 701.
4. Students may complete an appropriate graduate course (numbers 500 and above) from outside the department of biology upon approval of a student's advisory committee.
5. Submit a written thesis or seminar paper proposal to the advisory committee (ideally prior to the beginning of the second year of residence). Nurse anesthesia students are exempt from this

requirement and are not required to complete a thesis or seminar paper as part of the degree program.

6. Pass a thesis proposal defense and/or an oral examination covering material determined by the advisory committee, such as the student's research area and advanced course work.
7. Not less than one semester after completion of the thesis proposal/oral examination, present an oral defense of the thesis or seminar paper. Nurse anesthesia students are exempt from this requirement.
8. Students must maintain continuous term-to-term enrollment per the university's Graduate Research, Comprehensive Exams, and Terminal Project Completion Policy (<http://catalog.uwlax.edu/graduate/academicpolicies/registrationschedules/#continuous-registration>).
9. Consult this catalog and the department's graduate student guidelines for additional policies pertaining to graduate students in a biology program.

Master of Science in biology requirements

Students intending to complete a Master of Science in biology are required to satisfy both the program requirements above and the university's degree requirements for graduate students.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines ([https://www.uwlax.edu/graduate-studies/current-](https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/)

[graduate-students/thesis-and-dissertation/](https://www.uwlax.edu/graduate-students/thesis-and-dissertation/)), see the Office of Graduate Studies.

6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Biology: Aquatic Science Concentration - Master of Science

Program requirements

Biology graduate student requirements

All graduate students in biology must meet the following requirements:

1. Complete at least 30 credits of graduate level course work (500-level and above) of which at least 15 credits must be at the 700-level.
2. Prior to registration each semester, the student must consult with the major advisor.
3. Enroll in BIO 700 Biology Graduate Program Orientation during the first fall semester of residence. Enroll in BIO 701 Communication in the Biological Sciences and two semesters of BIO 751 Graduate Seminar during the first four semesters of residence. Nurse anesthesia students are exempt from the BIO 700 and BIO 751 requirement but are required to complete BIO 701.
4. Students may complete an appropriate graduate course (numbers 500 and above) from outside the department of biology upon approval of a student's advisory committee.
5. Submit a written thesis or seminar paper proposal to the advisory committee (ideally prior to the beginning of the second year of residence). Nurse anesthesia students are exempt from this requirement and are not required to complete a thesis or seminar paper as part of the degree program.
6. Pass a thesis proposal defense and/or an oral examination covering material determined by the advisory committee, such as the student's research area and advanced course work.
7. Not less than one semester after completion of the thesis proposal/oral examination, present an oral defense of the thesis or seminar paper. Nurse anesthesia students are exempt from this requirement.
8. Students must maintain continuous term-to-term enrollment per the university's Graduate Research, Comprehensive Exams, and Terminal Project Completion Policy (<http://catalog.uwlax.edu/graduate/academicpolicies/registrationschedules/#continuous-registration>).
9. Consult this catalog and the department's graduate student guidelines for additional policies pertaining to graduate students in a biology program.

Master of Science in biology: aquatic science concentration requirements:

Students in this concentration must satisfy both the program requirements above and the university's degree requirements for

graduate students. In addition, when completing the program requirements above,

1. The research thesis must be in an area of aquatic science, and
2. At least 15 of the 30 credits must be from the following list; remaining credits are to be selected by the student and the advisory committee.

Code	Title	Credits
BIO 501	Comparative Vertebrate Anatomy	4
BIO 504	Plant Taxonomy	3
BIO 505	Aquatic and Wetland Vascular Plants	2
BIO 506	Parasitology	4
BIO 512	Mycology	4
BIO 514	Freshwater Invertebrate Zoology	3
BIO 519	Quantitative Methods in Ecology	3
BIO 522	Ichthyology	3
BIO 529	Evolution	3
BIO 541	Environmental Toxicology	3
BIO 544	Entomology	4
BIO 546	Animal Behavior	3
BIO 547	Standard Methods/Quality Assurance Water Analyses	3
BIO 558	Comparative Animal Physiology	4
BIO 564	Stream and Watershed Ecology	3
BIO 573	Marine Biology	3
BIO 576	Ecosystem Ecology	3
BIO 799	Research: Master's Thesis	1-6
ESC/GEO 526	Soil Systems	4
ESC/GEO 527	Water Resources	3
ESC/GEO 528	Past Environmental Change	3
ESC/GEO 530	River Systems	3
ESC/GEO 540	Geographic Interpretation of Aerial Photographs	3
ESC/GEO 545	Remote Sensing of the Environment II	3
MIC 534	Aquatic Microbial Ecology	3
MIC 730	Biodegradation and Bioremediation of Environmental Contaminants	2
STAT 505	Statistical Methods	3
STAT 545	Correlation and Regression Analysis	3
STAT 546	Analysis of Variance and Design of Experiments	3
STAT 547	Nonparametric Statistics	3
STAT 549	Applied Multivariate Statistics	3

Total credits: 30

With the approval of the student's advisory committee, other courses may be substituted for those listed.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the

Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.

3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Biology: Cellular and Molecular Biology Concentration - Master of Science

Program requirements

Biology graduate student requirements

All graduate students in biology must meet the following requirements:

1. Complete at least 30 credits of graduate level course work (500-level and above) of which at least 15 credits must be at the 700-level.
2. Prior to registration each semester, the student must consult with the major advisor.
3. Enroll in BIO 700 Biology Graduate Program Orientation during the first fall semester of residence. Enroll in BIO 701 Communication in the Biological Sciences and two semesters of BIO 751 Graduate Seminar during the first four semesters of residence. Nurse anesthesia students are exempt from the BIO 700 and BIO 751 requirement but are required to complete BIO 701.

- Students may complete an appropriate graduate course (numbers 500 and above) from outside the department of biology upon approval of a student's advisory committee.
- Submit a written thesis or seminar paper proposal to the advisory committee (ideally prior to the beginning of the second year of residence). Nurse anesthesia students are exempt from this requirement and are not required to complete a thesis or seminar paper as part of the degree program.
- Pass a thesis proposal defense and/or an oral examination covering material determined by the advisory committee, such as the student's research area and advanced course work.
- Not less than one semester after completion of the thesis proposal/oral examination, present an oral defense of the thesis or seminar paper. Nurse anesthesia students are exempt from this requirement.
- Students must maintain continuous term-to-term enrollment per the university's Graduate Research, Comprehensive Exams, and Terminal Project Completion Policy (<http://catalog.uwlax.edu/graduate/academicpolicies/registrationschedules/#continuous-registration>).
- Consult this catalog and the department's graduate student guidelines for additional policies pertaining to graduate students in a biology program.

Master of Science in biology: cellular and molecular biology concentration requirements:

Students in this concentration must satisfy both the program requirements above and the university's degree requirements for graduate students. In addition, when completing the program requirements above,

- The research thesis must be in an area of cellular or molecular biology, and
- At least 15 of the 30 credits must be from the following list; remaining credits are to be selected by the student and the advisory committee.

Code	Title	Credits
MIC 516	Prokaryotic Molecular Genetics	4
BIO 532	Biology of Cancer	2
BIO 535	Molecular Biology	3
BIO 536	Molecular Biology Laboratory	1
BIO 537	Plant Growth and Development	3
BIO 543	Molecular Mechanism of Disease and Drug Action	3
BIO 558	Comparative Animal Physiology	4
BIO 714	Advanced Genetics	3
BIO 799	Research: Master's Thesis	1-6

Total credits: 30

With the approval of the student's advisory committee, other courses may be substituted for those listed.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

- Complete any preliminary course work and deficiencies.
- Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
- Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
- Earn a cumulative grade point average of at least 3.00.
- Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
- File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
- Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
- Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Biology: Environmental Science Concentration - Master of Science

Program requirements

Biology graduate student requirements

All graduate students in biology must meet the following requirements:

- Complete at least 30 credits of graduate level course work (500-level and above) of which at least 15 credits must be at the 700-level.
- Prior to registration each semester, the student must consult with the major advisor.
- Enroll in BIO 700 Biology Graduate Program Orientation during the first fall semester of residence. Enroll in BIO 701 Communication in the Biological Sciences and two semesters of BIO 751 Graduate Seminar during the first four semesters of residence. Nurse

anesthesia students are exempt from the BIO 700 and BIO 751 requirement but are required to complete BIO 701.

- Students may complete an appropriate graduate course (numbers 500 and above) from outside the department of biology upon approval of a student's advisory committee.
- Submit a written thesis or seminar paper proposal to the advisory committee (ideally prior to the beginning of the second year of residence). Nurse anesthesia students are exempt from this requirement and are not required to complete a thesis or seminar paper as part of the degree program.
- Pass a thesis proposal defense and/or an oral examination covering material determined by the advisory committee, such as the student's research area and advanced course work.
- Not less than one semester after completion of the thesis proposal/oral examination, present an oral defense of the thesis or seminar paper. Nurse anesthesia students are exempt from this requirement.
- Students must maintain continuous term-to-term enrollment per the university's Graduate Research, Comprehensive Exams, and Terminal Project Completion Policy (<http://catalog.uwlax.edu/graduate/academicpolicies/registrationschedules/#continuous-registration>).
- Consult this catalog and the department's graduate student guidelines for additional policies pertaining to graduate students in a biology program.

Master of Science in biology: environmental science concentration requirements:

Students in this concentration must satisfy both the program requirements above and the university's degree requirements for graduate students. In addition, when completing the program requirements above,

- The research thesis must be in an area of environmental science, and
- At least 15 of the 30 credits must be from the following list and approved by the advisory committee; remaining credits are to be selected by the student and the advisory committee.

Code	Title	Credits
BIO 501	Comparative Vertebrate Anatomy	4
BIO 504	Plant Taxonomy	3
BIO 505	Aquatic and Wetland Vascular Plants	2
BIO 506	Parasitology	4
BIO 512	Mycology	4
BIO 514	Freshwater Invertebrate Zoology	3
BIO 519	Quantitative Methods in Ecology	3
BIO 522	Ichthyology	3
BIO 529	Evolution	3
BIO 541	Environmental Toxicology	3
BIO 542	Plant Microbe Interactions	3
BIO 544	Entomology	4
BIO 546	Animal Behavior	3
BIO 547	Standard Methods/Quality Assurance Water Analyses	3
BIO 556	Plant Ecology	4
BIO 558	Comparative Animal Physiology	4
BIO 564	Stream and Watershed Ecology	3
BIO 573	Marine Biology	3

BIO 576	Ecosystem Ecology	3
BIO 588	Mammalogy	3
BIO 723	21st Century Mycology	3
BIO 799	Research: Master's Thesis	1-6
ESC 525	Biogeography	3
ESC 526	Soil Systems	4
ESC 527	Water Resources	3
ESC 528	Past Environmental Change	3
ESC 530	River Systems	3
ESC 540	Geographic Interpretation of Aerial Photographs	3
ESC 545	Remote Sensing of the Environment II	3
GEO 588	Spatial Data Analysis	3
MIC 534	Aquatic Microbial Ecology	3
MIC 730	Biodegradation and Bioremediation of Environmental Contaminants	2
PH 707	Environmental Health	3
REC 711	Management of Leisure Services Organizations	3
REC 740	Outdoor Education	1-3
STAT 505	Statistical Methods	3
STAT 545	Correlation and Regression Analysis	3
STAT 546	Analysis of Variance and Design of Experiments	3
STAT 549	Applied Multivariate Statistics	3

Total credits: 30

With the approval of the student's advisory committee, other courses may be substituted for those listed.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

- Complete any preliminary course work and deficiencies.
- Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
- Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
- Earn a cumulative grade point average of at least 3.00.
- Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate

Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.

6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Biology: Nurse Anesthesia Concentration - Master of Science

This concentration is jointly offered by the Department of Biology and Mayo Clinic Health System – Franciscan Healthcare School of Anesthesia, La Crosse, Wisconsin. Students simultaneously complete requirements for the Master of Science degree in biology and educational requirements of a Certified Registered Nurse Anesthetist (CRNA).

Program requirements

Biology graduate student requirements

All graduate students in biology must meet the following requirements:

1. Complete at least 30 credits of graduate level course work (500-level and above) of which at least 15 credits must be at the 700-level.
2. Prior to registration each semester, the student must consult with the major advisor.
3. Enroll in BIO 700 Biology Graduate Program Orientation during the first fall semester of residence. Enroll in BIO 701 Communication in the Biological Sciences and two semesters of BIO 751 Graduate Seminar during the first four semesters of residence. Nurse anesthesia students are exempt from the BIO 700 and BIO 751 requirement but are required to complete BIO 701.
4. Students may complete an appropriate graduate course (numbers 500 and above) from outside the department of biology upon approval of a student's advisory committee.
5. Submit a written thesis or seminar paper proposal to the advisory committee (ideally prior to the beginning of the second year of residence). Nurse anesthesia students are exempt from this requirement and are not required to complete a thesis or seminar paper as part of the degree program.
6. Pass a thesis proposal defense and/or an oral examination covering material determined by the advisory committee, such as the student's research area and advanced course work.
7. Not less than one semester after completion of the thesis proposal/oral examination, present an oral defense of the thesis or seminar paper. Nurse anesthesia students are exempt from this requirement.
8. Students must maintain continuous term-to-term enrollment per the university's Graduate Research, Comprehensive Exams, and Terminal Project Completion Policy (<http://catalog.uwlax.edu/>

[graduate/academicpolicies/registrationschedules/#continuous-registration](#)).

9. Consult this catalog and the department's graduate student guidelines for additional policies pertaining to graduate students in a biology program.

Admission

Candidates for this concentration must apply separately to, and be accepted by, the Mayo Clinic Health System - Franciscan Healthcare School of Anesthesia. For additional information and an application, please visit their School of Anesthesia website. (<https://mayoclinichealthsystem.org/locations/la-crosse/education/school-of-anesthesia/>)

Master of Science in biology: nurse anesthesia concentration requirements:

Students in this concentration must satisfy both the program requirements above and the university's degree requirements for graduate students. In addition, students must complete

1. The CRNA core curriculum of 30 credits
2. The Mayo Clinic Health System - Franciscan Healthcare School of Anesthesia's curriculum of 23 credits
3. A research project

CRNA core curriculum

Code	Title	Credits
BIO 509	Human Gross Anatomy	3
BIO 510	Applied Human Gross Anatomy	3
BIO 524	Human Endocrinology	3
BIO 701	Communication in the Biological Sciences	4
BIO 715	Pathophysiology I ¹	2
BIO 717	Pathophysiology II ¹	1
BIO 718	Advanced Human Physiology I	4
BIO 719	Advanced Human Physiology II	4
CHM 530	Chemistry for Nurse Anesthesia	3
ESS 782	Electrocardiography	3
Total Credits		30

¹ Course taught at the School of Anesthesia and transferred to UWL.

School of Anesthesia curriculum

Students in this concentration must complete the following courses offered through the Mayo Clinic Health System - Franciscan Healthcare School of Anesthesia:

- SOA 740 Physical Assessment for Anesthetists, 3 credits
- SOA 741 Professional Aspects I, 1 credit
- SOA 742 Professional Aspects II, 1 credit
- SOA 743 Professional Aspects III, 1 credit
- SOA 744 Anesthesia Basic Concepts, 4 credits
- SOA 745 Anesthesia Advanced Concepts, 4 credits
- SOA 746 Pharmacology I, 3 credits
- SOA 747 Pharmacology, 3 credits
- SOA 800 Clinical Practicum I, 1 credit

- SOA 809 Clinical Practicum II, 1 credit
- SOA 810 Clinical Practicum III, 1 credit

Total credits from the School of Anesthesia: 23

Department & university requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Biology: Physiology Concentration - Master of Science

Program requirements

Biology graduate student requirements

All graduate students in biology must meet the following requirements:

1. Complete at least 30 credits of graduate level course work (500-level and above) of which at least 15 credits must be at the 700-level.
2. Prior to registration each semester, the student must consult with the major advisor.
3. Enroll in BIO 700 Biology Graduate Program Orientation during the first fall semester of residence. Enroll in BIO 701 Communication in the Biological Sciences and two semesters of BIO 751 Graduate Seminar during the first four semesters of residence. Nurse anesthesia students are exempt from the BIO 700 and BIO 751 requirement but are required to complete BIO 701.
4. Students may complete an appropriate graduate course (numbers 500 and above) from outside the department of biology upon approval of a student's advisory committee.
5. Submit a written thesis or seminar paper proposal to the advisory committee (ideally prior to the beginning of the second year of residence). Nurse anesthesia students are exempt from this requirement and are not required to complete a thesis or seminar paper as part of the degree program.
6. Pass a thesis proposal defense and/or an oral examination covering material determined by the advisory committee, such as the student's research area and advanced course work.
7. Not less than one semester after completion of the thesis proposal/oral examination, present an oral defense of the thesis or seminar paper. Nurse anesthesia students are exempt from this requirement.
8. Students must maintain continuous term-to-term enrollment per the university's Graduate Research, Comprehensive Exams, and Terminal Project Completion Policy (<http://catalog.uwlax.edu/graduate/academicpolicies/registrationschedules/#continuous-registration>).
9. Consult this catalog and the department's graduate student guidelines for additional policies pertaining to graduate students in a biology program.

Master of Science in biology: physiology concentration requirements:

Students in this concentration must satisfy both the program requirements above and the university's degree requirements for graduate students. In addition, when completing the program requirements above,

1. The research thesis must be in an area of animal physiology, and
2. At least 15 of the 30 credits must be from the following list; remaining credits are to be selected by the student and the advisory committee.

Code	Title	Credits
BIO 524	Human Endocrinology	3
BIO 528	Advanced Nutrition for the Health Professions	3
BIO 532	Biology of Cancer	2
BIO 535	Molecular Biology	3
BIO 536	Molecular Biology Laboratory	1

BIO 558	Comparative Animal Physiology	4
BIO 565	Neurophysiology	3
BIO 567	Neurobiology Laboratory Techniques	2
BIO 718	Advanced Human Physiology I	4
BIO 719	Advanced Human Physiology II	4
BIO 799	Research: Master's Thesis	1-6

Total credits: 30

With the approval of the student's advisory committee, other courses may be substituted for those listed.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intercession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

CS - Software Engineering Graduate Program

Master of Software Engineering (MSE) Program

Director: Kasilingam Periyasamy

222 Wing Technology Center; 608.785.6823

Email: kperiyasamy@uwlax.edu

Dept email: compsci@uwlax.edu

www.cs.uwlax.edu/index.php/graduate-program (<http://cs.uwlax.edu/programs/graduate-mse/>)

The focus of the Master of Software Engineering (MSE) Program is to teach the advanced state-of-the-art technologies in software development with hands-on experience, and to apply the knowledge to some challenging real-world problems. The program will guide the students to acquire both technical skills and software project management skills that are required to lead and to carry out software development projects.

2020-21 Faculty/Staff

The following is the graduate faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Professor

Kenny Hunt

Kasilingam Periyasamy

Mao Zheng

Associate Professor

Samantha Foley

Thomas Gendreau

Assistant Professor

Elliott Forbes

John Maraist

David Mathias

W. Michael Petullo

Allison Sauppe

Jason Sauppe

Lei Wang

Administrative Support

Becky Yoshizumi

Graduate degree

- Master of Software Engineering - MSE (p. 41)

Master of Software Engineering

Program requirements

Admission

Prerequisite requirements

The students who wish to gain admission into the MSE Program should have taken courses on the following topics or should have knowledge in these areas (evidence or supporting materials required):

1. A modern programming language (UWL equivalents: CS 120, CS 220, and CS 224)
2. Data structures and algorithms that include abstract data types such as List, Stack, Queue, Tree, and Graph (UWL equivalent: CS 340)
3. Discrete mathematics that includes topics on set theory, predicate logic, functions, and relations (UWL equivalent: MTH 225)
4. Introduction to databases (UWL equivalent: CS 364)
5. Introduction to Computer Organization (UWL equivalent: CS 270)

Students who lack any of these prerequisites must take additional courses (not counted for credit toward the MSE Program) to meet the prerequisites requirement. A cumulative grade point average (GPA) of 2.85/4.0 is required in these courses. This restriction on GPA for the prerequisite courses has been imposed to ensure that the students have adequate background in software development. In particular, non-computer science students may also be admitted into the MSE Program (see the admission requirements below) and hence a thorough knowledge of the topics covered in the prerequisite courses is necessary.

Other requirements for admission

In addition to the prerequisites identified above, each student also must satisfy one of the following requirements:

1. The student must have a bachelor's degree in software engineering, computer science, computer engineering or an equivalent major, with an overall undergraduate grade point average (GPA) of at least 2.85/4.0 or a GPA of at least 3.0/4.0 in the last half of all undergraduate work or a GPA of at least 3.0/4.0 for no fewer than 12 semester credits of graduate study at another accredited graduate institution.¹
2. The student must have a bachelor's degree in any other discipline with an overall GPA of at least 2.85/4.0 or a GPA of at least 3.0/4.0 in the last half of all undergraduate work, and should at least have two years of working experience in software development. In this case, the student should provide at least two references from the work place. The referees should be able to comment on the knowledge and skills of the student in software development.

¹ A dual degree option allows UWL computer science students to apply for admission to the Master of Software Engineering Program before completion of their undergraduate degree. Students seeking this option must consult an adviser early in their academic career to qualify for the dual degree.

More information can be obtained online in the Department of Computer Science (<http://cs.uwlax.edu/programs/graduate-mse/>).

Application deadline is May 1 of each year for fall semester and November 1 for spring semester.

Curriculum

Each student in the program should complete 24 credits of course work and 12 credits of project work. The course work consists of five core courses and three elective courses.

Code	Title	Credits
Core courses		
CS 555	Fundamentals of Information Security	3
CS 741	Software Engineering Principles	3
CS 743	Software Verification and Validation	3
CS 744	Software Project Management	3
CS 746	Software Modeling and Analysis	3
Elective courses		
Select nine credits from the following:		9
CS 502	Web Application Development	
CS 510	Free and Open Source Software Development	
CS 518	Mobile Application Development	
CS 519	Topics in Computer Science	
CS 521	Programming Language Concepts	
CS 531	Introduction to Robotics	
CS 541	Operating System Concepts	
CS 542	Structures of Compilers	
CS 543	Topics in Operating Systems	
CS 549	Advances in Software Engineering	
CS 551	User Interface Design	
CS 552	Artificial Intelligence	
CS 553	Introduction to Theory of Computation	
CS 554	Digital Image Processing	
CS 556	Secure Software Development	
CS 557	Machine Learning	
CS 561	Introduction to Data Science	
CS 564	Advanced Database Management Systems	
CS 570	Parallel and Distributed Computing	
CS 571	Computer Networks	
CS 572	Internet of Things	
CS 575	Computer Graphics and Modeling	
CS 576	Data Visualization	
CS 750	Topics in Software Engineering	
CS 751	Seminar in Software Engineering	
CS 752	Independent Study	
Capstone project work		
CS 798	Software Development Project (take at least two semesters, maximum of six per semester)	12
Total Credits		36

CS 798 Software Development Project (1-6 cr.) is a 12-credit course involving a major software development project and requires the development of software for a particular application. Upon registering for this course, a student should choose a problem, analyze its feasibility in terms of time limits and resources, develop the requirements document and design (architectural and detailed) document, implement the design and demonstrate the product with appropriate test cases. A project proposal must be submitted to the Project Evaluation Committee (PEC) in the Department of Computer Science for approval before starting the project. This proposal should include the goals, project plan, time schedule, resource requirements and other details pertinent to the project. A student can register for the project course at any time after

completing at least three courses and continue to work on the project thereafter. Depending on the work done in each term, the student will be given appropriate number of credits per term as outlined in the project proposal. The project advisor (a member of the PEC) is responsible for checking the work proposed/done in each term and giving the appropriate number of credits.

At the completion of the project, the student should submit a written project report that satisfies the requirements stated in *A Guide for Writing a Software Development Project Report* (available from the Department of Computer Science). This report will be evaluated by PEC. After PEC has read the report, (normally within a month after submission), an oral examination will be conducted. Members of PEC and the project supervisors/advisers (stated below) will serve as the examiners for this oral examination. The student will be given a pass/fail grade for the course at the end of the oral examination.

The project will address a real-world problem and hence will be selected from anywhere outside the Department of Computer Science. The purpose of this project work is to apply the knowledge gained in the course work to a real-world problem. Project sponsors may be from other departments (academic and administrative) in the university or from industries. A faculty member in the Department of Computer Science and a supervisor in the unit from where the problem is chosen (another department or industry) will jointly supervise/guide the student. In the event of not being able to find a suitable project outside the Department of Computer Science, the student may seek a project given by one of the faculty members in the department. The same faculty will supervise/guide the student. The latter option provides an opportunity for students to conduct research in software engineering.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
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4. Earn a cumulative grade point average of at least 3.00.
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archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.

6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

CST - Cybersecurity Graduate Program

Cybersecurity Program

Director: Jennifer Butler Modaff

4219 Centennial Hall; 608.785.6717

Email: jbutlermodaff@uwlax.edu

<https://uwex.wisconsin.edu/cybersecurity/>

<https://www.uwlax.edu/grad/cybersecurity/>

The Master of Science in Cybersecurity Program is a fully **online** graduate program consisting of 34 credits (seven core courses, three concentration or track courses, a capstone preparation course and a project-based capstone course). The degree program is offered jointly by UW-La Crosse, UW-Green Bay, UW-Oshkosh, UW-Parkside, UW-Platteville, UW-River Falls, UW-Stevens Point, and UW-Superior. This program represents a comprehensive, multidisciplinary curriculum that prepares students to advance their careers and pursue their academic ambitions through leadership and management positions within the cybersecurity field. The program will equip students with the skills needed to effectively develop, implement and maintain a digital security strategy within diverse organizations and industry sectors.

In addition, the program offers four unique tracks to assist students in tailoring their coursework to meet their career goals:

- Digital forensics
- Cyber response
- Governance and leadership
- Security architecture

Graduates of the program will gain the core competencies required to assume a variety of roles across a wide range of industries to include cybersecurity analyst, security consultant, cybersecurity manager, computer system analyst, security application analyst, and information technology specialist.

Graduate degree

- Cybersecurity - MS (p. 43)

Cybersecurity - Master of Science

Program requirements

Admission

Admission to the Master of Science in Cybersecurity Program requires:

1. Completion of the prerequisite coursework: Introduction to Computer Science and either Calculus or Statistics. The Introduction to Computer Science course prerequisite should show evidence of programming and database competencies. Students will be required to satisfy all program prerequisites prior to formal admission into the program.
2. An overall undergraduate grade point average of at least 3.00 on a 4.00 scale.
3. A completed bachelor's degree.

Curriculum

34 credits

Code	Title	Credits
Core		21
CYB 700	Fundamentals of Cybersecurity	
CYB 703	Network Security	
CYB 705	Sociological Aspects of Cybersecurity	
CYB 707	Cybersecurity Program Planning and Implementation	
CYB 710	Introduction to Cryptography	
CYB 715	Managing Security Risk	
CYB 720	Communication in Cybersecurity	
Choose one track		9
Digital forensics track		
CYB 725	Computer Forensics and Investigations	
CYB 730	Computer Criminology	
CYB 735	Network Forensics	
Cyber response track		
CYB 740	Incident Response and Remediation	
CYB 745	Secure Operating Systems	
CYB 750	Offensive Security and Threat Management	
Governance and leadership track		
CYB 755	Security Administration	
CYB 760	Cybersecurity Leadership and Team Dynamics	
CYB 765	Cybersecurity Management	
Security architecture track		
CYB 770	Security Architecture	
CYB 775	Applied Cryptography	
CYB 780	Software Security	
CYB 785	Cyber Physical System Security	
Capstone		4
CYB 789	Cybersecurity Pre-Capstone	
CYB 790	Cybersecurity Capstone	
Total Credits		34

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
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7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Athletic Training Graduate Program

Athletic Training Program

Director: Mark Gibson

124 Mitchell Hall; 608.785.8190

Email: mgibson@uwlax.edu

www.uwlax.edu/grad/athletic-training/ (<https://www.uwlax.edu/grad/athletic-training/>)

The goal of the Athletic Training Graduate Program is to prepare students for professional practice in healthcare that demands interprofessional collaboration, a high degree of autonomy in decision-making, and a skill set in evidence-based practice. Athletic training graduates will enter professional practice as health care providers who collaborate with physicians to provide services in prevention, emergency care, clinical diagnosis, therapeutic intervention and rehabilitation of injuries and medical conditions. Graduates from the program become leading clinicians, researchers, and educators.

The Master of Science (MS) degree earned in the Athletic Training Program will prepare students in the areas of evidence-based practice, prevention and health promotion, clinical examinations and diagnosis, acute care of injury and illness, therapeutic interventions, psychosocial strategies and referral, healthcare administration, and professional development and responsibility. Students will gain:

1. Professional content knowledge based on best practices;
2. Diverse high quality clinical experiences;
3. The foundation for ethical decision-making;
4. Motivation to become a lifelong learner;
5. Inspiration to serve the athletic training profession, and;
6. An understanding of the role of scholarship and research in athletic training.

Graduate degree

- Athletic training - MS (p. 44)

Athletic Training - Master of Science

Program requirements

Admission

Admission to the Athletic Training Program is competitive and not all who apply can be accommodated. Students who desire admission to the Master of Science in Athletic Training Program must meet the requirements and complete the admission process by the posted deadline.

Students must earn a Bachelor degree prior to entering the athletic training program. Students may complete their B.A. or B.S. while applying, but they must complete their degree before matriculations in the program. Accepted students will need to submit a final transcript demonstrating the issuance of their degree. The program does not require the Bachelor degree be completed in any particular major or discipline, nor does the program have any bias toward a particular major or discipline.

All prerequisite courses must be completed prior to beginning the program. Students may apply with outstanding courses so long as they demonstrate a plan to complete those courses before matriculating in the program. For further information on prerequisite course requirements, please visit Prerequisite coursework.

Application deadline for enrollment in the program is January 1. After January 1, rolling admissions will follow. Application is through Athletic Training Central Application System (ATCAS). (<https://atcas.liaisoncas.com/applicant-ux/#/login>)

Students admitted into the athletic training program must maintain a minimum 3.0 cumulative in all course work, and have a clinical evaluation score of 3.0 or above (5.0 scale). Failure to meet any one

of these retention criteria requires the student to be on a probationary status. If the student does not meet all criteria in two consecutive semesters, the student will be removed from the program.

Curriculum

(68 credits)

Code	Title	Credits
ATS 740	Research Methods in Athletic Training	2
ATS 745	Statistics for Athletic Trainers	2
ATS 710	Emergency Care Principles in Healthcare	4
ATS 700	Professional Practice and Athletic Training Healthcare	4
ATS 702	Functional Anatomy and Medical Physiology	3
ATS 712	Diagnosis and Therapeutic Interventions I	5
ATS 731	Athletic Training Clinical I	4
ATS 741	Athletic Training Research I	1
ATS 704	Applied Neuroscience in Athletic Training	3
ATS 714	Diagnosis and Therapeutic Interventions II	5
ATS 732	Athletic Training Clinical II	4
ATS 742	Athletic Training Research II	1
ATS 716	Pathophysiology of General Medical Conditions	3
ATS 720	Lifespan Wellness and Conditions	5
ATS 722	Rehabilitation Psychology and Healthcare Sociology in Athletic Training	2
ATS 718	Healthcare Administration in Athletic Training	3
ATS 733	Athletic Training Clinical III	3
ATS 743	Athletic Training Research III	2
ATS 750	Athletic Training Readings	2
ATS 734	Athletic Training Clinical IV	6
ATS 744	Athletic Training Research IV	2
ATS 750	Athletic Training Readings	2
Total Credits		68

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.

5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
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7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

ESS - Clinical Exercise Physiology Graduate Program

Clinical Exercise Physiology Program

Director: John Porcari

141 Mitchell Hall; 608.785.8684

Email: jporcari@uwlax.edu

www.uwlax.edu/grad/clinical-exercise-physiology/ (<https://www.uwlax.edu/grad/clinical-exercise-physiology/>)

The Master of Science in Clinical Exercise Physiology Program is a 46-credit program that provides the theoretical, laboratory, research and clinical experiences necessary for a career in a cardiopulmonary rehabilitation setting. Each year's class (15 students) entering the four-semester program - summer, fall, spring, summer - receives practical, hands-on experience in Phases I and II cardiac rehabilitation, as well as graded exercise testing, in cooperation with area hospitals and clinics.

In addition, students participate in the on-campus La Crosse Exercise and Health Program (LEHP), which provides adult fitness, Phases III and IV cardiac rehabilitation programming, and health and nutrition services to over 300 participants each week. The required internship - three months during the last semester - presents opportunities for further experience at a site of the student's choosing. The completion of a thesis project is required before the student is allowed to begin the internship.

Degree candidates typically have an undergraduate degree in physical education, fitness, exercise science, or other allied health related fields such as biology, health education, nursing, or physical therapy. A minimum undergraduate grade point average of 3.00 is required for admission. Application deadline is January 15 of each year.

Graduates are prepared to:

- Conduct graded exercise tests
- Design exercise programs for healthy and diseased populations
- Organize and administer adult fitness, corporate fitness, and cardiopulmonary rehabilitation programs

Graduates are employed in:

- Colleges and universities
- Adult fitness centers (public, private, and corporate)
- Clinic, hospital, and "free standing" rehabilitation facilities
- Sports medicine centers

Graduate degree

- Clinical exercise physiology - MS (p. 45)

Clinical Exercise Physiology - Master of Science

Program requirements

Admission

Degree candidates typically have an undergraduate degree in physical education, fitness, exercise science, or other allied health related fields such as biology, health education, nursing, or physical therapy. A minimum undergraduate grade point average of 3.00 is required for admission. Application deadline is January 15 of each year.

Prerequisites or their equivalent for admission into the program are:

Code	Title	Credits
ESS 205	Human Anatomy and Physiology for Exercise Science I	3
ESS 206	Human Anatomy and Physiology for Exercise Science II	3
ESS 281	Prevention and Care of Athletic Injuries	2
ESS 302	Physiology of Exercise	3

Curriculum

Code	Title	Credits
Category A - Research (12 credits)		
ESS 730	Research Methods for Exercise and Sport Science	3
ESS 735	Statistics for Exercise and Sport Science	3
ESS 799	Research: Master's Thesis	6
Category B - Core requirements (34 credits)		
ESS 744	Lab Techniques in Clinical Exercise Physiology	3
ESS 770	Physiology of Activity	3
ESS 774	Clinical in Phase I and Phase II Cardiac Rehabilitation	2
ESS 776	Clinical in Adult Fitness/Phase III Cardiac Rehabilitation (taken three times)	9
ESS 780	Philosophy and Organization of Preventive and Rehabilitative Programs	2
ESS 782	Electrocardiography	3
ESS 783	Graded Exercise Testing and Exercise Prescription	3
ESS 784	Advanced Cardiovascular Physiology	3
ESS 785	Internship: Clinical Exercise Physiology	5

ESS 786	Advanced Cardiac Life Support (ACLS)	1
Total Credits		46

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
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Sample degree plan

Year 1			
Summer	Credits Fall	Credits Spring	Credits
ESS 776	3 ESS 770	3 ESS 784	3
ESS 782	3 ESS 744	3 ESS 783	3
ESS 730	3 ESS 735	3 ESS 780	2
	ESS 774	2 ESS 776	3
	ESS 776	3 ESS 799	3

	ESS 786	1	
	ESS 799	3	
	9	18	14
Year 2			
Summer	Credits		
ESS 785	5		
	5		
Total Credits: 46			

ESS - Exercise and Sport Science: Physical Education Teaching Graduate Program

Exercise and Sport Science: Physical Education Teaching Graduate Program

Director: Zach Beddoes

152 Mitchell Hall; 608.785.6524

Email: zbeddoes@uwlax.edu

Exercise and Sport Science: Physical Education Teaching with Adapted Physical Education Emphasis

Program Coordinator: Brock McMullen

216 Mitchell Hall; 608.785.8167

Email: bmcullen@uwlax.edu

Exercise and Sport Science: Physical Education Teaching with Adventure/Outdoor Pursuits Emphasis

Program Coordinator: Jenna Starck

219 Mitchell Hall; 608.785.6535

Email: jstarck@uwlax.edu

www.uwlax.edu/grad/physical-education-teaching/ (<https://www.uwlax.edu/grad/physical-education-teaching/>)

The Physical Education Teaching Program is designed as a practitioner-oriented program for physical education teaching professionals seeking additional qualifications and expertise in areas such as teaching methods and styles, new and innovative curricular design, analysis of effective teaching, supervision, adventure, adapted physical education, and outdoor education.

Students select either the thesis option (36 credits) or non-thesis option (33-36 credits). Students choosing the non-thesis option must apply for and successfully complete comprehensive written exams in the department of exercise and sport science. Within the PE teaching degree program, students must also select among the following:

1. Electives related to the field of teaching,
2. Adapted physical education emphasis, or
3. Adventure/outdoor pursuits emphasis.

All elective credits selected by the student must be approved by the program director. Additional course work may be required based on previously completed undergraduate courses.

The physical education teaching program does not result in a K-12 teaching certificate.

Graduate degrees

- Exercise and sport science: physical education teaching - MS (p. 47)
- Exercise and sport science: physical education teaching - MS: adapted physical education emphasis (p. 48)

- Exercise and sport science: physical education teaching - MS: adventure/outdoor pursuits emphasis (p. 49)

ESS: Physical Education Teaching - Master of Science

Program requirements

Admission Prerequisites

Prerequisites for admission or equivalents are:

1. Undergraduate major/minor in physical education and/or sport science/management from an accredited four-year institution.
2. Documented course work in the following areas:
 - Anatomy/physiology
 - Measurement and evaluation in physical education
 - Adapted physical education
 - Motor development/behavior/child development

Curriculum

33 - 36 credits depending on research option

Category A - research

- Thesis option

Code	Title	Credits
ESS 730	Research Methods for Exercise and Sport Science	3
ESS 735	Statistics for Exercise and Sport Science	3
ESS 799	Research: Master's Thesis	6
Total Credits		12

- Non-thesis option

Code	Title	Credits
ESS 730	Research Methods for Exercise and Sport Science	3
ESS 752	Assessment of Physical Education and Athletics	3
Written comprehensive exam required		
Total Credits		6

Category B - core requirements

Code	Title	Credits
ESS 725	Diversity in the Physical Activity Setting	2
ESS 727	Planning for Effective Instruction in Physical Education	2
ESS 737	Curriculum Design in Physical Education	2
ESS 759	Analysis and Supervision of Physical Education	3
ESS 765	Adventure Education for Physical Educators	2-3
ESS 771	Current Issues in Physical Education	2-3
Total Credits		14

Category C - electives

Thesis option: 10 credits

Non-thesis option: 13 elective credits

Elective courses must be related to the field of teaching. A student may select a variety of courses offered in exercise and sport science, health

education, and educational studies departments. All electives must be pre-approved by the program director. Up to six credits of ESS 560 Exercise Science Clinical Forum will count toward this category.

At least half of the credits in the degree must be earned in 700 level courses.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

ESS: Physical Education Teaching - Adapted Physical Education Emphasis - Master of Science

Program Coordinator: Brock McMullen
216 Mitchell Hall; 608.785.8167
Email: bmcullen@uwlax.edu

www.uwlax.edu/grad/physical-education-teaching/adapted-physical-education-graduate-study/ (<https://www.uwlax.edu/grad/physical-education-teaching/adapted-physical-education-graduate-study/>)

Persons seeking graduate level adapted physical education (APE) professional development can pursue the Master of Science degree in physical education teaching with an emphasis in teaching APE. This is a practitioner oriented program for teachers seeking additional expertise, evidence-based content knowledge, technology skills, and clinical experiences in physical education for PK-12 students with disabilities in general and/or specially designed physical education classes.

Students who successfully complete this graduate program are eligible for the Wisconsin add-on teaching license in APE (WI EC-A #860). Graduates of the program are primarily hired by school districts as adapted and/or general physical education teachers. These teachers are often employed as itinerant (traveling) APE specialists within a district and may teach students from grades PK-12 in several schools. Graduates are hired throughout the United States to serve as APE instructional leaders for school districts.

Roles commonly performed in school districts by these APE professionals include:

- Teaching at early childhood, elementary, middle, and secondary levels
- Serving as itinerant or traveling APE teachers at several schools within a school district
- Collaborating with special education and related service personnel
- Teaching students with disabilities in one-on-one, small group, or large group classes
- Preparing paraprofessionals/teaching assistants for supervised APE instruction
- Consulting with general physical education teachers and special education staff
- Team teaching in inclusive settings while assisting general physical education teachers
- Assessing physical and motor development for IEP planning and implementation
- Designing and monitoring measurable IEP goals and objectives
- Using evidence-based teaching strategies, including instructional technologies
- Transitioning students from school-based to community-based instruction leading to healthy and active lifestyles
- Coaching school and community-based sport programs for students with and without disabilities

Some graduates of this program progress to full-time doctoral study at institutions such as Oregon State University, University of Virginia, University of Michigan, Texas Woman's University, Ohio State University,

and others that specialize in disability related fields. UW-La Crosse graduates from the APE program are faculty at many of the leading higher education institutions that prepare physical education teachers for students with disabilities.

The APE graduate program can be completed while students are enrolled either full-time or on a part-time basis. There is much flexibility for currently employed teachers who only desire additional certification, not a graduate degree. The purpose of the certification-only program is to assist general physical education teachers to acquire the knowledge and skills to become highly qualified and effective APE specialists and enable them to be eligible for Wisconsin APE teaching licensure. This certification-only program can be completed in 2-3 summers and during the academic year depending on course loads and course availability. Clinical experiences are part of this program.

Center on Disability Health and Adapted Physical Activity

The Center on Disability Health and Adapted Physical Activity (<http://www.uwlax.edu/cdhapa/>) (Center) is a focal point of the APE teacher preparation program. One of only five centers at UW-La Crosse, the Center implements many on-campus and community-based physical activity programs for individuals with disabilities of all ages. A primary mission of the Center is to conduct a variety of physical activity/education programs serving children, youth, and adults with disabilities.

Opportunities to enhance teaching competencies and gain advanced leadership skills are afforded to future APE professionals. The Center serves as a resource for parents, school districts, human service agencies, and local and state agencies, as well as national organizations focusing on physical activity and health for individuals with disabilities. Examples of programs include: Children's Motor Development Program; Physical Activity Mentoring Program; Adult Fitness Program; Adapted Aquatic Program; and Adapted Sport Programs.

Financial assistance

Financial assistance is generally available each year for qualified students who pursue their graduate degree on a full-time basis. Assistance is usually in the form of graduate assistantships and/or fellowships that may include a stipend, tuition assistance for resident and nonresident students, fringe benefits, an office on campus, school-based teaching with an APE teacher mentor, and opportunities to work alongside faculty in teaching, research, service, and professional development.

Program requirements

Admission

Prerequisites for admission or equivalents are:

1. Undergraduate major/minor in physical education and/or sport science/management from an accredited four-year institution.
2. Documented course work in the following areas:
 - Anatomy/physiology
 - Measurement and evaluation in physical education
 - Adapted physical education
 - Motor development/behavior/child development

Curriculum

36 credits

Category A - research

• Thesis option

Code	Title	Credits
ESS 730	Research Methods for Exercise and Sport Science	3
ESS 735	Statistics for Exercise and Sport Science	3
ESS 799	Research: Master's Thesis	6
Total Credits		12

• Non-thesis option

Code	Title	Credits
ESS 730	Research Methods for Exercise and Sport Science	3
ESS 536	Assessment in Adapted Physical Education	3
ESS 736	Critical Analysis Project: Adapted Physical Education	3
Total Credits		9

Category B - core requirements

Code	Title	Credits
ESS 725	Diversity in the Physical Activity Setting	2
ESS 727	Planning for Effective Instruction in Physical Education	2
ESS 737	Curriculum Design in Physical Education	2
ESS 759	Analysis and Supervision of Physical Education	3
ESS 765	Adventure Education for Physical Educators	3
ESS 771	Current Issues in Physical Education	2-3
Total Credits		14

Category C - adapted physical education teaching requirements

Thesis option: 10 credits

Non-thesis option: 13 credits

Code	Title	Credits
ESS 530	Disability and Physical Activity Implications	3
ESS 535	Sport for Persons with Disabilities	1
ESS 537	Teaching and Service Delivery Models in Adapted Physical Education	3
ESS 787	Clinical Internship in Adapted Physical Education	3
Elective (required for non-thesis option only) ¹		3

¹ Consult with program director for appropriate coursework.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree

requirements within ten years from the time of initial enrollment in the graduate program.

3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

ESS: Physical Education Teaching - Adventure/Outdoor Pursuits Emphasis - Master of Science

Program requirements

Admission

Prerequisites for admission or equivalents are:

1. Undergraduate major/minor in physical education and/or sport science/management from an accredited four-year institution.
2. Documented course work in the following areas:
 - Anatomy/physiology
 - Measurement and evaluation in physical education
 - Adapted physical education
 - Motor development/behavior/child development

Curriculum

33 - 36 credits depending on research option

Category A - research• **Thesis option**

Code	Title	Credits
ESS 730	Research Methods for Exercise and Sport Science	3
ESS 735	Statistics for Exercise and Sport Science	3
ESS 799	Research: Master's Thesis	6
Total Credits		12

• **Non-thesis option**

Code	Title	Credits
ESS 730	Research Methods for Exercise and Sport Science	3
ESS 752	Assessment of Physical Education and Athletics	3
Written comprehensive exam required		
Total Credits		6

Category B - core requirements

Code	Title	Credits
ESS 725	Diversity in the Physical Activity Setting	2
ESS 727	Planning for Effective Instruction in Physical Education	2
ESS 737	Curriculum Design in Physical Education	2
ESS 759	Analysis and Supervision of Physical Education	3
ESS 765	Adventure Education for Physical Educators	3
ESS 771	Current Issues in Physical Education	2-3
Total Credits		14

Category C - electives**Thesis option: 10 credits****Non-thesis option: 13 credits**

Code	Title	Credits
ESS 745	Pedagogy of Outdoor Physical Education	3
ESS 777	Seminar in Adventure/Outdoor Physical Education	2
ESS 778	Practicum in Adventure Education	2
Select one of the following: ¹		3-6
Electives thesis option (three credits)		
Electives non-thesis option (six credits)		
Total Credits		10-13

¹ Consult with program director for appropriate coursework.**University requirements****University graduate degree requirements**

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.

3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

HED - Healthcare Administration Graduate Program

Healthcare Administration Program

Director: Keely Rees

217 Mitchell Hall; 608.785.8168

Email: krees@uwlax.edu

<https://healthcareadministration.wisconsin.edu/>

<https://www.uwlax.edu/grad/health-care-administration/>

The Master of Science in Healthcare Administration Program is a fully **online** curriculum consisting of 37 credits (12 three-credit courses and a one-credit capstone preparation course). The degree program is offered jointly by UW-Eau Claire, UW-La Crosse, UW-Parkside, UW-Platteville, UW-Stevens Point, and UW-Stout. The degree is designed to give graduates greater understanding of management issues and prepare them for senior management roles in diverse healthcare institutions. The required capstone represents the culminating experience in the program providing students with the opportunity to apply skills acquired from coursework through a project-based experience that addresses a problem, need or concern in a healthcare setting.

Students graduating from this program are well-prepared to become influential decision makers in a healthcare organization. A M.S. in healthcare administration opens up a wide array of fulfilling, rewarding job opportunities in every area of the country and in nearly any

healthcare setting, including: ambulatory settings such as hospitals, physicians offices, surgical centers, long term care, assisted living, skilled nursing facilities, veterinary offices, correctional facilities, insurance companies, veterans affairs systems, pharmaceutical companies, and medical supply vendors.

Graduate degree

- Healthcare administration - MS (p. 51)

Healthcare Administration - Master of Science

Program requirements

Admission

Admission to the Master of Science in Healthcare Administration Program requires:

1. Completion of the prerequisite coursework: elementary statistics, medical terminology and oral communication/public speaking. Students lacking one of the prerequisite courses may be conditionally admitted contingent on remediation of that prerequisite. Remediated prerequisite courses do not count toward the M.S. degree.
2. An overall undergraduate grade point average of at least 3.00 on a 4.00 scale, an average of at least 3.00 in the last half of all undergraduate work, or an average of at least 3.00 for no less than 12 semester credits of graduate study at another accredited graduate school.

Curriculum

(37 credits)

Code	Title	Credits
HCA 700	US Healthcare Systems	3
HCA 705	Population Health and Epidemiology	3
HCA 710	Health Communication	3
HCA 715	Healthcare Technology, Data Analytics, and Information Governance	3
HCA 720	Healthcare Financial Management	3
HCA 730	Human Capital Management in Healthcare	3
HCA 740	Healthcare Operations and Project Management	3
HCA 750	Healthcare Quality and Performance Management	3
HCA 760	Health Law and Policy	3
HCA 770	Organization Development and Strategic Leadership in Healthcare	3
HCA 780	Communicating Current and Emerging Topics in Healthcare	3
HCA 789	Capstone Preparation	1
HCA 790	Healthcare Administration Capstone	3
Total Credits		37

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
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7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

HP - Medical Dosimetry Graduate Program

Medical Dosimetry Program
4033 Health Science Center; 608.785.8470
Email: mdprogram@uwlax.edu

Director: Nishele Lenards
4031 Health Science Center; 608.785.6622
Email: nlenards@uwlax.edu

www.uwlax.edu/grad/medical-dosimetry/ (<https://www.uwlax.edu/grad/medical-dosimetry/>)

The Medical Dosimetry Program offers a Master of Science that provides students with an educational foundation in medical dosimetry as well as clinical experience in a radiation oncology department. The curriculum requires online courses taken synchronously with a clinical internship at an affiliated site. Admission to the program is on a competitive basis.

"The Medical Dosimetrist is a member of the radiation oncology team who has knowledge of the overall characteristics and clinical relevance of radiation oncology treatment machines and equipment, is cognizant of procedures commonly used in brachytherapy and has the education and expertise necessary to generate radiation dose distributions and dose calculations in collaboration with the medical physicist and radiation oncologist" (A.A.M.D.).

This program utilizes web-based instruction for the didactic coursework. The clinical practicum courses and field work are taken at affiliated radiation oncology departments and are approximately 30-40 hours per week.

Routes of entry into Master of Science program

Route of entry	Student Profile	Length	Number of Credits
Track A	For radiation therapists	4 terms	46
Track B	For non-radiation therapists	4 terms	46
Track C	For certified medical dosimetrists	3 terms	31

2020-21 Faculty/Staff

The following is the graduate faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Clinical Associate Professor

Nishele Lenards, Program Director

Clinical Assistant Professor

Anne Marie Vann, Clinical Coordinator

Administrative Support

Pete Amann

Emilee Mielke

Chelsey Nelson

Shauna Salow

Angela Wiste

Graduate degrees

- Dosimetry for radiation therapist (track A) - MS (p. 52)
- Dosimetry for non-radiation therapist (track B) - MS (p. 53)
- Dosimetry for certified medical dosimetrists (track C) - MS (p. 55)

Dosimetry for Radiation Therapist (Track A) - Master of Science

Track A includes a 12 month clinical internship program. Clinical Internships will take place from **January through December**. The didactic online courses begin in the fall semester prior to starting clinical internship training. This Master of Science program not only delivers the core medical dosimetry curriculum, it also offers advanced professional and research coursework that prepares graduates for future advancement in the profession. Upon graduation, the student is considered a Route 1 exam applicant by the MDCB (<http://www.mdc.org>). This program adheres to all JRCERT accreditation standards.

Program requirements

Dosimetry admission to program policy

Admission policies and the application/selection process have been developed with the intention to consider each applicant's strengths and select for admission those best qualified to meet the program's requirements and mission.

- Applicant must have an earned baccalaureate degree. (A degree in biology, chemistry, computer science, mathematics, physics, radiation therapy, radiologic sciences, or other areas approved by the program.)
- Cumulative GPA of 3.0; minimum GPA of 3.0 in science and math coursework
- Minimum of 40 hours of documented medical dosimetry observation (must be completed by an individual not providing a letter of reference)
- Documented experience working with patients in a healthcare environment
- Completed program and UW System application with four letters of reference
- Interviews with adjunct faculty at clinical internship sites
- Students for whom English is a second language must earn a minimum score of 100 on the internet-based Test of English as a Foreign Language (TOEFL), 7.5 on the International English Language Testing System (IELTS), or a comparable score on another approved English proficiency examination within two years of application to the program (no exemptions).

Prerequisite coursework

Code	Title	Credits
	Human Anatomy & Physiology 2-course sequence with labs; or equivalent	6-8
	Physics-2 course sequence; or equivalent	6-8
	Pre-Calculus; or College Algebra + Trigonometry; or equivalent	3-4
	Biology; or equivalent	3-4
	Medical Terminology; or equivalent	1-3

Curriculum - Track A (for radiation therapists)

Students enrolled in the Master of Science degree program must take all courses in sequence per semester as a cohort (see sample degree plan tab). Courses are listed in order of enrollment.

46 credits

Code	Title	Credits
DOS 511	Imaging and Localization Concepts	2
DOS 513	Anatomy for Medical Dosimetrists	1
DOS 514	Physics Fundamentals for Medical Dosimetrists	3
DOS 515	Computers and Networking in Radiation Oncology	1
DOS 516	Fundamentals of Radiation Safety	1
DOS 750	Professional e-Portfolio	1
DOS 522	Radiation Dose Calculations	2
DOS 523	Treatment Planning in Medical Dosimetry	3
DOS 525	Brachytherapy for Medical Dosimetrists	2
DOS 711	Research Methodology in Medical Dosimetry I	2
DOS 771	Dosimetry Clinical Practicum I	5
DOS 518	Professional Issues in Medical Dosimetry	2
DOS 531	Clinical Oncology for Medical Dosimetrists	3
DOS 731	Research Methodology in Medical Dosimetry II	2
DOS 741	Protocols and Studies in Radiation Oncology	1
DOS 772	Dosimetry Clinical Practicum II	5
DOS 541	Radiobiology for Medical Dosimetrists	1
DOS 542	Dosimetric Quality Assurance	1
DOS 543	Seminar in Medical Dosimetry	1
DOS 773	Dosimetry Clinical Practicum III	5
DOS 751	Research Methodology in Medical Dosimetry III	2
Total Credits		46

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where

applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.

6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Sample degree plan

Year 1			
Fall	Credits Spring	Credits Summer	Credits
DOS 511	2 DOS 522	2 DOS 541	1
DOS 513	1 DOS 523	3 DOS 525	2
DOS 514	3 DOS 711	2 DOS 731	2
DOS 515	1 DOS 531	3 DOS 741	1
DOS 516	1 DOS 771	5 DOS 772	5
DOS 750	1		
	9	15	11
Year 2			
Fall	Credits		
DOS 542	1		
DOS 543	1		
DOS 751	2		
DOS 518	2		
DOS 773	5		
	11		

Total Credits: 46

Dosimetry for Non-Radiation Therapist (Track B) - Master of Science

Track B includes a 12 month clinical internship program. Clinical Internships will take place from **January through December**. The didactic online courses begin in the fall semester prior to starting clinical internship training. This Master of Science program not only delivers the core medical dosimetry curriculum, it also offers advanced professional and research coursework that prepares graduates for future advancement in the profession. Upon graduation, the student is considered a Route 1 exam applicant by the MDCB (<http://www.mdcb.org>). This program adheres to all JRCERT accreditation standards.

Program requirements

Dosimetry admission to program policy

Admission policies and the application/selection process have been developed with the intention to consider each applicant's strengths and select for admission those best qualified to meet the program's requirements and mission.

- Applicant must have an earned baccalaureate degree. (A degree in biology, chemistry, computer science, mathematics, physics, radiation therapy, radiologic sciences, or other areas approved by the program.)
- Cumulative GPA of 3.0; minimum GPA of 3.0 in science and math coursework
- Minimum of 40 hours of documented medical dosimetry observation (must be completed by an individual not providing a letter of reference)
- Documented experience working with patients in a healthcare environment
- Completed program and UW System application with four letters of reference
- Interviews with adjunct faculty at clinical internship sites
- Students for whom English is a second language must earn a minimum score of 100 on the internet-based Test of English as a Foreign Language (TOEFL), 7.5 on the International English Language Testing System (IELTS), or a comparable score on another approved English proficiency examination within two years of application to the program (no exemptions).

Prerequisite coursework

Code	Title	Credits
	Human Anatomy & Physiology 2-course sequence with labs; or equivalent	6-8
	Physics-2 course sequence; or equivalent	6-8
	Pre-Calculus; or College Algebra + Trigonometry; or equivalent	3-4
	Biology; or equivalent	3-4
	Medical Terminology; or equivalent	1-3

Curriculum - Track B (for non-radiation therapists)

Students enrolled in the Master of Science degree program must take all courses in sequence per semester as a cohort (see sample degree plan tab). Courses are listed in order of enrollment.

46 credits

Code	Title	Credits
DOS 511	Imaging and Localization Concepts	2
DOS 513	Anatomy for Medical Dosimetrists	1
DOS 514	Physics Fundamentals for Medical Dosimetrists	3
DOS 515	Computers and Networking in Radiation Oncology	1
DOS 516	Fundamentals of Radiation Safety	1
DOS 750	Professional e-Portfolio	1
DOS 522	Radiation Dose Calculations	2
DOS 523	Treatment Planning in Medical Dosimetry	3
DOS 525	Brachytherapy for Medical Dosimetrists	2
DOS 711	Research Methodology in Medical Dosimetry I	2
DOS 771	Dosimetry Clinical Practicum I	5

DOS 518	Professional Issues in Medical Dosimetry	2
DOS 531	Clinical Oncology for Medical Dosimetrists	3
DOS 731	Research Methodology in Medical Dosimetry II	2
DOS 741	Protocols and Studies in Radiation Oncology	1
DOS 772	Dosimetry Clinical Practicum II	5
DOS 541	Radiobiology for Medical Dosimetrists	1
DOS 542	Dosimetric Quality Assurance	1
DOS 543	Seminar in Medical Dosimetry	1
DOS 773	Dosimetry Clinical Practicum III	5
DOS 751	Research Methodology in Medical Dosimetry III	2
Total Credits		46

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.

8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Sample degree plan

Year 1			
Fall	Credits Spring	Credits Summer	Credits
DOS 511	2 DOS 522	2 DOS 541	1
DOS 513	1 DOS 523	3 DOS 525	2
DOS 514	3 DOS 711	2 DOS 731	2
DOS 515	1 DOS 531	3 DOS 741	1
DOS 516	1 DOS 771	5 DOS 772	5
DOS 750	1		
	9	15	11

Year 2	
Fall	Credits
DOS 542	1
DOS 543	1
DOS 751	2
DOS 518	2
DOS 773	5
	11

Total Credits: 46

Dosimetry for Certified Medical Dosimetrists (Track C) - Master of Science

Track C is the Master of Science degree completion program for Certified Medical Dosimetrists (CMD's) who are currently employed and want to obtain a Master of Science degree. The online program enables CMD's to earn a Master of Science degree in the profession with minimal disruption to their lives. This flexible online program strongly emphasizes professional and academic growth. Advanced program courses such as "Professional Issues," "Protocols & Studies in Radiation Oncology," and research courses can enhance competitiveness for advanced level positions with increased pay in areas of management, senior medical dosimetry, education, applications, or research.

The program's 31 credits are obtained through web-based online lectures and discussions, independent study, and clinical experience.

Program requirements

Dosimetry admission to program policy

Admission policies and the application/selection process have been developed with the intention to consider each applicant's strengths and select for admission those best qualified to meet the program's requirements and mission.

- Applicant must have an earned baccalaureate degree. (A degree in biology, chemistry, computer science, mathematics, physics, radiation therapy, radiologic sciences, or other areas approved by the program.)
- Cumulative GPA of 3.0; minimum GPA of 3.0 in science and math coursework
- Minimum of 40 hours of documented medical dosimetry observation (must be completed by an individual not providing a letter of reference)
- Documented experience working with patients in a healthcare environment

- Completed program and UW System application with four letters of reference
- Interviews with adjunct faculty at clinical internship sites
- Students for whom English is a second language must earn a minimum score of 100 on the internet-based Test of English as a Foreign Language (TOEFL), 7.5 on the International English Language Testing System (IELTS), or a comparable score on another approved English proficiency examination within two years of application to the program (no exemptions).

Prerequisite coursework

Code	Title	Credits
	Human Anatomy & Physiology 2-course sequence with labs; or equivalent	6-8
	Physics-2 course sequence; or equivalent	6-8
	Pre-Calculus; or College Algebra + Trigonometry; or equivalent	3-4
	Biology; or equivalent	3-4
	Medical Terminology; or equivalent	1-3

Curriculum - Track C (for certified medical dosimetrists)

Students enrolled in the Master of Science degree program must take certain courses in sequence (see sample degree plan tab).

31 credits

Code	Title	Credits
DOS 711	Research Methodology in Medical Dosimetry I	2
DOS 750	Professional e-Portfolio	1
DOS 781	CMD Seminar I	3
DOS 791	Fieldwork I	4
DOS 518	Professional Issues in Medical Dosimetry	2
DOS 731	Research Methodology in Medical Dosimetry II	2
DOS 741	Protocols and Studies in Radiation Oncology	1
DOS 782	CMD Seminar II	3
DOS 792	Fieldwork II	4
DOS 751	Research Methodology in Medical Dosimetry III	2
DOS 783	CMD Seminar III	3
DOS 793	Fieldwork III	4
Total Credits		31

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the

minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.

4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Sample degree plan

This is a sample degree plan for completion of the Master of Science degree in 1 year (3 semesters). However, students can choose to take fewer courses per semester. Some courses must be taken in sequence.

First year	
Spring	Credits
DOS 711	2
DOS 750	1
DOS 781	3
DOS 791	4
	10
Total Credits: 10	

First year	
Summer	Credits
DOS 731	2
DOS 741	1
DOS 782	3
DOS 792	4
	10
Total Credits: 10	

First year

Fall	Credits
DOS 751	2
DOS 518	2
DOS 783	3
DOS 793	4
	11

Total Credits: 11

HP - Occupational Therapy Graduate Program

Occupational Therapy Program

4032 Health Science Center; 608.785.8470
Email: otprogram@uwlax.edu

Interim Program Director: Laura Schaffer

4049 Health Science Center; 608.785.8462
Email: lschaffer@uwlax.edu

www.uwlax.edu/grad/occupational-therapy/ (<https://www.uwlax.edu/grad/occupational-therapy/>)

Occupational therapists work with people of all ages facing physical, emotional, or mental challenges. Students who choose a career in occupational therapy will be instrumental in helping people participate fully in the daily occupations of their lives.

The University of Wisconsin-La Crosse Occupational Therapy Program is a regionally recognized program, grounded in foundational sciences, graduating entry level leaders in the field of occupational therapy, who serve as valuable interprofessional team members in the healthcare system. Graduates are committed to providing quality evidence-based services individualized to facilitate quality of life, wellness and participation throughout all populations.

Accreditation

The occupational therapy program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA).

6116 Executive Boulevard
Suite 200
North Bethesda, MD 20852-4929

Phone: 301.652.6611 x 2914

Fax: 240.762.5140

Email: accred@aota.org

Webpage: www.acoteonline.org (<http://www.acoteonline.org>)

2020-21 Faculty/Staff

The following is the graduate faculty as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Clinical Assistant Professor

Polly Berra, MS, OTR/L, Academic Fieldwork Coordinator

Erin McCann, OTD, OTR/L

Laura Schaffer, OTD, MA, OTR/L, Interim Program Director

Assistant Professor

Angela Benfield, Ph.D., OTR/L, Admissions Chair

Ingrid Van Duyne, DHSc, MRC, OTR/L

Graduate degree

- Occupational therapy - MS (p. 57)

Occupational Therapy - Master of Science

The Master of Science in Occupational Therapy Program is eight semesters (30 months) long with extensive clinical experiences woven throughout academic coursework. The last two semesters of the program are spent in full-time Level II fieldwork. Students should expect to incur additional expenses for books, course fees, housing and travel during clinical fieldwork.

A thesis option is available for students wishing to pursue independent research. Students must declare if they intend to complete the thesis option by the end of the first year in the program. Students pursuing the thesis option would delay enrollment in the OT 795 Level II Fieldwork until completion of the thesis.

Graduates of the program will be eligible to sit for the national certification examination for occupational therapy administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). In addition, most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certificate Examination. A felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.

Program requirements

Admission

1. Earned undergraduate degree (or degree completed prior to the start of the program)
2. Completion of all prerequisite course work

Code	Title	Credits
	Anatomy and Physiology	8
	Physics	4
	Life Span Development	3
	Statistics or Principles of Research	4
	Abnormal Psychology	3
	Introductory Sociology or Anthropology	3
3. A minimum grade point average of 3.0 for undergraduate studies
4. No grade of less than "C" in any prerequisite coursework
5. No more than two "C"s in prerequisite coursework
6. Completed application for admission to the Occupational Therapy Centralized Application Service (OTCAS)
7. Submission of GRE scores
8. Completion of admissions interview

Selection process

Twenty-six students are admitted each year. The deadline for application to the occupational therapy program is mid December for classes beginning the following May. Factors considered in the admission process are academic success (GPA), commitment to the profession of occupational therapy, and professional abilities as demonstrated in OTCAS application. Specific deadlines, application materials, and weighting of application criteria are available at 4031 Health Science Center and with the Occupational Therapy Program. (<https://www.uwlax.edu/grad/occupational-therapy/>)

Curriculum

Required coursework (in order of enrollment)

85 credits

Code	Title	Credits
OT 520	Introduction to Occupational Therapy	3
OT 523	Human Physiology	4
OT 524	Human Anatomy	5
OT 526	Foundations of Movement	3
OT 545	Applied Biomechanics and Kinesiology in Occupational Therapy	1
OT 550	Scholarly Practice I: Occupational Therapy Research	2
OT 570	Occupational Therapy Intervention: Group Dynamics	1
OT 571	Applied Occupational Therapy Intervention: Group Dynamics	1
OT 530	Occupational Performance Analysis	1
OT 531	Applied Occupational Performance Analysis	1
OT 611	Occupational Therapy in Acute Care Settings	2
OT 515	Functional Neuroanatomy	3
OT 751	Scholarly Practice II: Journal Club	1
OT 660	Occupational Performance: Mental Illness	2
OT 661	Applied Occupational Performance: Mental Illness	1
OT 670	Occupational Performance: Physical Dysfunction I	2
OT 671	Applied Occupational Performance: Physical Dysfunction I	1
OT 573	Level 1 Fieldwork: Mental Illness	1
OT 760	Scholarly Practice III: Research Seminar	3
OT 700	Physical Agent Modalities	1
OT 790	Level I Fieldwork: Physical Dysfunction	1
OT 770	Scholarly Practice IV: Evidence-Based Practice	2
OT 778	Impact of Psychosocial Issues on Occupation	2
OT 730	Occupational Performance: Physical Dysfunction II	2
OT 731	Applied Occupational Performance: Physical Dysfunction II	1
OT 650	Occupations and Interventions: Pediatrics I	2
OT 651	Applied Occupations and Interventions: Pediatrics I	1
OT 640	Therapeutic Adaptations in Occupational Therapy	1
OT 775	Critical Analysis of Practice	1
OT 787	Pediatric Clinical Practice	1
OT 776	Occupations and Interventions: Older Adult	2
OT 777	Applied Occupations and Interventions: Older Adult	1

OT 791	Level I Fieldwork: Pediatrics	1
OT 641	Health Care Systems	3
OT 780	Scholarly Practice V: Scientific Writing	1
OT 781	Applied Scholarly Practice V: Scientific Writing	1
OT 785	Adult Clinical Practice	1
OT 786	Applied Adult Clinical Practice	1
OT 630	Occupational Therapy Practice: Wellness Perspectives	2
OT 740	Occupations and Interventions: Pediatrics II	2
OT 741	Applied Occupational and Interventions: Pediatrics II	1
OT 726	Fieldwork Seminar	1
OT 795	Level II Fieldwork (taken twice)	12
OT 723	Occupational Science	2
OT 788	Applied Pediatric Clinical Practice	1
Total Credits		85

Optional electives

- OT 720 Selected Topics in Occupational Therapy will be taught periodically as an elective during Fall II or Spring II semesters.
- OT 724 Occupational Therapy Practice in a Global Context (1 cr.) and OT 798 Independent Study in Occupational Therapy are taught by arrangement with occupational therapy faculty.
- OT 799 Research: Master's Thesis is an elective and may be started in Fall II and would be repeated each semester until thesis is completed (minimum four – maximum six credits).

Degree completion requirements

Prior to granting the degree students must:

- Maintain a 3.0 GPA throughout the professional graduate program
- Successfully complete (grade of "C" or better) all didactic coursework requirements
- Successfully complete (grade of "pass") two Level II fieldwork placements (total of 24 weeks)
- Finish all Level II fieldwork within 24 months of completion of academic portion of the program

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://>

catalog.uwlax.edu/graduate/programrequirements/) listed in the catalog for the exact number of credits required.

4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Sample degree plan

Year 1

Summer	Credits	Fall	Credits	Spring	Credits
OT 520	3	OT 524	5	OT 515	3
OT 523	4	OT 526	3	OT 723	2
		OT 545	1	OT 751	1
		OT 550	2	OT 660	2
		OT 570	1	OT 661	1
		OT 571	1	OT 670	2
		OT 530	1	OT 671	1
		OT 531	1	OT 650	2
				OT 651	1
				OT 611	2
				OT 573	1
		7	15	18	

Year 2

Summer	Credits	Fall	Credits	Winter	Credits	Spring	Credits
OT 760	3	OT 775	1	OT 791	1	OT 641	3
OT 700	1	OT 770	2			OT 630	2
OT 790	1	OT 730	2			OT 780	1
		OT 731	1			OT 781	1
		OT 640	1			OT 726	1
		OT 776	2			OT 785	1
		OT 777	1			OT 786	1
		OT 778	2			OT 787	1
		OT 740	2			OT 788	1
		OT 741	1				
		5	15			1	12

Year 3

Summer	Credits Fall	Credits
OT 795	6 OT 795	6
	6	6

Total Credits: 85

Optional electives

- OT 720 Selected Topics in Occupational Therapy will be taught periodically as an elective during Fall II or Spring II semesters.
- OT 724 Occupational Therapy Practice in a Global Context (1 cr.) and OT 798 Independent Study in Occupational Therapy are taught by arrangement with occupational therapy faculty.
- OT 799 Research: Master's Thesis is an elective and may be started in Fall II and would be repeated each semester until thesis is completed (minimum four – maximum six credits).

HP - Physical Therapy Graduate Program

Doctor of Physical Therapy (DPT) Program
 4063 Health Science Center; 608.785.8470
 Email: pt@uwlax.edu

Program Director: Patrick Grabowski, PT, Ph.D, OCS
 4069 Health Science Center; 608.785.6623
 Email: pgrabowski@uwlax.edu

www.uwlax.edu/grad/physical-therapy/ (<https://www.uwlax.edu/grad/physical-therapy/>)

Physical therapists are health professionals educated at the doctoral level with expertise in the area of diagnosing and treating patients who have movement disorders. A professional doctoral degree involves extensive study over a wide range of courses integrating basic sciences with skilled professional practice. The practitioner must exhibit strong clinical skills and reasoning based on evidence-based rationale. Graduates will be able to enter practice with skills required to independently examine, evaluate, diagnose, render a prognosis, and assess outcomes for interventions in the management of impairments, functional limitations, and disabilities of the cardiopulmonary, musculoskeletal, neuromuscular, and integumentary systems. Graduates will also be able to provide health care that produces the best possible health outcomes and patient experiences for a reasonable cost. They must also be experts at advocating for consumers, caregivers and the physical therapy profession.

The graduate-level professional curriculum is nine semesters long. Six semesters will emphasize classroom and laboratory learning and take place on the UWL campus. The final three semesters (36 weeks) will be comprised of internships that take place off-campus and culminate with students returning to campus for a debriefing session. The purpose of the internship is to allow students to be mentored by a master clinician to ensure that didactic knowledge translates into applied skill. Internship sites are selected based upon their learning environment. Clinical instructors are located nationwide. Program graduates must also pass the National Physical Therapy Examination administered by the Federation of State Boards of Physical Therapy to be licensed to practice as a physical therapist.

2020-21 Faculty/Staff

The following is the graduate faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Professor

Thomas Kernozeck, Ph.D

Clinical Professor

Paul Reuteman, PT, DPT, MHS, OCS, LAT

Associate Professor

Patrick Grabowski, PT, Ph.D, OCS

John Greany, PT, Ph.D, FAACVPR

Thomas Greiner, Ph.D

Assistant Professor

Thomas Almonroeder, DPT, Ph.D

Steni Sackiriyas, PT, DSc

Clinical Assistant Professor

Inga Cluppert, PT, DPT

Hanni Cowley, PT, DPT, SCS

Michelle Olson, PT, DPT

Amy Taebeel, PT, DPT, PCS

Research Program Manager

Drew Rutherford, MS

Administrative Support

Pete Amann

Emilee Mielke

Chelsey Nelson

Shauna Salow

Angela Wiste

Graduate degree

- Doctor of Physical Therapy - DPT (p. 59)

Doctor of Physical Therapy

Summary of program

- Cohort size: 45 admitted per year
- Total program credits: 109 credits (with option for four additional elective credits)
- Curriculum length: 34 months
- Didactic study: 86 weeks (1708-1806 contact hours)

- Full time clinical study: 42 weeks (1680 contact hours)
- Terminal internships: 36 weeks

Program requirements

Admission

It is the policy of the University of Wisconsin-La Crosse Physical Therapy Program that all students who desire admission to the program must meet the requirements and complete the admission (<https://www.uwlax.edu/grad/physical-therapy/admission-requirements/>) process by the posted deadlines. Admission to the program is competitive. All applications will be carefully reviewed, adhering to the procedure detailed below. All applicants, regardless of professional or academic background, must meet the following requirements for admission.

- All required application materials must be submitted to PTCAS by the program's deadline.
- A non-refundable program application fee is required of all applicants.
- Complete an online asynchronous interview process. All interviews are conducted using a video-based platform called YouSeeU Bongo where students record their responses to a series of interview questions for review by the program's Admissions Committee.
- All ten prerequisite courses (listed below) must be completed prior to beginning the program. Students may apply with outstanding courses if they demonstrate a plan to complete those courses before matriculating in the program.
- Submission of official Graduate Review Exam (GRE) scores directly from ETS taken within the last five years. GRE minimums: 143 verbal, 143 quantitative, 3.0 written.
- Achieve an undergraduate cumulative grade point average (GPA) of 3.0.
- Achieve a GPA of 3.0 in the prerequisites courses (listed below).
- Completed undergraduate degree by the time of entry into the program. Select students may be able to enter the program prior to receiving their undergraduate degree under dual-degree agreements. (At UWL, such agreements exist with the Departments of Physics and Biology.)
- Completion of at least two 20-hour clinical experiences under the supervision of a licensed PT with clinical letters of recommendation.

Prerequisite requirements

All applicants must successfully complete the following prerequisite courses:

Code	Title	Credits
	General Biology (Lab)	4
	Human Anatomy (Lab)	4
	Human Physiology (Lab)	4
	Chemistry (Lab)	8
	Physics (Lab)	8
	Statistics	3
	Psychology	3
	Psychology or Sociology	3

Admission to the Physical Therapy Program at the University of Wisconsin-La Crosse is based on academic and personal qualifications considered necessary for a successful and competent entry level physical therapist. The UWL Physical Therapy Program grants the

privilege of admission to applicants who have met the criteria set by the Physical Therapy Admissions Committee.

Curriculum

Classroom and laboratory learning (listed in order of enrollment)

109 credits (includes internship credits)

Courses are taken at UWL.

Code	Title	Credits
PTS 509	Human Gross Anatomy	3
PTS 510	Applied Human Gross Anatomy	3
PTS 512	Medical Physiology	4
PTS 520	Introduction to Physical Therapy Practice and Evaluation Techniques	1
PTS 521	Applied Introduction to Physical Therapy Practice and Evaluation Techniques	2
PTS 516	Physiological Regulation of Exertion and Disease	1
PTS 517	Applied Physiological Regulation of Exertion and Disease	1
PTS 527	Clinical Foundations of the Physical Therapy Examination	3
PTS 528	Applied Clinical Foundations of the Physical Therapy Examination	2
PTS 523	Physical Agents	1
PTS 524	Applied Physical Agents	1
PTS 525	Kinesiology and Biomechanics of Normal and Abnormal Movement	2
PTS 526	Applied Biomechanics and Kinesiology of Movement	1
PTS 535	Functional Neuroanatomy	2
PTS 536	Applied Functional Neuroanatomy	1
PTS 651	Fieldwork: Introduction to Clinical Learning	1
PTS 518	Motor Control, Learning and Development	1
PTS 519	Applied Motor Control, Learning, and Development	1
PTS 545	Foundations of Clinical Research	1
PTS 546	Applied Foundations of Clinical Research	1
PTS 611	Pathophysiology	2
PTS 619	Early Intervention and Acute Care Physical Therapy	2
PTS 620	Applied Early Intervention and Acute Care Physical Therapy	1
PTS 627	Therapeutic Exercise and Manual Therapy	1
PTS 628	Applied Therapeutic Exercise and Manual Therapy	1
PTS 625	Physical Therapy Management of the Cardiovascular/Pulmonary System	3
PTS 626	Applied Physical Therapy Management of the Cardiovascular/Pulmonary System	1
PTS 631	Professionalism and the Ethos of Care	2
PTS 542	Research and Applied Statistics	3
PTS 543	Instrumentation for Human Movement	1
PTS 544	Applied Instrumentation for Human Movement	1
PTS 623	Integument System	1
PTS 624	Applied Integument System	1
PTS 728	Musculoskeletal Evaluation and Treatment: Spine	2

PTS 729	Applied Musculoskeletal Evaluation and Treatment: Spine	1
PTS 751	Fieldwork: General Practice	2
PTS 701	Applied Adult Clinical Practice (required in two semesters)	2
PTS 709	Health and Wellness in Physical Therapy Practice	1
PTS 711	Pharmacology	2
PTS 712	Clinical Radiology	1
PTS 715	Musculoskeletal Examination and Intervention: Lower Extremity	2
PTS 716	Applied Musculoskeletal Examination and Interventions: Lower Extremity	1
PTS 717	Clinical Teaching	1
PTS 718	Applied Clinical Teaching	1
PTS 735	Adult Neurorehabilitative Physical Therapy I	2
PTS 736	Applied Adult Neurorehabilitative Physical Therapy I	1
PTS 739	Adult Neurorehabilitative Physical Therapy II	1
PTS 740	Applied Adult Neurorehabilitative Physical Therapy II	1
PTS 741	Evidenced Based Practice in Physical Therapy	2
PTS 742	Research Practicum	1
PTS 710	Applied Health and Wellness in Physical Therapy Practice	1
PTS 737	Musculoskeletal Examination and Intervention: Upper Extremity	2
PTS 738	Applied Musculoskeletal Examination and Interventions: Upper Extremity	1
PTS 730	Physical Therapy for Children	3
PTS 731	Applied Physical Therapy for Children	1
PTS 733	Health Administration	3
PTS 742	Research Practicum	1
PTS 702	Contemporary Practice in Neuromusculoskeletal Physical Therapy	1
Total Credits		90

Internships (taken off campus)

19 credits

Focus of internship may occur in different order per student.

Code	Title	Credits
PTS 851	Clinical Education Experience I	6
PTS 831	Clinical Decision Making	1
PTS 852	Clinical Education Experience II	6
PTS 853	Clinical Education Experience III	6
Total Credits		19

Elective courses (optional)

Code	Title	Credits
PTS 700	Selected Topics in Physical Therapy	1-3
PTS 703	Clinical Anatomy Review	1
PTS 798	Independent Study	1-3
PTS 854	Capstone Project	1

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Sample degree plan

Classroom and laboratory learning

Year 1

Summer (10 weeks)	Credits Fall (14 weeks)	Credits Winter Intersession (2 weeks)	Credits Spring (14 weeks)	Credits
PTS 509	3 PTS 516	1 PTS 651	1 PTS 518	1
PTS 510	3 PTS 517	1	PTS 519	1

PTS 512	4	PTS 523	1	PTS 535	2
PTS 520	1	PTS 524	1	PTS 536	1
PTS 521	2	PTS 525	2	PTS 545	1
		PTS 526	1	PTS 546	1
		PTS 527	3	PTS 619	2
		PTS 528	2	PTS 620	1
		PTS 611	2	PTS 625	3
				PTS 626	1
				PTS 627	1
				PTS 628	1
	13	14	1		16

Year 2

Summer (8 weeks):	Credits	Fall (14 weeks)	Credits	Spring (14 weeks)	Credits
PTS 542	3	PTS 701	1	PTS 701	1
PTS 543	1	PTS 709	1	PTS 702	1
PTS 544	1	PTS 631	2	PTS 710	1
PTS 623	1	PTS 712	1	PTS 711	2
PTS 624	1	PTS 715	2	PTS 730	3
PTS 728	2	PTS 716	1	PTS 731	1
PTS 729	1	PTS 717	1	PTS 733	3
August (4 weeks):		PTS 718	1	PTS 737	2
PTS 751	2	PTS 735	2	PTS 738	1
		PTS 736	1	PTS 739	1
		PTS 741	2	PTS 740	1
		PTS 742	1	PTS 742	1
	12	16			18

Year 3

Summer (12 weeks)	Credits	Fall (14 weeks)	Credits	Spring (14 weeks)	Credits
PTS 851 ¹	6	PTS 831	1	PTS 853 (12 weeks) ¹	6
		PTS 852 (12 weeks) ¹	6		
	6	7			6

Total Credits: 109

¹ Internship I, II, III: Inpatient, Outpatient, and Autonomous Practice. However, focus of internship may occur in different order per student.

HP - Physician Assistant Studies Graduate Program

Physician Assistant Studies Program
4032 Health Science Center; 608.785.8470
Email: paprogram@uwlax.edu

Director: Patricia Campbell
4039 Health Science Center; 608.785.5067

Email: pcampbell@uwlax.edu

www.uwlax.edu/grad/physician-assistant-studies/ (<https://www.uwlax.edu/grad/physician-assistant-studies/>)

Physician assistants (PAs) are health professionals licensed to practice medicine in collaborative/supervisory relationships with physicians.

PAs work in a variety of practice settings including hospitals, clinics, nursing homes, and research centers. PAs are qualified to take medical histories, examine patients, order and administer diagnostic tests, make diagnoses, treat illnesses, and assist in surgery. The care they provide might otherwise be provided by physicians. PAs can provide care as generalists in primary care situations or in subspecialty areas of medicine. Common specialties in which PAs practice include family practice, internal medicine, obstetrics and gynecology, emergency medicine, orthopedics, surgery, and pediatrics.

The PA Program represents a partnership between the University of Wisconsin-La Crosse, Gundersen Medical Foundation, Mayo School of Health Sciences, and Marshfield Clinic Health System. The graduate-level professional curriculum is 24 months in length and involves classes on the campuses of all four partner institutions. The curriculum includes a 12-month pre-clinical year consisting primarily of classroom and laboratory activities. A 12-month clinical year follows and involves rotations in a variety of clinical specialties. These clinical experiences are provided primarily using Gundersen, Mayo, and Marshfield Clinic Health System, and other practice sites.

Upon completion of all degree requirements, students are awarded a Master of Science degree in Physician Assistant Studies (MSPAS) from UWL. The program is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA). To be licensed for practice, graduates must pass the Physician Assistant National Certification Exam (PANCE) administered by the National Commission on Certification of Physician Assistants (NCCPA).

2020-21 Faculty/Staff

The following is the graduate faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Clinical Assistant Professor

Amie Baumgartner, PA-C, MMS-PAS

Sarah Eichenberg, PA-C, MSPAS

Ivy Heims, PA-C, MSPAS

Lisa Iverson-Liermo, PA-C, DrPH

Clinical Associate Professor

Patricia Campbell, PA-C, RD/N, MPAS, MPH

Clinical Professor

Karen Graham, PA-C, PhD, MPAS

Graduate degree

- Physician assistant studies - MS (p. 63)

Physician Assistant Studies - Master of Science

The rigor and intensity of the program and the level of skills and responsibility necessary for practice as a PA require the program to accept candidates who have demonstrated a strong academic background along with excellent interpersonal skills and maturity. Prior health care experience is expected as an indicator of a career commitment suitable to clinical practice. The program's admission process considers each applicant's strengths and selects for admission those best qualified to meet the program's mission. Application to the program is very competitive with a class of 28 students accepted annually.

Program requirements

Admission

Application process

To be considered for admission applicants must have all of the following completed:

1. An application with the Central Application Service for Physician Assistants (CASPA) including three letters of reference. CASPA is a national application service that collects and verifies application materials and calculates various GPAs before forwarding the applicants file to the programs selected by the applicant. For details, visit CASPA (https://help.liaisonedu.com/CASPA_Applicant_Help_Center/).
2. A UWL - Gundersen - Mayo PA Program Supplemental Application.
3. Submission of the program application fee.
4. International applicants have additional requirements. (<http://www.uwlax.edu/Physician-Assistant-Studies-MS/Admission-requirements/>)

Admission requirements

1. An earned bachelor's degree from an accredited institution.
2. A minimum cumulative GPA (as calculated by CASPA) of 3.00 calculated on a 4-point scale.
3. A minimum science (as defined and calculated by CASPA) GPA of 3.00 on a 4-point scale.
4. Submission of Graduate Record Exam (GRE) scores is required with scores forwarded to UWL and the PA program. GRE scores are used as another measure of academic aptitude along with GPA. Thus, there is no minimum required score.

Interview selection factors

An interview is required for admission to the program. Only three factors are used to determine who will receive an invitation for an interview:

1. Cumulative grade point average (GPA), as calculated by CASPA
2. Science GPA, as calculated by CASPA
3. Graduate Record Examination (GRE) scores

For students who are offered and who complete an interview, the following factors are used to determine admission status:

1. Written application including references
2. Background predictive of potential for future practice in the service areas of the program's partner institutions

3. Knowledge of the PA profession and the profession's role in the healthcare system
4. Interpersonal skills
5. Quality and extent of healthcare related experience
6. Rigor of undergraduate education

Program prerequisites

Applicants must have the following coursework completed prior to beginning the PAS program. Students may apply with outstanding prerequisite courses so long as they demonstrate a plan to complete those courses before matriculating in the program.

Biology: At least 11 semester hours of biology in the following areas including at least two lab courses:

- **Anatomy and Physiology:** One semester of human anatomy AND one semester of human physiology; OR a two-semester sequence of combined human anatomy which must be at the 200/sophomore level or above. Though vertebrate and mammalian anatomy and physiology are acceptable, human anatomy and physiology is strongly preferred.
- **Microbiology:** One semester at the 200/sophomore level or above.
- **Chemistry:** A minimum of 11 semester hours of chemistry including the following courses, at least two of which must include a laboratory:
 - *General Chemistry:* One semester of general or introductory chemistry.
 - *Organic Chemistry:* One semester at the 200/sophomore level or above.
 - *Biochemistry:* One semester at the 300/junior level or above. Molecular or cellular at the 300 level or above is an acceptable alternative.

Mathematics: A minimum of two semesters of mathematics including:

- *Pre-calculus/Calculus:* One semester of college algebra with trigonometry or pre-calculus or calculus.
- *Statistics:* One semester of statistics.

Psychology: A minimum of one semester of general, introductory, developmental, or abnormal psychology.

Health Care Experience: Prior direct patient care health experience is expected but not required. Such experience provides evidence of a career commitment to healthcare as a PA. In the program's competitive admission process, the length and depth of healthcare experience is a selection factor.

Technical Standards of Performance: Applicants must also meet the program's technical standards of performance in the areas of observation, communication, motor function, intellectual/conceptual, integrative and quantitative ability, and behavioral and social attributes. The Physician Assistant Program has posted these standards online. Applicants may have accommodations to meet these standards.

Applicable UWL courses:

Code	Title	Credits
Biology		
BIO 312	Human Anatomy and Physiology I (BIO 103 or BIO 105 and CHM 103 are prereqs)	4
BIO 313	Human Anatomy and Physiology II	4
Microbiology		

MIC 230	Fundamentals of Microbiology (BIO 103 or BIO 105 and CHM 103 are prereqs)	4
Chemistry		
CHM 103	General Chemistry I	5
CHM 104	General Chemistry II	5
Organic chemistry		
Select either:		
CHM 300	Fundamental Organic Chemistry	4
OR		
CHM 303 & CHM 304	Organic Chemistry Theory I and Organic Chemistry Theory II	6
Biochemistry		
Select either:		
CHM 325	Fundamental Biochemistry ¹	4
OR		
CHM 417 & CHM 418	Biochemistry I: Macromolecules and Biochemistry II: Metabolism and Genetic Information	7
Mathematics		
MTH 151 or MTH 207	Precalculus Calculus I	4-5
Statistics		
STAT 145 or STAT 405	Elementary Statistics Statistical Methods	4
Psychology		
Select one from:		
PSY 100	General Psychology	3
PSY 212	Lifespan Development	3
PSY 204	Abnormal Psychology	3
PSY 356	Infancy and Childhood	3
PSY 357	Adolescence	3
PSY 358	Adulthood	3

¹ BIO 435 or BIO 315 are acceptable alternatives.

Professional PAS curriculum

The PA Program curriculum includes a total of 108 required credits including 58 credits of pre-clinical year courses, 44 credits of clinical rotations and six credits of capstone seminar in the clinical year. Pre-clinical year courses are only offered once a year and are taken as a cohort. The clinical year curriculum is only offered on a full-time basis with students in clinical sites 40+ hours per week. Thus, the entire curriculum is considered a full-time curriculum. The pre-clinical year curriculum must be successfully completed before a student can advance to the clinical year. Students must then complete clinical rotations including all of the required rotations (PAS 720-732) and supplemental rotations (PAS 756-759). The rotations do not need to be completed in a specific order and sequence is subject to availability of clinical sites. The capstone seminar series must be completed, totaling six credits.

Pre-clinical year courses (listed in order of enrollment)

58 credits

Code	Title	Credits
PAS 509	Human Gross Anatomy	3
PAS 510	Applied Human Gross Anatomy	3

PAS 624	Medical Biochemistry	2
PAS 626	Physiology for the Medical Professional	4
PAS 640	Introduction to the Physician Assistant Profession	1
PAS 680	Pathology	1
PAS 628	Clinical Infectious Disease	2
PAS 630	Medical Pharmacology and Pharmacotherapeutics I	4
PAS 642	Medical History and Physical Exam	3
PAS 643	Applied Medical History and Physical Exam	1
PAS 654	Evidence Based Medicine	2
PAS 681	Medical Diagnostics	1
PAS 682	Internal Medicine: Cardiology	3
PAS 683	Internal Medicine: Gastroenterology and Pulmonology	3
PAS 688	Neuroanatomy	1
PAS 649	Health Care Administration, Law, and Ethics in Medicine	1
PAS 763	Genitourinary Medicine	1
PAS 764	Applied Genitourinary Medicine	1
PAS 631	Medical Pharmacology and Pharmacotherapeutics II	1
PAS 647	Clinical Practice Skills	4
PAS 651	Behavioral Medicine	1
PAS 701	Internal Medicine Subspecialty: Nephrology	1
PAS 703	Internal Medicine Subspecialty: Endocrinology	1
PAS 707	Internal Medicine Subspecialties II: Hematology and Rheumatology	2
PAS 709	Emergency Medicine	1
PAS 711	Clinical Neuroscience	2
PAS 760	Obstetrics - Maternal/Fetal Care	1
PAS 762	Pediatric and Adolescent Medicine	1
PAS 770	Principles of Surgical Medicine I: General Surgery and Anesthesia	1
PAS 771	Principles of Surgical Medicine II: Orthopedics	1
PAS 772	Principles of Surgical Medicine III: Surgical Subspecialties of Otorhinolaryngology and Ophthalmology	1
PAS 773	Dermatology	1
PAS 652	Clinical Procedures	2
Total Credits		58

Clinical rotations

44 credits

Completion of required rotations (PAS 720-732) and supplemental rotations (PAS 756-759) do not need to be completed in a specific order. Sequence is subject to availability of specific sites.

Code	Title	Credits
Required clinical rotations		
PAS 720	Family Medicine Rotation I	4
PAS 722	Internal Medicine Rotation I	4
PAS 724	General Surgery Rotation	4
PAS 726	Women's Health	4
PAS 728	Pediatric Rotation	4
PAS 730	Behavioral Health	4
PAS 732	Emergency Medicine Rotation	4

Supplemental clinical rotations

PAS 756	Supplemental Rotation I	4
PAS 757	Supplemental Rotation II	4
PAS 758	Supplemental Rotation III	4
PAS 759	Supplemental Rotation IV	4
Total Credits		44

Capstone seminar

6 credits

Code	Title	Credits
PAS 790	Capstone Seminar 1	2
PAS 792	Capstone Seminar 2	2
PAS 794	Capstone Seminar 3	2
Total Credits		6

University requirements**University graduate degree requirements**

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
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6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.

7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Sample degree plan

Course schedule by semester:

Pre-Clinical Year

Summer	Credits	Fall	Credits	Winter	Credits	Spring	Credits
PAS 509	3	PAS 628	2	PAS 649	1	PAS 631	1
PAS 510	3	PAS 630	4	PAS 763	1	PAS 647	4
PAS 624	2	PAS 642	3	PAS 764	1	PAS 651	1
PAS 626	4	PAS 643	1			PAS 652	2
PAS 640	1	PAS 654	2			PAS 701	1
PAS 680	1	PAS 681	1			PAS 703	1
		PAS 682	3			PAS 707	2
		PAS 683	3			PAS 709	1
		PAS 688	1			PAS 711	2
						PAS 760	1
						PAS 762	1
						PAS 770	1
						PAS 771	1
						PAS 772	1
						PAS 773	1
	14		20		3		21

Clinical Year

Summer	Credits	Fall	Credits	Winter	Credits
Clinical rotations, three 4-week rotations. Select three of the following:	12	Clinical rotations, four 4-week rotations. Select four of the following:	16	Winter Intersession and Spring Semester	
PAS 720	4	PAS 720	4	Clinical rotations four 4-week rotations. Select four of the following	16
PAS 722	4	PAS 722	4		
PAS 724	4	PAS 724	4		
PAS 726	4	PAS 726	4		
PAS 728	4	PAS 728	4		
PAS 730	4	PAS 730	4		
PAS 732	4	PAS 732	4		
PAS 756	4	PAS 756	4		
PAS 757	4	PAS 757	4		
PAS 758	4	PAS 758	4		
PAS 759	4	PAS 759	4		

PAS 790	2 PAS 792	2 PAS 759	4
		PAS 794	2
14	18	18	

Total Credits: 108

LIB - Information Technology Management Graduate Program

Information Technology Management Program

Director: Elizabeth Humrickhouse

118A Murphy Library; 608.785.8738

Email: ehumrickhouse@uwla.edu

<https://itmanagement.wisconsin.edu/>

<https://www.uwla.edu/grad/information-technology-management/>

The Master of Science in Information Technology Management Program is a fully **online** curriculum consisting of 37 credits (12 three-credit courses and a one-credit capstone preparation course). The degree program is offered jointly by UW-La Crosse, UW-Oshkosh, UW-Parkside, UW-Stevens Point, UW-Stout, and UW-Superior. The program represents a multidisciplinary curriculum that balances real-world applications and practices relevant to the current field and draws primarily from business, information systems, information technology, cybersecurity, data science, communications and project management. Graduates of the program will gain the knowledge and skills required to manage information technology functions across a wide range of industries. The required capstone course, which represents the culminating experience in the program, will provide students with the opportunity to apply skills acquired from coursework through a project-based experience that addresses a problem, need, or concern in an IT setting.

Graduate degree

- Information technology management - MS (p. 66)

Information Technology Management - Master of Science

Program requirements

Admission

To qualify for admission to the Master of Science in Information Technology Management Program, a candidate must have:

1. A baccalaureate degree
2. A 3.0 undergraduate GPA
3. Prerequisite coursework in:
 - a. Programming 1
 - b. Database 1
 - c. Data Communications/Network
4. Two letters of recommendation
5. A resume
6. Up to 1,000 word statement of personal intent describing the candidate's decision to pursue this degree and what the candidate will bring to the information technology field

Provisional admission

Provisional admission will be considered using the following guidelines:

- 2.5 GPA and above at the discretion of the Academic Director and home campus
- Below a 2.5 GPA, a student can remediate by taking two of the following ITM introductory courses and earning a "B" or better in each course (pending approval from the Academic Director)
 - ITM 700 Communications for IT Professionals
 - ITM 705 Leading the IT Function
 - ITM 710 Finance for IT Managers

Curriculum

37 credits

Code	Title	Credits
Required courses:		
ITM 700	Communications for IT Professionals	3
ITM 705	Leading the IT Function	3
ITM 710	Finance for IT Managers	3
ITM 715	Data Science	3
ITM 720	Cloud Computing and Enterprise Applications	3
ITM 725	Enterprise Security	3
ITM 730	Agile and Traditional IT Project Management	3
ITM 735	Business Analysis for Effective IT Organizations	3
ITM 740	IT Operations	3
ITM 745	IT Governance, Ethics, and Regulatory Compliance	3
ITM 750	Emerging Technologies	3
ITM 754	Capstone Preparation	1
ITM 755	Capstone	3
Total Credits		37

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwla.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
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recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.

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7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

MIC - Microbiology Graduate Program

Microbiology Program

Microbiology: Clinical Microbiology Emphasis

Director: Michael Hoffman

3023 Cowley Hall; 608.785.6984

Email: mhoffman@uwlax.edu

www.uwlax.edu/grad/microbiology/ (<https://www.uwlax.edu/grad/microbiology/>)

The Master of Science in Microbiology Program allows students advanced study in multiple areas of microbiology. Students have the option of a general M.S. degree in microbiology or an M.S. degree in microbiology with an emphasis in clinical microbiology.

Admission to the program is based, in part, on undergraduate course work, undergraduate grade point average (GPA), scores on the GRE general exam, letters of recommendation, and a personal letter. Each student will choose a major advisor and an advisory committee during the first semester of residence. This committee will assist the student in drafting the student's plan of study, which will dictate the student's curriculum for the ensuing semesters.

All students complete a capstone experience. Students obtaining the M.S. in microbiology complete a thesis while students in the clinical microbiology emphasis complete either a thesis or seminar paper.

2020-21 Faculty/Staff

The following is the graduate faculty as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Professor

Michael Hoffman

Gregory Sandland

William Schwan

Thomas Volk

Todd Weaver

Associate Professor

Bonnie Bratina

Anne Galbraith

Xinhui Li

Bernadette Taylor

Peter Wilker

Assistant Professor

Daniel Bretl

Paul Schweiger

Lecturer

Marisa Barbknecht

Graduate degrees

- Microbiology - MS (p. 67)
- Microbiology - MS: clinical microbiology emphasis (p. 69)

Microbiology - Master of Science

The Microbiology Master of Science Program is a traditional master's program in which students focus on coursework and producing original research with a faculty mentor. For coursework, students, in consultation with a faculty committee, select and complete 30 credits of classes. For the original research, students work with a faculty mentor in any aspect of microbiology, including environmental microbiology, microbial ecology, food and industrial, bacterial physiology, genetics, immunology, infectious disease microbiology, and more.

Program requirements

Admission

Individuals accepted into the graduate Microbiology Program must have:

1. A minimum course of one introductory microbiology course (MIC 230 Fundamentals of Microbiology or equivalent). Students lacking an introductory microbiology course may be conditionally admitted contingent on remediation of this prerequisite. Remediated prerequisite courses do not count toward the M.S. degree. Additional courses in microbiology and a strong chemistry background, including biochemistry, are highly recommended.
2. An overall undergraduate grade point average of at least 2.85 on a 4.00 scale, an average of at least 3.00 in the last half of all undergraduate work, or an average of at least 3.00 for no less than 12 semester credits of graduate study at another accredited graduate school. Some programs have higher grade point average admission requirements.
3. Completion of the Graduate Record Examination (GRE). Average scores in the 40th percentile or higher are strongly recommended.

A minimum score of 1000 for the total general test scores for verbal and qualitative sections is strongly recommended. A GRE subject test is not required. International students must also complete and submit the TOEFL exam. A score of 550 (or 79 for the IBT TOEFL) is required.

4. Students must complete a University of Wisconsin System online admission application (<https://apply.wisconsin.edu/>). More information about the application process can be found on UWL's graduate admissions page (<https://www.uwlax.edu/admissions/apply/graduate-student/>). Students interested in a graduate assistantship from the Department of Biology must also complete the "Application for Graduate Assistantship" form (<https://www.uwlax.edu/grad/biology/financial-aid/>).
5. Three current letters of recommendation should be sent under separate cover.
6. An application letter which details:
 - a. Academic and professional goals
 - b. Previous relevant experiences
 - c. Reasons for selecting program
 - d. Intent to pursue thesis or non-thesis track or undecided
 - e. Research interest(s) if there is a desire to pursue the thesis track
 - f. Possible faculty mentor(s) for research if pursuing the thesis track and if known

Completed applications must be returned to the Admissions Office by January 10th for US students and January 3rd for international students. Early applications can be considered prior to the deadline. A review committee will assess all submitted materials and a letter of decision will be sent to the applicant. An interview may be required in some instances. Acceptance or non-acceptance is based upon a comprehensive review of all elements of the completed application. Late applications will be considered if enrollment objectives have not been satisfied. Late applications will be considered if enrollment objectives have not been satisfied. Consideration for fellowships is extremely unlikely with late applications.

The graduate Microbiology Program (<https://www.uwlax.edu/Microbiology-MS/Admission-requirements/>) has further application and contact information online.

Curriculum

The Master of Science in Microbiology requires:

1. Completion of a research thesis (Plan A) or seminar paper (Plan B) in an area of microbiology (including an oral defense of the thesis),
2. Passing a written comprehensive exam and an oral comprehensive exam, and
3. Completion of 30 credits of graduate course work with at least 22 credits from the following list. The remaining credits are selected by the student and the advisory committee.

Code	Title	Credits
Plan A - Thesis		
MIC 751	Graduate Seminar ¹	2
MIC 799	Research: Master's Thesis	6
Elective credits from the list below		14
Remaining electives ²		8
Total Credits		30

Code	Title	Credits
Plan B - Seminar Paper		
MIC 751	Graduate Seminar ¹	2
MIC 761	Research and Seminar in Microbiology	2
Electives credits from the list below		18
Remaining electives ²		8
Total Credits		30

¹ Graduate students are expected to attend a graduate seminar during their first four semesters. For the first semester, the student must enroll in BIO 725 (includes seminar) or audit MIC 751. The student must register for MIC 751 for two of their last three semesters, enrolling in the class during those semesters in which they present a seminar.

² The remaining elective credits are selected by the student and the advisory committee.

Code	Title	Credits
Electives for Plan A & B		
MIC 507	Pathogenic Bacteriology	4
MIC 510	Immunology Laboratory	2
MIC 516	Prokaryotic Molecular Genetics	4
MIC 520	Introductory Virology	3
MIC 521	Virology Laboratory	2
MIC 525	Bacterial Physiology	4
MIC 527	Industrial and Fermentation Microbiology	3
MIC 528	Fermentation Microbiology Laboratory	2
MIC 534	Aquatic Microbial Ecology	3
MIC 540	Bioinformatics	2
MIC 542	Plant Microbe Interactions	3
MIC 554	Mechanisms of Microbial Pathogenicity	2
MIC 560	Symposium in Microbiology	1-3
MIC 714	Advanced Genetics	3
MIC 721	Directed Studies	1-2
MIC 730	Biodegradation and Bioremediation of Environmental Contaminants	2
MIC 753	Epidemiology of Infectious Disease	2
MIC 755	Advanced Immunology	2
CLI 540	Clinical Parasitology	1
CLI 584	Laboratory Management	2
BIO 506	Parasitology	4
BIO 512	Mycology	4
BIO 513	Medical Mycology	3
BIO 535	Molecular Biology	3
BIO 536	Molecular Biology Laboratory	1
BIO 549	Advanced Microscopy and Biological Imaging	3
BIO 701	Communication in the Biological Sciences	4
BIO 725	Forum in Biology	1-3
PH 755	Epidemiology and Public Health Issues	3

University requirements

Microbiology graduate student requirements:

All graduate students in microbiology must meet the following requirements:

1. Students must complete and submit a plan of study prior to the midterm of the first semester of residence.
2. Ideally, students should submit a written thesis or seminar paper proposal to the advisory committee prior to the midterm of the second semester of residence. Failure to submit a thesis proposal prior to the fourth semester will result in the student being shifted from thesis track to seminar paper track.
3. Enroll in MIC 751 Graduate Seminar (1 cr.) the first four semesters of residence. Two of the semesters must be taken for one credit each; the other two semesters will be taken on an audit (no credit) basis.
4. Students are encouraged to complete an appropriate graduate course (numbers 500 and above) from outside the department of microbiology. Upon approval of a student's advisory committee, a student may be permitted to take a maximum of 10 graduate credits in other departments.
5. Pass a preliminary oral examination covering the student's area of specialty and advanced course work.
6. Complete at least 15 credits of 700-level course work.
7. Consult this catalog and the department's graduate student guidelines for additional policies pertaining to graduate students in a microbiology program.

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Microbiology: Clinical Microbiology Emphasis - Master of Science

This emphasis is offered by the Department of Biology, the Department of Microbiology, Gundersen Lutheran Medical Center, Marshfield Laboratories/St. Joseph's Hospital/Marshfield Clinic, and the Wisconsin State Laboratory of Hygiene. This program involves on-campus coursework and clinical rotations at Gundersen-Lutheran Medical Center, Marshfield Laboratories/St. Joseph's Hospital/Marshfield Clinic, and the Wisconsin State Laboratory of Hygiene. Students who complete the clinical microbiology emphasis are eligible to secure Specialist Microbiologist (SM-AAM) certification of the American Academy of Microbiology. The combination of classroom education, clinical rotations, and research experience will prepare students for a variety of employment opportunities including:

1. Supervisory positions in medical centers and public health and private reference laboratories
2. Research and development positions in academia, government agencies, or industry
3. Infection control positions in clinical settings
4. Public health and epidemiology
5. Marketing and sales in the pharmaceutical or biotechnology industries, and
6. Teaching at community or technical colleges.

Program requirements

Admission

Individuals accepted into the graduate Microbiology: Clinical Microbiology Emphasis Program must have:

1. A Bachelor of Science degree or equivalent in microbiology, biology, or a related field with competency in microbiology. Graduates with a clinical laboratory science degree from a program accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) are also eligible.
2. Minimum prerequisites for admission to the program are MIC 230 Fundamentals of Microbiology, MIC 310 Immunology, MIC 410/MIC 510 Immunology Laboratory, MIC 407/MIC 507 Pathogenic Bacteriology, or equivalent courses. A strong chemistry background including biochemistry is strongly recommended. Students lacking prerequisites may be conditionally admitted to the emphasis program contingent on remediation of prerequisites. Remediated prerequisite courses do not count toward the M.S. degree.
3. An overall undergraduate grade point average of at least 2.85 on a 4.00 scale, an average of at least 3.00 in the last half of all undergraduate work, or an average of at least 3.00 for no less than 12 semester credits of graduate study at another accredited

graduate school. Some programs have higher grade point average admission requirements.

4. Completion of the Graduate Record Examination (GRE). Average scores in the 40th percentile or higher are strongly recommended. A minimum score of 1000 for the total general test scores for verbal and qualitative sections is strongly recommended. A GRE subject test is not required. International students must also complete and submit the TOEFL exam. A score of 550 (or 79 for the IBT TOEFL) is required.
5. Students must complete a University of Wisconsin System online admission application (<https://apply.wisconsin.edu/>). More information about the application process can be found on UWL's graduate admissions page (<https://www.uwlax.edu/admissions/apply/graduate-student/>). Students interested in a graduate assistantship from the Department of Biology must also complete the "Application for Graduate Assistantship" form (<https://www.uwlax.edu/grad/biology/financial-aid/>).
6. Three current letters of recommendation.
7. An application letter which details:
 - a. Academic and professional goals
 - b. Previous relevant experiences
 - c. Reasons for selecting program
 - d. Intent to pursue thesis or non-thesis track or undecided
 - e. Research interest(s) if pursuing the thesis track
 - f. Possible faculty mentor(s) for research if pursuing the thesis track, if known

Completed applications must be returned to the Admissions Office by January 10th for US students and January 3rd for international students. Early applications can be considered prior to the deadline. A review committee will assess all submitted materials and a letter of decision will be sent to the applicant. An interview may be required in some instances. Acceptance or non-acceptance is based upon a comprehensive review of all elements of the completed application. Late applications will be considered if enrollment objectives have not been satisfied. Consideration for fellowships is extremely unlikely with late applications.

The graduate Microbiology Program (<https://www.uwlax.edu/grad/microbiology/application-process/>) has further application and contact information online.

Curriculum

The Master of Science in Microbiology with a Clinical Microbiology Emphasis requires:

1. Completion of a research thesis (Plan A) or seminar paper (Plan B) in an area of clinical microbiology (including an oral defense of the thesis or seminar paper),
2. Passing a written comprehensive exam and an oral comprehensive exam, and
3. Completion of the core curriculum of a minimum of 32 credits.

Code	Title	Credits
Plan A - Thesis		
MIC 500	Orientation to Clinical Microbiology	2
MIC 554	Mechanisms of Microbial Pathogenicity	2
MIC 751	Graduate Seminar ¹	2
MIC 753	Epidemiology of Infectious Disease	2
MIC 755	Advanced Immunology	2
MIC 770	Clinical Microbiology Practicum I	4

MIC 780	Clinical Microbiology Practicum II	4
MIC 790	Clinical Microbiology Practicum III	2
MIC 799	Research: Master's Thesis	6
Electives		6
Total Credits		32

Code	Title	Credits
Plan B - Seminar Paper		
MIC 500	Orientation to Clinical Microbiology	2
MIC 554	Mechanisms of Microbial Pathogenicity	2
MIC 751	Graduate Seminar ¹	2
MIC 753	Epidemiology of Infectious Disease	2
MIC 755	Advanced Immunology	2
MIC 761	Research and Seminar in Microbiology	2
MIC 770	Clinical Microbiology Practicum I	4
MIC 780	Clinical Microbiology Practicum II	4
MIC 790	Clinical Microbiology Practicum III	2
Minimum electives		10
Total Credits		32

¹ Graduate students are expected to attend a graduate seminar during their first four semesters. For the first semester, the student must enroll in BIO 725 (includes seminar) or audit MIC 751. The student must register for MIC 751 for two of their last three semesters, enrolling in the class during those semesters in which they present a seminar.

Code	Title	Credits
Electives for Plan A & B		
MIC 516	Prokaryotic Molecular Genetics	4
MIC 520	Introductory Virology	3
MIC 521	Virology Laboratory	2
MIC 525	Bacterial Physiology	4
MIC 540	Bioinformatics	2
MIC 560	Symposium in Microbiology	1-3
MIC 714	Advanced Genetics	3
MIC 721	Directed Studies	1-2
CLI 540	Clinical Parasitology	1
CLI 584	Laboratory Management	2
BIO 506	Parasitology	4
BIO 512	Mycology	4
BIO 513	Medical Mycology	3
BIO 535	Molecular Biology	3
BIO 536	Molecular Biology Laboratory	1
BIO 549	Advanced Microscopy and Biological Imaging	3
BIO 701	Communication in the Biological Sciences	4
BIO 725	Forum in Biology	2
PH 755	Epidemiology and Public Health Issues	3

University requirements

Microbiology graduate student requirements:

All graduate students in microbiology must meet the following requirements:

1. Students must complete and submit a plan of study prior to the midterm of the first semester of residence.
2. Ideally, students should submit a written thesis or seminar paper proposal to the advisory committee prior to the midterm of the second semester of residence. Failure to submit a thesis proposal prior to the fourth semester will result in the student being shifted from thesis track to seminar paper track.
3. Enroll in MIC 751 Graduate Seminar (1 cr.) the first four semesters of residence. Two of the semesters must be taken for one credit each; the other two semesters will be taken on an audit (no credit) basis.
4. Students are encouraged to complete an appropriate graduate course (numbers 500 and above) from outside the department of microbiology. Upon approval of a student's advisory committee, a student may be permitted to take a maximum of 10 graduate credits in other departments.
5. Pass a preliminary oral examination covering the student's area of specialty and advanced course work.
6. Complete at least 15 credits of 700-level course work.
7. Consult this catalog and the department's graduate student guidelines for additional policies pertaining to graduate students in a microbiology program.

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

MTH - Applied Statistics Graduate Program

Applied Statistics Program

Director: Melissa Bingham

1032 Cowley; 608.785.6682

Email: mbingham@uwlax.edu

The Master of Science in Applied Statistics Program provides a deeper and broader incorporation of statistics than the undergraduate program, emphasizing its multidisciplinary nature. For example, coursework in the UW-La Crosse program includes data mining and other application-oriented courses. The Applied Statistics Graduate Program involves research experience that allows students to work first hand with regional business partners or other programs on campus. The program aims to foster "life-long learning through collaboration, innovation, and discovery" and to "prepare students to take their place in a constantly changing world community" in concordance with the UW-La Crosse Mission.

Career opportunities and opportunities for promotion in the field of statistics are greater for those with advanced degrees. The Wisconsin Department of Workforce Development lists a master's degree as the typical education level for entry as a statistician. Furthermore, the *U.S. Bureau of Labor Statistics Occupational Outlook Handbook* projects a national 34% growth for the occupation of statistician from 2014-2024, which is much faster than the average growth for most occupations. Growth is expected to result from more widespread use of statistical analysis to make informed business, healthcare, and policy decisions. Demand for statisticians is also expected to increase in the pharmaceutical industry, as an aging U.S. population will encourage companies to develop new treatments and medical technologies.

Therefore, the objectives of the program are to prepare students for employment as an applied statistician in government, industrial, commercial or private sectors, or entrance into a doctoral program in statistics, biostatistics, environmental statistics, or other programs that make heavy use of statistics.

The M.S. in Applied Statistics Program curriculum is comprised of 30 credits. Students entering the M.S. in Applied Statistics Program must have a B.S. or B.A. degree from an accredited institution and must have taken at least three semesters of calculus and at least one semester of probability/statistics.

Graduate degree

- Applied statistics - MS (p. 72)
-

Applied Statistics - Master of Science

Program requirements

Admission

Students seeking admission to the program must have a B.S. or B.A. degree from an accredited institution and must have taken the following prerequisite courses:

1. At least three semesters of calculus (UWL equivalents MTH 207 Calculus I, MTH 208 Calculus II, and MTH 310 Calculus III: Multivariable Calculus)
2. At least one semester of probability/statistics (UWL equivalent STAT 245 Probability and Statistics)

Students who lack any of these prerequisites must take additional courses (not counted for credit toward the M.S. Program) to meet the prerequisites requirement. A cumulative grade point average (GPA) of 2.50/4.00 is required in these courses.

Students who have already completed STAT 441, STAT 442, STAT 445, or STAT 446 at UWL (or equivalent content elsewhere) should consult with the M.S. in Applied Statistics Program (<https://www.uwlax.edu/grad/statistics/>) Director regarding required statistics core course options.

Curriculum

(30 credits)

Required courses (12 credits):

Code	Title	Credits
STAT 541	Mathematical Statistics I	3
STAT 542	Mathematical Statistics II	3
STAT 545	Correlation and Regression Analysis	3
STAT 546	Analysis of Variance and Design of Experiments	3
Total Credits		12

Elective courses (12 credits):

Select 12 credits from the following list. At least nine elective credits must be at the 700-level.

Code	Title	Credits
STAT 543	Categorical Data Analysis	3
STAT 547	Nonparametric Statistics	3
STAT 549	Applied Multivariate Statistics	3
STAT 762	Bayesian Statistics	3
STAT 763	Survey of Modern Statistical Software	3
STAT 764	Statistical Learning	3
STAT 766	Biostatistics	3

Capstone experience (6 credits):

Select one of the following research options:

Code	Title	Credits
Option A - graduate project		
STAT 796	Graduate Project in Applied Statistics (three credits a semester for two semesters)	6
Option B - thesis		

STAT 799	Master's Thesis (three credits a semester for two semesters)	6
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University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

MTH - Data Science Graduate Program

Data Science Program
 Director: Jeffrey Baggett
 1026 Cowley Hall; 608.785.8393
 Email: jbaggett@uwlax.edu

<https://datasciencedegree.wisconsin.edu/>
<https://www.uwlax.edu/grad/data-science/>

The goal of the Master of Science in Data Science Program is to educate data science leaders. The program prepares students at an advanced level to derive insights from real-world datasets, using the latest tools and analytical methods, and to interpret and communicate their findings effectively. The curriculum closely complements what has been identified as typical data science tasks to include, but not limited to, the identification and interpretation of rich data sources, the management of large amounts of data, the merging of data sources, ensuring consistency of datasets, creating visualizations to aid in understanding data, building mathematical models using the data, and presenting and communicating the data insights/findings to diverse expert and non-expert audiences.

The program features a multidisciplinary curriculum that draws primarily from computer science, math and statistics, management, and communication and represents a fixed curriculum comprising 36 credits (12 three-credit courses) to include a required capstone course which represents the culminating experience for students. The online M.S. in Data Science Program will focus primarily on adult and non-traditional students who hold an undergraduate degree and have the desire to continue their education towards a graduate degree, primarily to expand knowledge and specialized skills in this area and for career advancement.

A collaborative program

The M.S. in Data Science is a fully **online** 36-credit (12 three-credit courses including a capstone course) graduate program offered jointly by UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, and UW-Superior. The program follows a home-campus model. Candidates apply to one of the six partner institutions. Upon a student's admittance, that institution becomes the student's administrative home for the degree through graduation.

Graduate degree

- Data science - MS (p. 73)

Data Science - Master of Science

Program requirements

Admission

To be admitted to this program, candidates must meet the following requirements:

1. Admitted to UWL graduate school (<https://www.uwlax.edu/admissions/learn-how-to-apply/graduate-student/>)
2. Completed the following three courses:
 - a. Elementary Statistics
 - b. Introduction to Programming
 - c. Introduction to Databases

Curriculum

36 credits

Code	Title	Credits
Required courses:		
DS 700	Foundations of Data Science	3

DS 705	Statistical Methods	3
DS 710	Programming for Data Science	3
DS 715	Data Warehousing	3
DS 730	Big Data: High Performance Computing	3
DS 735	Communicating about Data	3
DS 740	Data Mining and Machine Learning	3
DS 745	Visualization and Unstructured Data Analysis	3
DS 760	Ethics of Data Science	3
DS 775	Prescriptive Analytics	3
DS 780	Data Science and Strategic Decision Making	3
DS 785	Capstone	3
Total Credits		36

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.

8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

PSY - School Psychology Program - Master of Science in Education

*Education Specialist and Master of Science in Education
School Psychology Program*

*Director: Robert J. Dixon
349A Graff Main Hall; 608.785.6893
Email: rdixon@uwlax.edu*

www.uwlax.edu/grad/school-psychology/ (<https://www.uwlax.edu/grad/school-psychology/>)

The UW-La Crosse School Psychology Program offers a Master of Science in Education en route to an Education Specialist degree. The combined degrees require two years of full-time study, one summer of study, a one-year internship during the third year, completion of a capstone project, and the passing of either the national school psychology test or the UWL comprehensive examinations. Successful completion of all program requirements for the 71-73 semester credits prepares candidates for licensure as a School Psychologist in Wisconsin. Candidates interested in becoming licensed in other states are encouraged to check the respective state's licensing rules. Students earn a 31-credit Master of Science in Education (p. 75) degree before completing the remaining Education Specialist (p. 77) degree requirements.

The UW-La Crosse School Psychology Program is part of the Department of Psychology and the College of Arts, Social Sciences, and Humanities. The program is approved by the Wisconsin Department of Public Instruction (DPI), and has full approval from the National Association of School Psychologists (NASP). Upon completion of all program requirements, students are eligible for certification as a Nationally Certified School Psychologist (NCSP). Graduates of the program are employed in public schools or in educational agencies that serve public schools.

The School Psychology Program prepares graduate students for licensure as school psychologists through academic course work, 700 hours of supervised school practica, and a one-year, 1,200 hour school internship. The school psychology knowledge base includes areas of professional school psychology, educational psychology, psychological foundations, educational foundations, and mental health.

The School Psychology Program adheres to state and national training standards for school psychology. Graduate students must develop professional competencies for each of the 10 DPI/NASP training standards: data-based decision making and accountability; consultation and collaboration; interventions and instructions support to develop social academic skills; interventions and mental health services to develop social and life services; diversity in development and learning; school-wide practices to promote learning; preventative and responsive services; family-school collaboration services; research and program evaluation; and legal, ethical, and professional practice. Over the course of their UWL training, graduate students will maintain an evolving portfolio that documents professional growth and achieved competence in each of the 10 areas. In addition, students will be evaluated each semester in professional behavior competencies that reflect dispositions in the field.

The emphasis of this program is to train school psychologists who are effective teacher, parent, and school consultants by providing extensive hands-on experiences in a mentor relationship. The program also emphasizes a pupil services model that addresses the educational and mental health needs of all children, from early childhood through high school.

Graduate students are placed in local schools as early and as intensively as possible. During their second, third, and fourth semesters, students spend two days per week working in local schools under the direct supervision of experienced school psychologists. During these school practica, students develop professional skills in assessment, consultation, intervention, counseling, case management, and in each of the NASP standards. Many of the core courses require projects that are completed in the schools during practica.

Program Admissions

An information and application packet can be obtained online through the School Psychology Program or by writing the School Psychology Program Director, Department of Psychology, University of Wisconsin-La Crosse, 1725 State Street, La Crosse, WI 54601, or by sending an e-mail to schoolpsych@uwlax.edu. In addition to meeting all the requirements established for general graduate admissions, students must also meet School Psychology Program and School of Education¹ requirements before admission to the program. These additional requirements include: three letters of recommendation; a writing sample; résumé of educational and work experience; and a statement of purpose. Students are also expected to participate in an on campus interview as a component of the selection process.

¹ The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC, and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s). Admission decisions by programs are contingent upon CBC clearance by the UWL Office of Field Experience or designated graduate program representative.

2020-21 Faculty/Staff

The following is the graduate faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Professor

Ryan McKelley (<http://www.uwlax.edu/profile/rmckelley/>), Ph.D.

Jocelyn H. Newton (<http://www.uwlax.edu/profile/jnewton/>), Ph.D., NCSP

Associate Professor

Robert J. Dixon (<http://www.uwlax.edu/profile/rdixon/>), Ph.D., NCSP, LP

Assistant Professor

Daniel M. Hyson (<http://www.uwlax.edu/profile/dhyson/>), Ph.D., NCSP

Suthakaran Veerasamy (<http://www.uwlax.edu/profile/sveerasamy/>), Ph.D.

Administrative Support

Taylor Wirkus (<https://www.uwlax.edu/profile/twirkus2/>)

Graduate degree

- School psychology - MSED (p. 75)

Master of Science in Education in School Psychology

The emphasis of the School Psychology Program is to prepare school psychologists who are effective teacher, parent, and school consultants. Along with consultation, graduate students are trained to provide effective interventions. The program also emphasizes a pupil services model which addresses the educational and mental health needs of all children, from early childhood through high school. The school psychology knowledge base includes areas of professional school psychology, educational psychology, psychological foundations, educational foundations, and mental health. To provide psychological services in educational settings, graduates of the School Psychology Program must also have considerable knowledge of curriculum, special education, and pupil services.

The Master of Science in Education in school psychology is awarded after the first year of study. To practice as a licensed school psychologist, students must go on to complete the Educational Specialist degree in school psychology. (p. 77) UWL offers both degrees through the School Psychology Program.

Program requirements

Complete the following requirements for a Master of Science in Education degree in school psychology:

1. Complete 31 graduate credits.
2. A minimum of 15 of the 31 credits need to be completed at the 700-level.
3. Complete the following courses:

Code	Title	Credits
PSY 759	Assessment of Personality and Emotional/Behavioral Disorders	3
SPY 771	Application of Multicultural Psychology	3
SPE 501	Introduction to Exceptional Individuals	3
SPY 700	School Psychology: Role and Function	3
SPY 757	Psychoeducational Assessment I	3
SPY 775	Behavioral Assessment and Management	3
SPY 751	School-wide Practices for Academics, Behavior, and Mental Health in a MTSS Model	3
SPY 761	Orientation to Supervised Practicum in School Psychology	1
SPY 752	Academic, Behavioral, and Mental Health Interventions	3
SPY 762	Supervised Practicum in School Psychology I	3
SPY 776	Psychological Consultation and Collaboration	3
Total Credits		31

Students earn a 31-credit Master of Science in Education before completing the remaining Education Specialist (p. 77) degree requirements.

To practice as a licensed school psychologist, students must go on to complete the Educational Specialist degree in school psychology. (p. 77) UWL offers both degrees through the School Psychology Program.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
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PSY - School Psychology Program - Educational Specialist

*Education Specialist and Master of Science in Education
School Psychology Program*

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The UW-La Crosse School Psychology Program is part of the Department of Psychology and the College of Arts, Social Sciences, and Humanities. The program is approved by the Wisconsin Department of Public Instruction (DPI), and has full approval from the National Association of School Psychologists (NASP). Upon completion of all program requirements, students are eligible for certification as a Nationally Certified School Psychologist (NCSP). Graduates of the program are employed in public schools or in educational agencies that serve public schools.

The School Psychology Program prepares graduate students for licensure as school psychologists through academic course work, 700 hours of supervised school practica, and a one-year, 1,200 hour school internship. The school psychology knowledge base includes areas of professional school psychology, educational psychology, psychological foundations, educational foundations, and mental health.

The School Psychology Program adheres to state and national training standards for school psychology. Graduate students must develop professional competencies for each of the 10 DPI/NASP training standards: data-based decision making and accountability; consultation and collaboration; interventions and instructions support to develop social academic skills; interventions and mental health services to develop social and life services; diversity in development and learning; school-wide practices to promote learning; preventative and responsive services; family-school collaboration services; research and program evaluation; and legal, ethical, and professional practice. Over the course of their UWL training, graduate students will maintain an evolving portfolio that documents professional growth and achieved competence in each of the 10 areas. In addition, students will be evaluated each semester in professional behavior competencies that reflect dispositions in the field.

The emphasis of this program is to train school psychologists who are effective teacher, parent, and school consultants by providing extensive hands-on experiences in a mentor relationship. The program also emphasizes a pupil services model that addresses the educational and

mental health needs of all children, from early childhood through high school.

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¹ The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC, and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s). Admission decisions by programs are contingent upon CBC clearance by the UWL Office of Field Experience or designated graduate program representative.

2020-21 Faculty/Staff

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Administrative Support

Taylor Wirkus (<https://www.uwlax.edu/profile/twirkus2/>)

Graduate degree

- Educational Specialist in school psychology - Ed.S. (p. 77)

Educational Specialist in School Psychology

The emphasis of this program is to prepare school psychologists who are effective teacher, parent, and school consultants. Along with consultation, graduate students are trained to provide effective interventions. The program also emphasizes a pupil services model which addresses the educational and mental health needs of all children, from early childhood through high school. The school psychology knowledge base includes areas of professional school psychology, educational psychology, psychological foundations, educational foundations, and mental health. To provide psychological services in educational settings, graduates of the School Psychology Program must also have considerable knowledge of curriculum, special education, and pupil services.

Another unique aspect of the UWL School Psychology Program is that graduate students are placed in local schools as early and as intensively as possible. During their second, third, and fourth semesters, students are at local school practicum sites two days per week. From the beginning of practica experiences, students are involved in actual casework. Over the next three semesters, they progress to near independent functioning in all school psychological practices. At practicum placements, students are under the direct supervision of experienced school psychologists. University practicum supervisors also observe practicum students at their school practicum sites. On campus, faculty and students meet individually and in small groups to review cases and activities students are working on at their practicum sites. During these school practica, students develop professional skills in assessment, consultation, intervention, counseling, and case management. Many of the core courses require projects which are completed in the schools during practica. By the end of these practica, students will have more than 700 hours of school experience. After completing all coursework at the university, students complete a 1200 hour internship at sites of their choosing.

Since the inception of the School Psychology Program, 100% of the students who have completed the program requirements have secured employment as school psychologists. Some graduates also go on to positions in educational administration or related fields.

To practice as a licensed school psychologist, students must complete the Educational Specialist degree, which includes completing the Master of Science in Education in school psychology (p. 75) degree first. UWL offers both degrees through the School Psychology Program.

Program requirements

Complete the following requirements for an Education Specialist degree in school psychology:

1. Complete a minimum of 60 graduate credits (includes capstone project and credits completed for the Master of Science in Education degree), with at least two thirds of these at the 700/800-level.

2. Complete capstone project requirements within seven years of beginning the program.
3. Obtain a passing score (set by the National Association of School Psychology for NCSP certification) on the National School Psychology Examination or a passing score on the comprehensive examinations written by UWL psychology and school psychology faculty. The UWL written comprehensive examinations cover the same areas assessed by the National School Psychology Examination. The areas are: data-based decision making, research-based academic practices, research-based behavioral and mental health practices, consultation and collaboration, applied psychological foundations, and ethical, legal, and professional foundations. UWL comprehensive examinations are offered during the spring semester of each year. Students must pass either the National School Psychology Examination or the UWL comprehensive exams before being allowed to begin an internship, to obtain a school psychology position, or to apply for an initial school psychology licensure.
4. Complete a professional portfolio that demonstrates achieved competence for each of the 10 NASP training standards.

Curriculum

Psychological foundations (6 credits)

Students are expected to enter the graduate school psychology program with a good understanding of psychological principles. This can be achieved through:

1. Completing an undergraduate psychology major,
2. Completing psychology content classes through elective course offerings, or
3. Remedial activities within specific graduate school psychology courses.

Regardless of background, students are required to have an undergraduate statistics course.

Code	Title	Credits
PSY 717	Behavior Disorders in Children	3
PSY 725	Research and Program Evaluation in Schools	3
or electives approved by the school psychology program director		
Total Credits		6

Educational foundations (6 credits)

Complete one course in each of the following areas. Course work completed at the undergraduate level need not be repeated. At least six credits must be completed at the graduate level.

Code	Title	Credits
EFN 705	Human Relations in School and Society	3
SPE 715	Special Education and the Law	3
Or electives approved by the school psychology program director		
Total Credits		6

Core professional training (24 credits)

Complete each of the following courses.

Code	Title	Credits
PSY 756	Early Childhood Assessment ¹	3
SPY 758	Psychoeducational Assessment II	3

SPY 763	Supervised Practicum in School Psychology II ¹	3
SPY 764	Supervised Practicum in School Psychology III ¹	3
SPY 772	Counseling and Therapy Methods	3
SPY 773	Advanced Counseling and Therapy Methods	3
SPY 797	Internship in School Psychology	6
Total Credits		24

¹ Has course fee of at least \$25.00.

Capstone project requirements (4-6 credits)

Code	Title	Credits
Select one of the following options:		
Option 1 (minimum six credits):		
SPY 800	Specialist Thesis Proposal	
SPY 801	Specialist Thesis	
Option 2 (minimum four credits):		
SPY 802	Research/Specialist Project	
SPY 803	Case Conceptualization Project	
Total Credits:		4-6

Licensure, practicum, internship, and capstone project requirements

Initial Educator Licensure in Wisconsin is granted after completion of all Education Specialist (EDS) degree requirements, excepting the school psychology internship and the capstone project. Students are eligible for Professional Educator Licensure in Wisconsin upon completion of the EDS degree, which includes the internship and capstone project. Students who complete only the master's degree are not eligible for licensure as a school psychologist.

Students must complete two semesters of a supervised school psychology practicum at the Ed.S. level. During practicum experiences students develop school psychology professional knowledge, skills, and behavior. Core professional skills, as well as professional behavior, are critical to effective school psychology functioning. Thus, only students who have successfully completed all prerequisite course work (no incompletes) are allowed to enroll for practica. In addition, appropriate professional behavior and personal effectiveness are required for continued enrollment in practica and the program.

Internships must be in a school setting, total 1,200 hours, and be supervised by a certified school psychologist and a UW-L school psychology instructor. A site visit from the university supervisor is required each semester. All interns must pay all actual costs associated with each semester's site visit, including travel, lodging, and meals.

To complete the capstone project requirements, students complete either

1. A research/specialist project and a case conceptualization project or
2. A thesis proposal and thesis.

While students are expected to complete this requirement prior to internship, if a student has not successfully completed all elements of the capstone, the student must register for graduate credits until the project components are successfully completed.

For additional School Psychology Program policies, students should refer to the "School Psychology Graduate Student Handbook" available in the School Psychology Office, 341 Graff Main Hall.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UW-L graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
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8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

REC - Recreation Management Graduate Program

Recreation Management Graduate Program

Director: Kate Evans

2052 Health Science Center; 608.785.8210

Email: kevans@uwlax.edu

www.uwlax.edu/grad/recreation-management/ (<https://www.uwlax.edu/grad/recreation-management/>)

The Master of Science in Recreation Management Program prepares students for positions in public, private, and commercial recreation agencies. The curriculum consists of learning experiences critical for assuming high-level management positions in the leisure service profession.

This program is designed to provide students with individualized continuing education to develop competencies specifically related to recreation career development and professional growth. The emphasis is on individualizing the student's program.

Graduates are prepared to:

- Plan, develop, and manage recreation programs in public and private agencies, commercial enterprises, and tourism business
- Use diverse community, natural, institutional, and human service resources to enhance programs
- Apply common and innovative management techniques for budgets, service pricing, cost analysis, business feasibility, market analysis, and promotions
- Use leadership strategies to strengthen leisure experiences for all, including those with special needs
- Apply evaluation, survey, and research methods to ensure continued improvement in leisure services
- Apply management techniques for recruitment, selection, training, and evaluation of staff and volunteers

Graduates are employed in:

- Local recreation and park agencies; federal natural resource agencies
- Resorts, cruise ships, ski resorts, private campgrounds, and hospitality and travel industries
- Private corporations and tourism agencies
- Health clubs and recreational fitness centers
- Youth agencies
- Boy Scouts, Girl Scouts, YM/YWCA
- Condominium developments, convention/visitor bureaus, ice arenas, marinas, golf courses, and theme parks

The Master of Science is also available in therapeutic recreation (p. 82).

2020-21 Faculty/Staff

The following is the graduate faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Professor

Laurie Harmon, Ph.D., Department Chair

Associate Professor

Kate Evans, Ph.D.

Assistant Professor

Namyun Kil, Ph.D.

Brian Kumm-Schaley, Ph.D.

Dan Plunkett, Ph.D.

Jennifer Taylor, Ph.D.

Senior Lecturer

Daniel Widuch, M.S.Ed.

Lecturer

Tara DeLong, M.S.

W. Tommy Means, M.S.

Lisa Savarese, M.S.

Associate Lecturer

Lindsey Kirschbaum, M.S.

Administrative Support

Janet Craig, Academic Department Associate

Graduate degree

- Recreation management - MS (p. 79)

Recreation Management - Master of Science

The Master of Science in Recreation Management is a multidisciplinary program of advanced study designed to prepare graduates for careers in the public, private non-profit, and the commercial sectors of the recreation profession. With three curricular options (thesis, graduate project, or internship), the program serves both students with extensive recreation backgrounds and students who are looking to a masters program as their gateway into the recreation field.

Please visit the website that introduces you to the graduate Recreation Management Program, our graduate faculty, and the opportunities at the University of Wisconsin-La Crosse.

www.uwlax.edu/grad/recreation-management/ (<https://www.uwlax.edu/grad/recreation-management/>)

For more information please contact:

Kate Evans, Ph.D.
kevans@uwlax.edu
608.785.8210

Thank you for your interest.

"My graduate studies at UWL were exactly what I was looking for - a supportive and encouraging learning environment with enough flexibility to allow me to direct my own studies. The faculty were outstanding, providing me with the right tools and guidance to accomplish everything I desired."

Michael Maningas, 2000 Graduate

Program requirements

Admission

The program welcomes students without an undergraduate degree in recreation, but some prerequisite courses may be required. Students may take deficiency courses prior to beginning the graduate program

or they may begin the program and take the courses within the first two semesters of their graduate program.

Prerequisite courses include:

Code	Title	Credits
REC 301	Leadership and Programming in Recreation	3
or demonstrated experience in recreation programming		
STAT 145	Elementary Statistics	4
Total Credits		7

If all of the above courses have not been previously taken, the recreation graduate program director will determine program deficiencies on an individual basis. The review will be based on previously taken courses as well as prior work experience. The graduate program director also will determine which deficiency courses need to be taken for credit (auditing of courses might also be recommended).

Curriculum

(30 credits)

Required courses (12 credits)

Code	Title	Credits
REC 520	Revenue Management in Leisure Enterprises	3
REC 701	Philosophical Foundations of Leisure, Play and Recreation ¹	3
REC 731	Data Evaluation and Management in Parks and Recreation ¹	3
REC 735	Management Topics in Recreation and Leisure Services ¹	3
Total Credits		12

¹ Online course.

Capstone (6 credits)

Select one of the options below:

Code	Title	Credits
Option A - thesis		
REC 799	Research: Master's Thesis	
Option B - graduate project		
REC 761	Graduate Project in Recreation	
Option C - internship		
REC 700	Internship in Guided Learning	
Total Credits		6

Elective courses (12 credits)

Select 12 credits from the lists below:

Code	Title	Credits
On-campus electives		
REC 500	Planning for Park and Recreation Facilities	
REC 502	Risk Management in Leisure Service Organizations	
REC 504	Budgeting in the Recreation Enterprise	
REC 505	Sustainable Tourism Development	
REC 515	Camp Administration	
REC 545	Meetings, Conventions, and Event Planning	
REC 795	Independent Study in Recreation	

REC 797 Special Projects in Recreation Management

Online electives

REC 732	Human Development and Group Dynamics
REC 733	Diversity and Social Justice in Recreation Management
REC 734	Experience Management
REC 736	Collaborative Approaches to Recreation and Leisure Service Delivery
REC 737	Contemporary Issues in Recreation Management
REC 738	Capstone Seminar in Recreation Management

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
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8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

REC - Recreation Management: Professional Development Graduate Program

Recreation Management: Professional Development Program

Director: Kate Evans

2052 Health Science Center; 608.785.8210

Email: kevans@uwlax.edu

www.uwlax.edu/conted/rec-management-ms/ (<https://www.uwlax.edu/conted/rec-management-ms/>)

The Recreation Management: Professional Development Emphasis Program is a fully **online** master's program designed for recreation professionals who are currently working in the field. The program is focused on advanced management skills that will allow working professionals the opportunity to build on a base of recreation education and/or experience to advance in their knowledge, skill sets, and careers.

2020-21 Faculty/Staff

The following is the graduate faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Professor

Laurie Harmon, Ph.D., Department Chair

Associate Professor

Kate Evans, Ph.D.

Assistant Professor

Namyun Kil, Ph.D.

Brian Kumm-Schaley, Ph.D.

Dan Plunkett, Ph.D.

Jennifer Taylor, Ph.D.

Senior Lecturer

Daniel Widuch, M.S.Ed.

Lecturer

Tara DeLong, M.S.

W. Tommy Means, M.S.

Lisa Savarese, M.S.

Associate Lecturer

Lindsey Kirschbaum, M.S.

Administrative Support

Janet Craig, Academic Department Associate

Graduate degree

- Recreation management - MS: professional development emphasis (p. 81)

Recreation Management: Professional Development Emphasis - Master of Science

Program requirements

Admission

Admission to the university:

- To qualify for unconditional admission (i.e., not on probation) to graduate study, a student must have:
 - A baccalaureate degree from an accredited institution
 - An overall undergraduate grade point average of at least 2.85 on a 4.00 scale, or
 - (b) An average of at least 3.00 in the last half of all undergraduate work, or
 - (c) An average of at least 3.00 for no less than 12 semester credits of graduate study at another accredited graduate school.

Admission to the program:

The graduate Recreation Management Program follows a comprehensive admissions review process in selecting students for admission to the online Professional Development Emphasis. Although our program is designed for working recreation professionals, other students will be considered for admission dependent upon their application materials and available space in the program. The factors that will be considered in the review of an application include:

- **Primary factors:**
 - A baccalaureate degree in recreation or leisure from an accredited institution; OR
 - A baccalaureate degree from an accredited institution and a minimum of one year of experience working in the recreation or leisure field.
- **Secondary factors:**
 - A minimum of one year of full-time experience working in the recreation or leisure field
 - Staff supervisory experience
- **Required documents:**
 - Completed application
 - Official transcripts
 - Resume
 - Letters of recommendation: Three letters of recommendation reflective of the applicant's professional and/or academic experiences are required
 - Personal statement: A personal statement describing the applicant's belief about the importance of recreation, personal and professional experiences and passions related to recreation, and the reasons the applicant would like to pursue a graduate degree in recreation. The applicant should also include for consideration any additional information that speaks to the applicant's ability to contribute to the program or UWL.

Graduation requirements

A total of 30 credits of graduate level courses must be completed with a "B" or better (3.0/4.0) in each course.

Curriculum

(30 credits)

Code	Title	Credits
REC 701	Philosophical Foundations of Leisure, Play and Recreation	3
REC 520	Revenue Management in Leisure Enterprises	3
REC 736	Collaborative Approaches to Recreation and Leisure Service Delivery	3
REC 735	Management Topics in Recreation and Leisure Services	3
REC 731	Data Evaluation and Management in Parks and Recreation	3
REC 733	Diversity and Social Justice in Recreation Management	3
REC 732	Human Development and Group Dynamics	3
REC 734	Experience Management	3
REC 737	Contemporary Issues in Recreation Management	3
REC 738	Capstone Seminar in Recreation Management	3
Total Credits		30

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the

Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.

6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Sample degree plan

Course schedule by semester:

Year 1			
Fall	Credits Spring	Credits Summer	Credits
REC 701	3 REC 520	3 REC 733	3
REC 731	3 REC 732	3 REC 734	3
	6	6	6
Year 2			
Fall	Credits Spring	Credits	
REC 735	1-3 REC 737	1-3	
REC 736	3 REC 738	3	
	6	6	

Total Credits: 30

REC - Therapeutic Recreation Graduate Program

Therapeutic Recreation Graduate Program

Director: Kate Evans

2052 Health Science Center; 608.785.8210

Email: kevans@uwlax.edu

www.uwlax.edu/grad/therapeutic-recreation/ (<https://www.uwlax.edu/grad/therapeutic-recreation/>)

The Master of Science in Therapeutic Recreation Program prepares students for certification as Therapeutic Recreation Specialists. Students learn to develop and implement treatment, leisure education, and recreation programs for individuals with special needs.

Graduates are prepared to:

- Assess the need for therapeutic recreation intervention
- Plan and evaluation individual and group treatment, leisure education and recreation participation programs
- Supervise interdisciplinary teams and human service providers
- Organize and manage services
- Direct outreach, advocacy, and public relations activities
- Assist individuals in the development of life-long leisure independence
- Address therapeutic recreation professionalization issues
- Take the national examination to become a Certified Therapeutic Recreation Specialist
- Use advanced knowledge as a clinical administrator or consultant

Graduates are employed in:

- Hospitals and physical rehabilitation facilities
- County, state, and national mental health treatment centers
- Residential settings
- Long-term care or nursing home facilities
- Community-based centers and human service agencies
- Recreation agencies, including national associations for disabled sport competitors (i.e., Special Olympics)
- Human service areas needing therapeutic recreation consultants

The Master of Science is also available in recreation management (p. 78).

2020-21 Faculty/Staff

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Associate Lecturer

Lindsey Kirschbaum, Ph.D.

Administrative Support

Janet Craig, Academic Department Associate

Graduate degree

- Therapeutic recreation - MS (p. 83)
-

Therapeutic Recreation - Master of Science

The Master of Science in Therapeutic Recreation is a comprehensive program of study designed to prepare graduates for careers in the multifaceted field of therapeutic recreation. Our dual track curriculum serves two kinds of the students, the certified therapeutic recreation specialist (CTRS) seeking advanced training in therapeutic recreation as well as the student who wants to enter the therapeutic recreation profession by completing his or her masters degree. All students completing a masters at UWL meet all criteria for sitting for the national therapeutic recreation examination.

Please visit the website that introduces you to the graduate Therapeutic Recreation Program, our graduate faculty, and the opportunities at the University of Wisconsin-La Crosse.

www.uwlax.edu/grad/therapeutic-recreation/ (<https://www.uwlax.edu/grad/therapeutic-recreation/>)

For more information please contact:

Kate Evans, Ph.D.,
kevans@uwlax.edu
608.785.8210

Thank you for your interest.

"The program is excellent and prepares you for working in any population as a Therapeutic Recreation Specialist. The professors are very knowledgeable and often went above and beyond to help me."

Angelica Granger, class of 2009

Program requirements

Admission

Students without a previous background in therapeutic recreation, as well as those who are certification eligible as a Certified Therapeutic Recreation Specialist by the National Council for Therapeutic Recreation Certification, will be admitted into the program after fulfilling university graduate school admission requirements. **Students without backgrounds in therapeutic recreation will only be admitted in the Fall semester.** Deficiencies will be determined based on the student's educational background and work experience.

There are minimum undergraduate prerequisite course and competency requirements for admission to the Master of Science degree program in therapeutic recreation.

Prerequisite courses (or equivalent knowledge):

Code	Title	Credits
ESS 205	Human Anatomy and Physiology for Exercise Science I	3
PSY 204	Abnormal Psychology	3
PSY 212	Lifespan Development	3
RTH 250	Introduction to Therapeutic Recreation	3
STAT 145	Elementary Statistics	4

The above courses may be taken at the University of Wisconsin-La Crosse during the first two semesters of the graduate program (except for RTH 250 which must be completed in the first semester of the graduate program).

Prerequisite competency:

Knowledge of and experience with a disability group in a therapeutic recreation setting (minimum 50 documented hours of acceptable experience).

**National Council for Therapeutic Recreation
Certification exam**

To become eligible to sit for the National Council for Therapeutic Recreation Certification (<http://nctrc.org/>) (NCTRC) exam through the professional academic path, a total of 18 semester units or 27 quarter units of supportive course work must be successfully completed with at least three units in the content of abnormal psychology, three units in the content of anatomy and physiology, and three units in the content area of human growth and development across the lifespan. The remaining semester units or quarter units of course work must be fulfilled in the content of "human services" as defined by NCTRC (human services is defined to include courses supportive to the practice of therapeutic recreation such as: psychology, sociology, related biological/physical sciences, adaptive physical education, special education, education, ethics and other disciplines of study supportive to the practice of therapeutic recreation). Students must fulfill the most current NCTRC requirements for certification eligibility. Fulfilling the most recent NCTRC requirements for eligibility is the responsibility of the student.

Curriculum

(30-36 credits)

Upon admission, the student will be classified into one of two groups based upon previous academic background, certification status, and professional experience in the field of therapeutic recreation. The student will be classified either as a

- Student without a previous background in therapeutic recreation or
- Student with a previous background (certification eligible) in therapeutic recreation.

Program of study for a student with a background (certification eligible) in therapeutic recreation:

The program of study involves a minimum of 30 credits. A program of study includes the required courses, one of two capstone experiences, and electives. The program of study will be jointly developed by the student and the Therapeutic Recreation Program Director.

Required courses (18 credits)

Code	Title	Credits
RTH 593	Therapeutic Recreation Trends and Issues	3
RTH 701	Philosophical Foundations of Leisure, Play and Recreation	3
RTH 720	Research Methods for Recreation, Parks, and Leisure	3
RTH 730	Advanced Clinical Aspects/Therapeutic Recreation	3
RTH 740	Evidence-Based Practice in Therapeutic Recreation	3
RTH 750	Authentic Leadership and Clinical Supervision in Therapeutic Recreation	3
Total Credits		18

Capstone Experience

Students with a therapeutic recreation background must select one of two research options as the capstone experience to their graduate program. The options are:

Code	Title	Credits
Option A - thesis		
REC 799	Research: Master's Thesis	6
Option B - graduate project		
REC 761	Graduate Project in Recreation	3-6

Elective courses

Additional elective courses may be required to fulfill the minimum number of credits (30) to graduate. The elective course(s) will be determined jointly by the student and the Therapeutic Recreation Program Director.

Program of study for a student without a previous background in therapeutic recreation:
FALL SEMESTER ADMISSION ONLY

This program of study requires 36 credits. The program of study includes the required graduate courses and internship capstone experience. Additional credit(s) may be required to fulfill the sitting requirements of the NCTRC. A program of study will be developed by the student and the Therapeutic Recreation Program Director.

Required courses (36 credits)

Code	Title	Credits
RTH 556	Program Design and Administration of Therapeutic Recreation	3
RTH 570	Facilitation Techniques in Therapeutic Recreation	3
RTH 576	Assessment and Treatment Planning in Therapeutic Recreation	3
RTH 580	Leisure Education in Therapeutic Recreation	3
RTH 593	Therapeutic Recreation Trends and Issues	3
RTH 700	Internship in Therapeutic Recreation	6
RTH 701	Philosophical Foundations of Leisure, Play and Recreation	3
RTH 720	Research Methods for Recreation, Parks, and Leisure	3
RTH 730	Advanced Clinical Aspects/Therapeutic Recreation	3
RTH 740	Evidence-Based Practice in Therapeutic Recreation	3
RTH 750	Authentic Leadership and Clinical Supervision in Therapeutic Recreation	3
Total Credits		36

At the discretion of the Therapeutic Recreation Program Director, previously taken equivalent undergraduate courses may not have to be repeated on the graduate level. Students who have required coursework waived must still earn at least 30 applicable graduate credits to complete the degree.

Capstone Experience

For students without a therapeutic recreation background, their internship (RTH 700) is the required capstone experience. These students may, if they choose, also complete a thesis or graduate project, but neither is required.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
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SOE - Professional Studies in Education Graduate Programs

Learning Community Program:

*MSED Professional Development: Learning Community Emphasis
Professional Learning Community Certificate
English Language Arts Elementary Certificate
Director of Institute for Professional Studies in Education (IPSE): Patricia Markos, Ph.D., CRC
269 Morris Hall; 608.785.5087
Email: pmarkos@uwlax.edu*

Educational Leadership:
*MSED Professional Development: Educational Leadership Emphasis
MSED Professional Development: Educational Leadership & Director of Instruction Emphasis
Educational Leadership Certificate
Director of Instruction Add-On Certification
Program Director: Bill Gillespie, Ph.D.
268 Morris Hall; 608.785.5410
Email: bgillespie@uwlax.edu*

Reading Program:
*Reading MSED with Non-Certification
Reading MSED with Reading Teacher (1316) Emphasis
Reading MSED with Reading Specialist (5017) Emphasis
Reading MSED with Reading Teacher (1316) and Reading Specialist (5017) Emphasis
Reading Teacher (1316) Certificate
Reading Specialist (5017) Add-on Certificate
Program Director: Alyssa Harlan
264 Morris Hall; 608.785.5409
Email: aharlan@uwlax.edu (aloh@uwlax.edu)*

www.uwlax.edu/grad/professional-studies-in-education/ (<https://www.uwlax.edu/grad/professional-studies-in-education/>)

Our Vision of the World

Through the lens of our innovative approach to education, we envision a world where all educators:

- Long to increase their capacity for leadership and create a greater positive impact within their community;
- Empathetically build more authentic, diverse, and meaningful relationships as they prepare our next generation of caring servant leaders.

We envision that our graduates are defined by their desire to:

- Inspire those around them to live caring and meaningful lives;
- Create a better future for generations to come.

Our Mission and the Work We Do

At IPSE, we:

- Feel a deep responsibility to create a world where every child can find happiness in chasing their dreams and passions;
- Work to further develop each teacher as an uplifting, empathetic, and inclusive educator who can create an environment where all students are able to discover their true selves.

Because teachers are the strongest influence in a child's life, we:

- Equip teachers with practical life-long skills;
- Allow teachers to enable their students to serve others and become more fulfilled individuals.

We passionately work to build a dynamic, connected, and inspired community of learners dedicated to transforming the profession of education.

What We Value and How We Transform Lives

We use a model of learning in community, where we integrate constructivism, experiential education, and relationship building to help teachers become better at serving others.

By valuing **student achievement**, we:

- Improve a teacher's professional calling by further developing pedagogical knowledge and cultural understanding;
- Embrace the art of facilitation and foster collaborative learning;
- Value human diversity and complexity by creating a safe, respectful, and challenging environment.

By valuing a **passion to impact others**, we:

- Feel a responsibility to create better schools, districts, and communities;
- Inspire teacher leaders to use their voice in advocating for others.

By valuing **empathy for others**, we:

- Work to create authentic and meaningful relationships;
- Believe that all teachers deserve the respect of other professionals.

By valuing **life-long learning**, we:

- Seek to further understand ourselves and others by listening, questioning, and providing feedback;
- Strive for continuous improvement by engaging in constant assessment and evaluation.

Non-Wisconsin teaching licensure/certification

UW-La Crosse programs offering a licensure or certification in Wisconsin will need to be reviewed by the State Board of Education of any other state in which the student plans on teaching. The individual state education boards determine what courses transfer in to meet license or certification requirements for each state.

Teacher certification websites for nearby states:

Illinois State Board of Education (<https://www.isbe.net/>)

- Educator licensure (<https://www.isbe.net/Pages/Educator-Licensure.aspx>)

Iowa Department of Education (<https://www.educateiowa.gov/>)

- Iowa Board of Educational Examiners (<http://www.boee.iowa.gov/>)

Michigan Department of Education (<http://www.michigan.gov/mde/>)

- Educator services (<https://www.michigan.gov/mde/0,4615,7-140-5683--,00.html>)

Minnesota Department of Education (<https://education.mn.gov/mde/>)

- Professional Educator Licensing and Standards Board (<https://mn.gov/pelsb/>)

Criminal background check

(applies to all educational leadership, director of instruction, and reading graduate programs)

The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s).

2020-21 Faculty/Staff

The following is the graduate faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Institute for Professional Studies in Education (IPSE) Director

Patricia Markos, Ph. D.

IPSE Administrative Support

Cindy George, Marketing Specialist

Jenny Holm, Outreach Specialist

Program Directors

Bill Gillespie, Ph. D., Director of Educational Leadership/Director of Instruction Program

Alyssa Harlan, Director of Graduate Reading Program

Adjunct Faculty

Daniel Beaman

Kimberly Edwards

Melissa Ender

Carla Hacker

Jeffrey Hansen

Laura Huber

Shelly Long

Catherine McCollister

Bonnie Roscovious

Kellie Schmitz

Kari Schultz

Tim Sprain

Stephanie Sullivan

Ann Yehle

Graduate degrees

- **Professional Development Program:**
 - Professional development: educational leadership emphasis - MSED (p. 87)
 - Professional development: educational leadership and director of instruction emphasis - MSED (p. 88)
 - Professional development: learning community emphasis - MSED (p. 90)
- **Reading Program:**
 - Reading - MSED (non-certification) (p. 91)
 - Reading: (p. 92) reading teacher (1316) emphasis (p. 92) - MSED (p. 92)
 - Reading: (p. 94) reading specialist (5017) emphasis (p. 94) - MSED (p. 94)
 - Reading: (p. 95) reading teacher (1316) and reading specialist (5017) emphasis (p. 95) - MSED (p. 95)

Certificates

- Educational leadership - certificate program (p. 96)
- English language arts elementary - certificate program (p. 97)
- Professional learning community - certificate program (p. 97)
- Reading teacher (1316) - certificate program (p. 98)

Add-on certifications

- Director of instruction (10) - add-on certification (p. 98)
- Reading specialist (5017) - add-on certification (p. 99)

Professional Development: Educational Leadership Emphasis - Master of Science in Education

The Master of Science in Education (MSED) Professional Development: Educational Leadership Emphasis Program is a 36-38 credit program designed for bachelor-level teachers with three years of successful full-time teaching who are seeking licensure as a PK-12 principal. The philosophy of the program is based on a learning-in-community, constructivist model with an emphasis on culturally relevant teaching where students join the program in a cohort. In a learning community that is constructivist, learners come together as a group to share common emotions, values, or beliefs in education and are actively engaged in learning together from each other. The program meets the Interstate School Leaders Licensure Consortium (ISLLC) standards, the Wisconsin Administrator Standards, and professional educational requirements for principal (5051) licensure in Wisconsin and most other states.

This program is offered in online, blended, or face-to-face formats.

Online

The online format combines three full semesters of online learning with two summer semesters. The result is a master's degree in 18 months. The online learning environment allows students flexibility to learn in the comfort of their own home.

Blended

The hybrid program is offered in an asynchronous format, increasing convenience for busy educators. The community also meets for five weekends a year for two years. The combination of face-to-face and online delivery frees more weekends for other commitments.

Face-to-Face

The face-to-face program meets ten weekends per year (17 hours/weekend). This format provides students the opportunity to earn a master's degree while maintaining a career and personal life.

Program requirements

Admission

To qualify for unconditional admission to the Professional Development: Educational Leadership Emphasis, a candidate must have:

- A baccalaureate degree in education from an accredited institution.
- An overall undergraduate grade point average of at least 3.00 on a 4.00 scale.
- A minimum of 2 years of PK-12 classroom teaching experience.
- Completion of a successful criminal background check (initiated by UWL).

Admission on probation

Students may be admitted on probation if they do not meet the minimum academic or graduate program admission requirements. Upon completion of nine graduate credits or two terms (whichever comes first) with a grade point average of 3.00 or above, the students will be removed from probation. Students admitted on probation will be dismissed from graduate study if their cumulative GPA is below 3.00 after completing nine graduate credits or two terms (whichever comes first).

Criminal background check

The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s).

Curriculum

(36-38 credits)

Code	Title	Credits
Core Curriculum		
EDU 765	Introduction to Educational Leadership	3
EDU 766	The Principalship	3
EDU 767	Data-based Decision Making for Instruction	3
EDU 768	Supervision and Evaluation	3
EDU 769	Leadership and Cultural Competence	3
EDU 770	School Law	3

EDU 771	School Finance and Resource Allocation	3
EDU 772	Inclusive Pedagogical Practices I	2
EDU 782	Inclusive Pedagogical Practices II	1
EDU 773	Practicum in the Principalship and Practicum Seminar	4
EDU 641	Educational Research I: Introduction	2
EDU 642	Educational Research II: Exploration	2
Total Credits		32

Students must also complete one of the following options:

Code	Title	Credits
Non-thesis option (4 credits)		4
EDU 743	Educational Research III: Conduct	
EDU 744	Educational Research IV: Publication	
Thesis option (6 credits)		6
EDU 776	Thesis	

Program completion

Eligibility for Educational Leadership (5051) certification is contingent upon:

- Cumulative graduate grade point average (GPA) of at least 3.0
- Satisfactory completion of Educational Leadership Program coursework, associated experiences, and artifacts (including portfolio)
- Successful completion of at least three years of teaching at the PK-12 level

The Minnesota Board of School Administrators requires 30 credits beyond the master's degree for Principal licensure; therefore, those seeking Minnesota licensure must take a minimum of two additional elective credits. Learners should work with their advisor to identify eligible electives.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
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6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Professional Development: Educational Leadership and Director of Instruction Emphasis - MSED

The Master of Science in Education (MSED) Professional Development: Educational Leadership Emphasis Program is a 42-44 credit program designed for bachelor-level teachers with three years of successful full-time teaching who are seeking licensure as a PK-12 principal. The philosophy of the program is based on a learning-in-community, constructivist model with an emphasis on culturally relevant teaching where students join the program in a cohort. In a learning community that is constructivist, learners come together as a group to share common emotions, values, or beliefs in education and are actively engaged in learning together from each other. The program meets the Interstate School Leaders Licensure Consortium (ISLLC) standards, the Wisconsin Administrator Standards, and professional educational requirements for principal (5051) licensure in Wisconsin and most other states.

This program is offered in online, blended, or face-to-face formats.

Online

The online format combines three full semesters of online learning with two summer semesters. The result is a master's degree in 18 months. The online learning environment allows students flexibility to learn in the comfort of their own home.

Blended

The hybrid program is offered in an asynchronous format, increasing convenience for busy educators. The community also meets for five weekends a year for two years. The combination of face-to-face and online delivery frees more weekends for other commitments.

Face-to-Face

The face-to-face program meets ten weekends per year (17 hours/weekend). This format provides students the opportunity to earn a master's degree while maintaining a career and personal life.

Director of Instruction (5010)

The Wisconsin Director of Instruction (5010) license is intended to help prepare candidates for school administration on a district level in Wisconsin. Administrators who have earned a Principal license (5051) are eligible to apply to UWL to take the required courses that lead to the Director of Instruction license in Wisconsin.

Program requirements

Admission

To qualify for unconditional admission to the Professional Development: Educational Leadership and Director of Instruction Emphasis, a candidate for the program must have:

- A baccalaureate degree in education from an accredited institution.
- An overall undergraduate grade point average of at least 3.00 on a 4.00 scale.
- A minimum of 1 year of PK-12 classroom teaching experience.
- Completion of a successful criminal background check (initiated by UWL).

Admission on probation

Students may be admitted on probation if they do not meet the minimum academic or graduate program admission requirements. Upon completion of nine graduate credits or two terms (whichever comes first) with a grade point average of 3.00 or above, the students will be removed from probation. Students admitted on probation will be dismissed from graduate study if their cumulative GPA is below 3.00 after completing nine graduate credits or two terms (whichever comes first).

Criminal background check

The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s).

Curriculum

(42-44 credits)

Code	Title	Credits
Core Curriculum		
EDU 765	Introduction to Educational Leadership	3
EDU 766	The Principalship	3
EDU 767	Data-based Decision Making for Instruction	3
EDU 768	Supervision and Evaluation	3
EDU 769	Leadership and Cultural Competence	3
EDU 770	School Law	3
EDU 771	School Finance and Resource Allocation	3
EDU 772	Inclusive Pedagogical Practices I	2

EDU 782	Inclusive Pedagogical Practices II	1
EDU 773	Practicum in the Principalship and Practicum Seminar	4
EDU 641	Educational Research I: Introduction	2
EDU 642	Educational Research II: Exploration	2
EDU 774	Curriculum and Leadership	3
EDU 775	Practicum for the Director of Instruction and Seminar	3
Total Credits		38

Students must also complete one of the following options:

Code	Title	Credits
Non-thesis option (4 credits)		4
EDU 743	Educational Research III: Conduct	
EDU 744	Educational Research IV: Publication	
Thesis option (6 credits)		6
EDU 776	Thesis	

Program completion

Eligibility for Educational Leadership (5051) and Director of Instruction (10) certification is contingent upon:

- Cumulative graduate grade point average (GPA) of at least 3.0
- Satisfactory completion of Educational Leadership and Director of Instruction Program coursework, associated experiences, and artifacts (including portfolio)
- Successful completion of at least three years of teaching at the PK-12 level

The Minnesota Board of School Administrators requires 30 credits beyond the master's degree for Principal licensure; therefore, those seeking Minnesota licensure must take a minimum of two additional elective credits. Learners should work with their advisor to identify eligible electives.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.

5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Professional Development: Learning Community Emphasis - Master of Science in Education

The Master of Science in Education (MSED) Professional Development: Learning Community Emphasis Program is a 32-credit degree program offered in face-to-face, hybrid, and online delivery formats. The face-to-face program meets twenty weekends (15 hours/weekend) over two years. The hybrid program combines ten face-to-face meetings with online delivery over two years. The online program combines three semesters of online delivery with two summer institutes over eighteen months. Learners are expected to apply their knowledge, skills, and dispositions to the professional work setting (minimum of four hours/week) and to communicate via an online communication system (minimum of two hours/week). Face-to-face and hybrid learning communities may begin in the fall or spring semester. Online communities may have spring or summer start times. The curriculum is integrated and spiraled throughout each semester and facilitated by a team of educators to communities of 10-15 students. A classroom action research project/seminar paper and professional development plan portfolio are the culminating projects of this program.

Learning outcomes: Every UWL Professional Development: Learning Community Emphasis graduate will...

1. Improve content and pedagogical knowledge
2. Experience professional and personal transformation
3. Conduct action research
4. Utilize authentic assessment
5. Exhibit teacher leadership
6. Improve pre K-16 student learning
7. Support pre K-16 student development and self efficacy
8. Create and sustain a professional learning community

Program requirements

Curriculum

(32 credits)

The Professional Development: Learning Community Emphasis Program starts in either the spring or summer terms. Sequenced courses occur over five academic terms, three semesters and two summer terms. The program can be taken online, as a blend of online and in-person courses, or be taken entirely in-person. To view the current course sequences for the different modes of instruction, visit the Learning Community Program (<https://www.uwlax.edu/grad/professional-studies-in-education/msed/overview/>)'s website.

Admission requirements

To qualify for unconditional admission to graduate study, you must have:

- A baccalaureate degree from an accredited institution.
- An overall undergraduate grade point average of at least 2.85 on a 4.00 scale; or an average of at least 3.00 in the last half of all undergraduate work; or an average of at least 3.00 for no less than 12 semester credits of graduate study at another accredited graduate school.
- Departmental or school/college approval to enter the graduate program chosen.

Required courses (listed in numerical order)

Code	Title	Credits
EDU 601	Learning in Community I: Introduction	1
EDU 602	Learning in Community II: Exploration	1
EDU 611	Technology in Education I: Introduction	1
EDU 612	Technology in Education II: Exploration	1
EDU 621	Best Practice Pedagogy I: Introduction	1
EDU 622	Best Practice Pedagogy II: Exploration	1
EDU 631	Curriculum Development and Assessment I: Introduction	1
EDU 632	Curriculum Development and Assessment II: Exploration	1
EDU 641	Educational Research I: Introduction	2
EDU 642	Educational Research II: Exploration	2
EDU 651	Democracy, Diversity and Social Justice in Education I: Introduction	1
EDU 652	Democracy, Diversity and Social Justice in Education II: Exploration	1
EDU 661	Teacher Leadership I: Introduction	1
EDU 662	Teacher Leadership II: Exploration	1
EDU 703	Learning in Community III: Integration	1
EDU 704	Learning in Community IV: Action	1
EDU 713	Technology in Education III: Integration	1
EDU 714	Technology in Education IV: Action	1
EDU 723	Best Practice Pedagogy III: Integration	1
EDU 724	Best Practice Pedagogy IV: Action	1
EDU 733	Curriculum Development and Assessment III: Integration	1
EDU 734	Curriculum Development and Assessment IV: Action	1
EDU 743	Educational Research III: Conduct	2
EDU 744	Educational Research IV: Publication	2

EDU 753	Democracy, Diversity and Social Justice in Education III: Integration	1
EDU 754	Democracy, Diversity and Social Justice in Education IV: Action	1
EDU 763	Teacher Leadership III: Integration	1
EDU 764	Teacher Leadership IV: Action	1
Total Credits		32

The Professional Development: Learning Community Program's total of 32 credits includes two culminating projects:

1. A classroom action research/seminar paper.
2. A professional portfolio showcasing the completed professional development plan.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.

8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Reading - Master of Science in Education - non-certification

This multifaceted, online program is designed to meet the needs of educators who are interested in ongoing professional development in reading education.

Master of Science in Education in Reading Program

The **online** UW#La Crosse Master of Science in Education in Reading Program is dedicated first and foremost to preparing graduate students who serve communities, families, students, schools and fellow educators as leaders in literacy education.

Through preparation and experiences in developmental and exceptional literacy instruction and assessment, students in the Master of Science in Education in Reading Program develop their knowledge, skills, and dispositions as classroom teachers of reading, as Title I or other Reading teachers, or as Reading Specialists or Consultants/Coaches for schools and/or districts.

Graduates of the Reading Program at UW#La Crosse are prepared:

1. To model current and authentic best practice in K#12 literacy education;
2. To seek and identify current research-based strategies and resources;
3. To provide services and support in literacy assessment, diagnosis, and evaluation;
4. To remain accountable to constituent groups;
5. And to advocate for students, families, and colleagues.

The Reading Teacher and Reading Specialist programs are aligned to the 2017 Standards for Reading Professionals of the International Literacy Association (ILA) and to InTASC Teaching standards (for the Reading Teacher programs) or to WI Administrator standards (PI 34.003, for the Reading Specialist programs). The ILA standards focus on the knowledge, skills, and dispositions necessary for effective educational practice and highlight contemporary research and evidence-based practices in curriculum, instruction, assessment, and leadership. These recently updated standards address the need for a broader definition of literacy beyond reading to include writing, speaking, listening, viewing, and visually representing in both print and digital realms. Likewise, the UWL Reading Teacher and Specialist curriculum is based on current research and best practice in the fields of literacy and reading. The program is delivered in an online format, and is dedicated first and foremost to preparing educators who serve communities, families, students, schools and fellow educators as leaders in literacy education.

Program requirements

Admission

Applicants to this program must meet the general graduate admissions requirements (p. 11) and criminal background check. Since no teaching certification is given, no other admission criteria is required.

Criminal background check

The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s).

Curriculum

(30 credits)

Code	Title	Credits
Core		
RDG 600	Research Methods in Literacy	3
RDG 601	Literacy and Language Development for Diverse Learners	3
RDG 702	Disciplinary Literacy	3
RDG 703	Literacy Assessment and Instruction	3
RDG 712	Critical Issues in Reading Difficulties	3
RDG 714	Reading Teacher Practicum	3
RDG 715	Children's and Adolescent Literature	3
Master's thesis (six credits required)		6
RDG 799	Action Research in Literacy	
Electives (at least three credits)		3
RDG 711	Advanced Research Methods in Literacy	
RDG 716	Special Topics Seminar in Reading Education	
TSL 500	Teaching English to Speakers of Other Languages (TESOL) Policies and Program Models	
TSL 550	TESOL National/International Internship Program	
TSL 563	Teaching English to Speakers of Other Languages (TESOL) Methods	
Total Credits		30

University requirements**University graduate degree requirements**

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Reading: Reading Teacher Emphasis - Master of Science in Education

This multifaceted, online program is designed to meet the needs of educators who are interested in (a) ongoing professional development in reading education and (b) certification in the State of Wisconsin as a Reading Teacher (1316 license).

Master of Science in Education in Reading Program

The **online** UW#La Crosse Master of Science in Education in Reading Program is dedicated first and foremost to preparing graduate students who serve communities, families, students, schools and fellow educators as leaders in literacy education.

Through preparation and experiences in developmental and exceptional literacy instruction and assessment, students in the Master of Science in Education in Reading Program develop their knowledge, skills, and dispositions as classroom teachers of reading, as Title I or other Reading teachers, or as Reading Specialists or Consultants/Coaches for schools and/or districts.

Graduates of the Reading Program at UW-#La Crosse are prepared:

1. To model current and authentic best practice in K#12 literacy education;
2. To seek and identify current research-based strategies and resources;
3. To provide services and support in literacy assessment, diagnosis, and evaluation;

4. To remain accountable to constituent groups;
5. And to advocate for students, families, and colleagues.

The Reading Teacher and Reading Specialist programs are aligned to the 2017 Standards for Reading Professionals of the International Literacy Association (ILA) and to InTASC Teaching standards (for the Reading Teacher programs) or to WI Administrator standards (PI 34.003, for the Reading Specialist programs). The ILA standards focus on the knowledge, skills, and dispositions necessary for effective educational practice and highlight contemporary research and evidence-based practices in curriculum, instruction, assessment, and leadership. These recently updated standards address the need for a broader definition of literacy beyond reading to include writing, speaking, listening, viewing, and visually representing in both print and digital realms. Likewise, the UWL Reading Teacher and Specialist curriculum is based on current research and best practice in the fields of literacy and reading. The program is delivered in an online format, and is dedicated first and foremost to preparing educators who serve communities, families, students, schools and fellow educators as leaders in literacy education.

Program requirements

Admission

Applicants to these programs must

- Have at least one year of full-time regular teaching experience in a PK-12 classroom
- Provide copies of teaching license or certificate
- Complete a successful criminal background check (initiated by UWL)

Criminal background check

The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s).

Curriculum

(30 credits minimum)

Code	Title	Credits
Core		
RDG 600	Research Methods in Literacy	3
RDG 601	Literacy and Language Development for Diverse Learners	3
RDG 702	Disciplinary Literacy	3
RDG 703	Literacy Assessment and Instruction	3
RDG 704	Emergent Literacy	3
RDG 711	Advanced Research Methods in Literacy	3
RDG 714	Reading Teacher Practicum	3
RDG 715	Children's and Adolescent Literature	3
Master's thesis (six credits required)		6
RDG 799	Action Research in Literacy	
Total Credits		30

Program completion and eligibility for certification

Eligibility for Reading Teacher (1316) certification is contingent upon:

- Cumulative graduate grade point average (GPA) of at least 3.0
- Passing score on the Foundations of Reading Test (FoRT; score of 240 or higher) or holding a lifetime teaching license
- Successful completion of at least two years of teaching at the PK-12 level

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Reading: Reading Specialist Emphasis - Master of Science in Education

This multifaceted, online program is designed to meet the needs of educators who are interested in (a) ongoing professional development in reading education and (b) certification in the State of Wisconsin as a Reading Specialist (5017 license).

Master of Science in Education in Reading Program

The **online** UW#La Crosse Master of Science in Education in Reading Program is dedicated first and foremost to preparing graduate students who serve communities, families, students, schools and fellow educators as leaders in literacy education.

Through preparation and experiences in developmental and exceptional literacy instruction and assessment, students in the Master of Science in Education in Reading Program develop their knowledge, skills, and dispositions as classroom teachers of reading, as Title I or other Reading teachers, or as Reading Specialists or Consultants/Coaches for schools and/or districts.

Graduates of the Reading Program at UW-#La Crosse are prepared:

1. To model current and authentic best practice in K#12 literacy education;
2. To seek and identify current research-#based strategies and resources;
3. To provide services and support in literacy assessment, diagnosis, and evaluation;
4. To remain accountable to constituent groups;
5. And to advocate for students, families, and colleagues.

The Reading Teacher and Reading Specialist programs are aligned to the 2017 Standards for Reading Professionals of the International Literacy Association (ILA) and to InTASC Teaching standards (for the Reading Teacher programs) or to WI Administrator standards (PI 34.003, for the Reading Specialist programs). The ILA standards focus on the knowledge, skills, and dispositions necessary for effective educational practice and highlight contemporary research and evidence-based practices in curriculum, instruction, assessment, and leadership. These recently updated standards address the need for a broader definition of literacy beyond reading to include writing, speaking, listening, viewing, and visually representing in both print and digital realms. Likewise, the UWL Reading Teacher and Specialist curriculum is based on current research and best practice in the fields of literacy and reading. The program is delivered in an online format, and is dedicated first and foremost to preparing educators who serve communities, families, students, schools and fellow educators as leaders in literacy education.

Program requirements

Admission

Applicants to this program must:

- Have at least two years of full-time regular experiences in PK-12 classroom

- Provide copies of teaching licenses or certificates
- Have a Reading Teacher (1316) license or equivalent
- Complete a successful criminal background check (initiated by UWL)

Candidates may transfer up to 12 credits of graduate level coursework to count towards their program if the Reading Program completion date is within seven years of the date when the transfer credit was earned.

Criminal background check

The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s).

Curriculum

Code	Title	Credits
RDG 600	Research Methods in Literacy	3
RDG 601	Literacy and Language Development for Diverse Learners	3
RDG 702	Disciplinary Literacy	3
RDG 703	Literacy Assessment and Instruction	3
RDG 711	Advanced Research Methods in Literacy	3
RDG 714	Reading Teacher Practicum	3
RDG 715	Children's and Adolescent Literature	3
RDG 718	Guiding and Directing a Schoolwide Reading/Literacy Program	3
Master's Thesis (six credits required)		6
RDG 799	Action Research in Literacy	
Total Credits		30

Program completion and eligibility for certification

Eligibility for Reading Specialist (5017) certification is contingent upon:

- Passing score on the Foundations of Reading Test (FoRT score of 240 or higher)
- Successful completion of at least six semesters of classroom experience teaching in any grade
- Reading Specialist (5017) candidates must have earned a master's degree with an emphasis in reading.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree

requirements within ten years from the time of initial enrollment in the graduate program.

3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Reading: Reading Teacher and Reading Specialist Emphasis - Master of Science in Education

This multifaceted, online program is designed to meet the needs of educators who are interested in (a) ongoing professional development in reading education, (b) certification in the State of Wisconsin as a Reading Teacher (1316 license), and (c) certification in the State of Wisconsin as a Reading Specialist (administrative) (5017 license).

Master of Science in Education in Reading Program

The **online** UW#La Crosse Master of Science in Education in Reading Program is dedicated first and foremost to preparing graduate students who serve communities, families, students, schools and fellow educators as leaders in literacy education.

Through preparation and experiences in developmental and exceptional literacy instruction and assessment, students in the Master of Science in Education in Reading Program develop their knowledge, skills, and dispositions as classroom teachers of reading, as Title I or other

Reading teachers, or as Reading Specialists or Consultants/Coaches for schools and/or districts.

Graduates of the Reading Program at UW#La Crosse are prepared:

1. To model current and authentic best practice in K#12 literacy education;
2. To seek and identify current research-based strategies and resources;
3. To provide services and support in literacy assessment, diagnosis, and evaluation;
4. To remain accountable to constituent groups;
5. And to advocate for students, families, and colleagues.

The Reading Teacher and Reading Specialist programs are aligned to the 2017 Standards for Reading Professionals of the International Literacy Association (ILA) and to InTASC Teaching standards (for the Reading Teacher programs) or to WI Administrator standards (PI 34.003, for the Reading Specialist programs). The ILA standards focus on the knowledge, skills, and dispositions necessary for effective educational practice and highlight contemporary research and evidence-based practices in curriculum, instruction, assessment, and leadership. These recently updated standards address the need for a broader definition of literacy beyond reading to include writing, speaking, listening, viewing, and visually representing in both print and digital realms. Likewise, the UWL Reading Teacher and Specialist curriculum is based on current research and best practice in the fields of literacy and reading. The program is delivered in an online format, and is dedicated first and foremost to preparing educators who serve communities, families, students, schools and fellow educators as leaders in literacy education.

Program requirements

Admission

Applicants to these programs must

- Have at least one year of full-time regular teaching experience in a PK-12 classroom
- Provide copies of teaching license or certificate
- Complete a successful criminal background check (initiated by UWL)

Criminal background check

The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s).

Curriculum

(36 credits)

Code	Title	Credits
Core		
RDG 600	Research Methods in Literacy	3

RDG 601	Literacy and Language Development for Diverse Learners	3
RDG 702	Disciplinary Literacy	3
RDG 703	Literacy Assessment and Instruction	3
RDG 704	Emergent Literacy	3
RDG 711	Advanced Research Methods in Literacy	3
RDG 714	Reading Teacher Practicum	3
RDG 715	Children's and Adolescent Literature	3
RDG 718	Guiding and Directing a Schoolwide Reading/Literacy Program	3
RDG 780	Reading Specialist Practicum	3
Master's thesis (six credits required)		6
RDG 799	Action Research in Literacy	
Total Credits		36

Program completion and eligibility for certification

Eligibility for Reading Teacher (1316) certification is contingent upon:

- Cumulative graduate grade point average (GPA) of at least 3.0
- Passing score on the Foundations of Reading Test (FoRT; score of 240 or higher) or holding a lifetime teaching license
- Successful completion of at least two years of teaching at the PK-12 level

Eligibility for Reading Specialist (5017) certification is contingent upon:

- Cumulative graduate grade point average (GPA) of at least 3.0
- Passing score on the Foundations of Reading Test (FoRT; score of 240 or higher)
- Successful completion of at least six semesters of classroom experience teaching in any grade
- Reading Specialist (5017) candidates must have earned a master's degree with an emphasis in reading

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.

5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Educational Leadership Certificate

The Educational Leadership Certificate is a 28-credit program for teachers, school counselors, school psychologists, and school social workers with a minimum of a master's degree seeking PK-12 Principal (5051) licensure through the WI Department of Public Instruction. The philosophy of the program is a learning-in-community, constructivist model with culturally relevant teaching. Students join in a cohort. The program meets the Interstate School Leaders Licensure Consortium (ISLLC) standards, the Wisconsin Administrative Standards, and professional educational requirements for principal licensure in Wisconsin. An administrative portfolio is required for program completion and licensure.

Program requirements

Admission requirements

1. A master's degree in education or closely related field from an accredited institution.
2. One of the following:
 - a. An overall undergraduate grade point average of at least 2.85 on a 4.00 scale, or
 - b. An average of at least 3.00 in the last half of all undergraduate work, or
 - c. An average of at least 3.00 for no fewer than 12 semester credits of graduate study at another accredited graduate institution.
3. Complete online application.
4. Original transcripts.
5. Copy of applicant's teacher, administrator, or professional license.

6. Provide verification that degrees completed outside the state meet WI licensing standards.

Criminal background check

The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s).

Curriculum

Code	Title	Credits
Required courses:		
EDU 765	Introduction to Educational Leadership	3
EDU 766	The Principalship	3
EDU 767	Data-based Decision Making for Instruction	3
EDU 768	Supervision and Evaluation	3
EDU 769	Leadership and Cultural Competence	3
EDU 770	School Law	3
EDU 771	School Finance and Resource Allocation	3
EDU 772	Inclusive Pedagogical Practices I	2
EDU 782	Inclusive Pedagogical Practices II	1
EDU 773	Practicum in the Principalship and Practicum Seminar	4
Total Credits		28

Program completion

Eligibility for Educational Leadership (5051) certification is contingent upon:

- Cumulative graduate grade point average (GPA) of at least 3.0
- Satisfactory completion of Educational Leadership Program coursework, associated experiences, and artifacts (including an administrative portfolio)
- Have completed three years of successful full-time teaching experience at any of the grades at the early childhood through adolescence developmental range, OR have completed three years of successful experience as a school counselor, a school psychologist, or a school social worker, which includes evidence of at least 540 hours of successful classroom teaching experience. (PI 34.065(4))

The Minnesota Board of School Administrators requires 30 credits beyond the master's degree for Principal licensure; therefore, those seeking Minnesota licensure must take a minimum of two additional elective credits. Learners should work with their advisor to identify eligible electives.

English Language Arts Elementary Certificate

The English Language Arts Elementary Certificate Program consists of six 2-credit graduate courses that include content in reading literature,

reading informational text, reading foundational skills, writing, speaking and listening, language, and digital literacy.

The primary objectives of the English Language Arts Elementary Certificate Program are to:

1. Develop and increase teachers' knowledge and understanding of the Common Core English Language Arts Standards for elementary grades;
2. Develop and increase teachers' knowledge of and expertise with instructional strategies, including technology, to implement the Common Core English Language Arts Standards effectively; and
3. Design and evaluate assessments that inform their instruction of the Common Core English Language Arts Standards.

Program requirements

Admission

1. A baccalaureate degree from an accredited institution.
2. One of the following:
 - a. An overall undergraduate grade point average of at least 2.85 on a 4.00 scale, or
 - b. An average of at least 3.00 in the last half of all undergraduate work, or
 - c. An average of at least 3.00 for no fewer than 12 semester credits of graduate study at another accredited graduate institution.

Curriculum

(Six 2-credit courses aligned with the content from the Common Core State Standards)

Code	Title	Credits
EDU 715	Common Core Assessment in English Language Arts Elementary	2
EDU 716	Effective Communication Through Language	2
EDU 717	Foundation of Literacy for Professional Educators	2
EDU 718	Writing and Language Exploration	2
EDU 719	Research Based Best Practice in Reading	2
EDU 720	Digital Literacy and the Common Core	2
Total Credits		12

Professional Learning Community Certificate

The Professional Learning Community (PLC) Certificate Program consists of four graduate courses that include content in the foundational framework and history of PLCs, essential components of PLCs, research on PLCs, the role of assessments, evaluations and grading within a PLC framework, analysis of various forms of assessments, identification and evaluation of instructional practices that lead to higher student achievement, designing assessments that inform practice, examining various school cultures, and developing a plan to improve a school's culture.

The primary objectives of the Professional Learning Community Certificate are to:

1. Develop and increase teachers' knowledge and understanding of the Professional Learning Communities (PLCs);

2. Develop and increase teachers' knowledge of and expertise with instructional strategies, including technology, to implement the Professional Learning Community outcomes effectively; and
3. Design and evaluate assessments that inform their instruction of the Professional Learning Community outcomes.

Program requirements

Admission

1. A baccalaureate degree from an accredited institution.
2. One of the following:
 - a. An overall undergraduate grade point average of at least 2.85 on a 4.00 scale, or
 - b. An average of at least 3.00 in the last half of all undergraduate work, or
 - c. An average of at least 3.00 for no fewer than 12 semester credits of graduate study at another accredited graduate institution.

Curriculum

Code	Title	Credits
EDU 735	Foundations of Professional Learning Communities	3
EDU 736	Assessments, Grading and Professional Learning Communities	3
EDU 737	Teacher Leadership: Professional Learning Communities	3
EDU 738	Professional Learning Community in the Content Areas	3
Total Credits		12

Reading Teacher Certificate

The Reading Teacher (1316) Certificate Program addresses the needs of students, school districts, and the community in building competency in literacy.

Teachers who complete this certificate program gain significant benefits. The Reading Teacher Certificate Program expands teachers' knowledge in literacy and trains them to become teacher leaders. The program reinforces many of the best practices in teacher education including constructivism, reflective practice, and transformation. The certificate program also allows participants to apply for financial aid.

This program is offered off campus - either online, face-to-face, or blended - throughout the state. Learning outcomes for the Reading Teacher Certificate Program are based on the standards from the International Literacy Association and have been approved by the Wisconsin Department of Public Instruction as satisfying the competencies for a 1316 license.

Program requirements

Admission

Applicants to these programs must

- Have at least one year of full-time regular teaching experience in a PK-12 classroom
- Provide copies of teaching license or certificate
- Complete a successful criminal background check (initiated by UWL)

Criminal background check

The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s).

Curriculum

(18 credits)

Code	Title	Credits
RDG 601	Literacy and Language Development for Diverse Learners	3
RDG 702	Disciplinary Literacy	3
RDG 703	Literacy Assessment and Instruction	3
RDG 704	Emergent Literacy	3
RDG 714	Reading Teacher Practicum	3
RDG 715	Children's and Adolescent Literature	3
Total Credits		18

Program completion and eligibility for certification

Eligibility for Reading Teacher (1316) certification is contingent upon:

- Cumulative graduate grade point average (GPA) of at least 3.0
- Passing score on the Foundations of Reading Test (FoRT; score of 240 or higher) or holding a lifetime teaching license
- Successful completion of at least two years of teaching at the PK-12 level

Director of Instruction Add-On Certification

Program requirements

The Wisconsin Director of Instruction add-on certification is intended to help prepare candidates for school administration on a district level in Wisconsin.

Admission

Administrators who have earned an administrative license (i.e. Principal 5051, Reading Specialist 5017, etc.) are eligible to apply to UWL to take the required courses that lead to the Director of Instruction license in Wisconsin.

In addition to completing the online application to UWL, applicants must:

1. Have an overall graduate grade point average of at least 3.0.
2. Provide the university their original transcript(s).
3. Provide a copy of their administrator license (i.e. Principal 5051, Reading Specialist 5017, etc.).
4. Provide verification that any degrees completed outside of WI meet state teaching standards.

5. Complete a successful criminal background check (initiated by UWL).

Criminal background check

The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal information to UWL in order to initiate their CBC and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s).

Curriculum

Candidates in the program must complete the following courses at UWL to receive a Wisconsin Department of Public Instruction (<https://dpi.wi.gov/tepd/licensing/types/administrator/>) Director of Instruction (10) license:

Code	Title	Credits
EDU 774	Curriculum and Leadership	3
EDU 775	Practicum for the Director of Instruction and Seminar	3

Program completion

Eligibility for the Director of Instruction (10) certification is contingent upon:

- Cumulative graduate grade point average (GPA) of at least 3.0
- Satisfactory completion of Director of Instruction Program coursework, associated experiences, and artifacts

The Minnesota Board of School Administrators requires 30 credits beyond the master's degree for Principal licensure; therefore, those seeking Minnesota licensure must take a minimum of two additional elective credits. Learners should work with their advisor to identify eligible electives.

Reading Specialist Add-On Certification

Admission

Applicants to this program must

- Have at least three years of full-time regular experiences in PK-12 classroom
- Provide copies of teaching licenses or certificates
- Have a Reading Teacher (1316) license or equivalent
- Have a master's degree in reading or literacy
- Research in reading or literacy
- Completion of a successful criminal background check (initiated by UWL)

Criminal background check

The WI Department of Public Instruction (DPI) requires that candidates for admission to a teacher education, administration, or pupil services program successfully pass a criminal background check (CBC) as one criterion for admission. By applying for admission to one of these programs, candidates agree to provide the necessary personal

information to UWL in order to initiate their CBC and to complete their portion of the process prior to the deadline specified in their admission letter. Teacher candidates are responsible for all costs associated with their criminal background check(s).

Curriculum

Code	Title	Credits
RDG 718	Guiding and Directing a Schoolwide Reading/Literacy Program	3
RDG 780	Reading Specialist Practicum	3

Program completion and eligibility for certification

Eligibility for Reading Specialist (5017) certification is contingent upon:

- Cumulative graduate grade point average (GPA) of at least 3.0
- Passing score on the Foundations of Reading Test (FoRT score of 240 or higher)
- Successful completion of at least six semesters of classroom experience teaching in any grade
- Reading Specialist (5017) candidates must have earned a master's degree with an emphasis in reading

SAA - Student Affairs Administration in Higher Education Graduate Program

*Department of Student Affairs Administration in Higher Education
Student Affairs Administration in Higher Education M.S. Program
Department Chair & M.S. Program Director: Tori Svoboda
345 Morris Hall; 608.785.6759
Email: tsvoboda@uwla.edu*

SAA Department: www.uwlax.edu/student-affairs-admin/ (<https://www.uwlax.edu/grad/student-affairs-administration/>)
M.S. Program: www.uwlax.edu/grad/student-affairs-administration/ (<https://www.uwlax.edu/grad/student-affairs-administration/>)

The Master of Science in Education (M.S.Ed.) in Student Affairs Administration (SAA) in Higher Education is a graduate program that educates and trains professionals to work in student or academic affairs positions at post-secondary institutions. The program promotes the integration of theory to practice with an emphasis on student learning and development, and inclusive and equitable practice. The program is designed to facilitate entry or advancement into a variety of student affairs administration positions. The combination of tenure-track faculty and instructors who are full-time practicing student affairs professionals provides a current and competency-based curriculum. Some of the areas students may choose to specialize in include: admissions, academic or career advising, financial aid, first-year experience, international education, multicultural student services, residence life, social justice centers, student success, student life, university centers or other student services areas.

Two cohort types are available:

- On-Campus
- Online

The on-campus option is primarily designed to serve those who wish to pursue full-time academic study with part-time field experience. The

online program combines working professionals in student affairs and higher education with students who have not worked professionally yet, who may gain field experience at our partner campuses. Admission to programs is competitive.

Note: Enrollment in SAA courses is restricted to graduate students admitted to the program, unless given special permission by the SAA Department Chair.

2020-21 Faculty/Staff

The following is the graduate faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Professor

Jörg Vianden, Ed.D. (<http://www.uwlax.edu/profile/jvianden/>)

Associate Professor

Becki Elkins, Ph.D. (<https://www.uwlax.edu/profile/belkins/>)

Tori Svoboda, Ed.D. (<http://www.uwlax.edu/profile/tsvoboda/>)

Assistant Professor

Adele Lozano, Ph.D. (<http://www.uwlax.edu/profile/alozano/>)

Clinical and Adjunct Faculty

The SAA Department works with several additional adjunct faculty located at various institutions across the country. Visit the SAA Department website (<https://www.uwlax.edu/student-affairs-admin/our-people/>) for the most current list of instructors.

Administrative Support

Tina Connelly (<http://www.uwlax.edu/profile/tconnelly/>)

Graduate degrees

- Student affairs administration in higher education - MSED: on-campus (p. 100)
- Student affairs administration in higher education - MSED: online (p. 101)
- Student affairs administration in higher education - MSED: UW-RF partner (p. 102) (*Not accepting new students. Final cohort admitted in 2019.*)

Student Affairs Administration in Higher Education: On-Campus - Master of Science in Education

An innovative and traditional small cohort program that includes graduate assistantships and internships at UW-La Crosse, Viterbo University, and Western Technical College.

Program requirements

Admission

Admission to graduate study does not constitute admission to the Student Affairs Administration in Higher Education Master of Science in Education Program. Priority consideration is given to applications received before February 1 each year. The application process for the SAA M.S.Ed. Program consists of three parts:

1. The UW System online application (<https://apply.wisconsin.edu/>) along with official transcripts sent to UWL admissions office from all institutions of higher education previously attended.
2. The required supplemental materials (<https://www.uwlax.edu/grad/student-affairs-administration/application-process/>), which include:
 - a. Resume
 - b. Personal statement
 - c. Contact information for two references
 - d. Program application
3. The SAA program interview(s): finalists may be invited to participate in an interview for the academic program. Interviews with SAA faculty may take place on campus, by phone, or via virtual meeting options. Additional interviews for M.S.Ed. graduate assistantship (GA) or graduate student internship (GSI) positions (<https://www.uwlax.edu/grad/student-affairs-administration/practical-experience/graduate-assistantships/>) are required for those who are not already working at least half-time in higher education.

Enrollment in SAA courses is restricted to graduate students in the SAA Program, unless given special permission by the department chair.

Students in the SAA M.S.Ed. Program are expected to complete at least half-time supervised field experience throughout their enrollment in the program. On-campus students generally meet this requirement by being selected for a relevant graduate assistantship as part of the admission process to the academic program. Online program students may meet this requirement by working full-time in the field or being selected for a graduate internship at one of our partner campuses. This field experience requirement is in addition to the practicum requirement (<https://www.uwlax.edu/grad/student-affairs-administration/practical-experience/practicum/>).

Curriculum

36 credits

Code	Title	Credits
Core		
SAA 700	Professional and Ethical Foundations in Student Affairs ¹	3
SAA 702	Student Development Theory	3
SAA 704	Leadership and Organizational Theories	3
SAA 705	Higher Education Values, Philosophy, and History	3
SAA 706	Advising and Supporting	3
SAA 708	Social Justice and Inclusion	3
SAA 730	Law, Policy, and Governance in Student Affairs	3
SAA 760	Administration of Human and Organizational Resources	3
Assessment and research		
SAA 765	Assessment and Evaluation in Student Affairs	3
SAA 780	Capstone Research and Proposal	3
SAA 790	Capstone Seminar in Student Affairs Administration	3

Topics/Field experience

SAA 720	Special Topics in Student Affairs Administration	1
SAA 775	Student Affairs Practicum	1
SAA 720	Special Topics in Student Affairs Administration	1
or SAA 775	Student Affairs Practicum	
Total Credits		36

¹ Course requires students to work at least 50% time in student affairs/higher education setting. See also the field experience requirement.

Field experience

In addition to completing required coursework, students are required to engage in ongoing supervised practice. Some students will meet this requirement through a graduate assistantship or internship in a student or academic affairs setting. These positions are generally 20 hours per week, for two academic years. Some students will meet this requirement by working at least 50% time in the field of student affairs in higher education. Additional information is available on the SAA Program website (<http://catalog.uwlax.edu/graduate/programrequirements/studentaffairs/student-affairs-administration-higher-education-on-campus-ms/www.uwlax.edu/saa/>).

University requirements**University graduate degree requirements**

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines ([https://www.uwlax.edu/graduate-studies/current-](https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/)

[graduate-students/thesis-and-dissertation/](https://www.uwlax.edu/graduate-students/thesis-and-dissertation/)), see the Office of Graduate Studies.

6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Student Affairs Administration in Higher Education: Online - Master of Science in Education

A program for current professionals in higher education who want to advance their career. This innovative cohort-based program values course activities that involve sharing experiences from diverse perspectives of higher education settings across the country.

Program requirements**Admission**

Admission to graduate study does not constitute admission to the Student Affairs Administration in Higher Education Master of Science in Education Program. Priority consideration is given to applications received before February 1 each year. The application process for the SAA M.S.Ed. Program consists of three parts:

1. The UW System online application (<https://apply.wisconsin.edu/>) along with official transcripts sent to UWL admissions office from all institutions of higher education previously attended.
2. The required supplemental materials (<https://www.uwlax.edu/grad/student-affairs-administration/application-process/>), which include:
 - a. Resume
 - b. Personal statement
 - c. Contact information for two references
 - d. Program application
3. The SAA program interview(s): finalists may be invited to participate in an interview for the academic program. Interviews with SAA faculty may take place on campus, by phone, or via virtual meeting options. Additional interviews for M.S.Ed. graduate assistantship (GA) or graduate student internship (GSI) positions (<https://www.uwlax.edu/grad/student-affairs-administration/practical-experience/graduate-assistantships/>) are required for those who are not already working at least half-time in higher education.

Enrollment in SAA courses is restricted to graduate students in the SAA Program, unless given special permission by the department chair.

Students in the SAA M.S.Ed. Program are expected to complete at least half-time supervised field experience throughout their enrollment in the program. On-campus students generally meet this requirement by being selected for a relevant graduate assistantship as part of the admission process to the academic program. Online program students may meet this requirement by working full-time in the field or being selected for a graduate internship at one of our partner campuses. This field experience requirement is in addition

to the practicum requirement (<https://www.uwlax.edu/grad/student-affairs-administration/practical-experience/practicum/>).

Curriculum

36 credits

Code	Title	Credits
Core		
SAA 700	Professional and Ethical Foundations in Student Affairs ¹	3
SAA 702	Student Development Theory	3
SAA 704	Leadership and Organizational Theories	3
SAA 705	Higher Education Values, Philosophy, and History	3
SAA 706	Advising and Supporting	3
SAA 708	Social Justice and Inclusion	3
SAA 730	Law, Policy, and Governance in Student Affairs	3
SAA 760	Administration of Human and Organizational Resources	3
Assessment and Research		
SAA 765	Assessment and Evaluation in Student Affairs	3
SAA 780	Capstone Research and Proposal	3
SAA 790	Capstone Seminar in Student Affairs Administration	3
Topics / Field Experience		
SAA 720	Special Topics in Student Affairs Administration	1
SAA 775	Student Affairs Practicum	1
SAA 720 or SAA 775	Special Topics in Student Affairs Administration Student Affairs Practicum	1
Total Credits		36

¹ Course requires students to work at least 50% time in student affairs/higher education setting. See also the field experience requirement.

Field experience

In addition to completing required coursework, students are required to engage in ongoing supervised practice. Most students will meet this requirement through a graduate assistantship or internship in a student or academic affairs setting. These positions are generally 20 hours per week, for two academic years. Some students will meet this requirement by working at full- or half-time in the field of student affairs in higher education. Additional information is available on the SAA Program website (<http://catalog.uwlax.edu/graduate/programrequirements/studentaffairs/student-affairs-administration-higher-education-online-https://www.uwlax.edu/saa/>).

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree

requirements within ten years from the time of initial enrollment in the graduate program.

3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Student Affairs Administration in Higher Education: UW-RF Partner - Master of Science in Ed

Designed for individuals who are seeking student affairs experience, the partner program involves enrolling in the SAA partner program while gaining professional experience as a paid "Graduate Student Intern" (a.k.a. Graduate Assistant) at the University of Wisconsin-River Falls. Partner program courses primarily utilize blended and online components.

****Program is on hold. Final cohort was admitted in 2019.****

Program requirements

Admission

Admission to graduate study does not constitute admission to the Student Affairs Administration in Higher Education Master of Science in Education Program. Priority consideration is given to applications received before February 1 each year. The application process for the SAA M.S.Ed. Program consists of three parts:

1. The UW System online application (<https://apply.wisconsin.edu/>) along with official transcripts sent to UWL admissions office from all institutions of higher education previously attended.
2. The required supplemental materials (<https://www.uwlax.edu/grad/student-affairs-administration/application-process/>), which include:
 - a. Resume
 - b. Personal statement
 - c. Contact information for two references
 - d. Program application
3. The SAA program interview(s): finalists may be invited to participate in an interview for the academic program. Interviews with SAA faculty may take place on campus, by phone, or via virtual meeting options. Additional interviews for M.S.Ed. graduate assistantship (GA) or graduate student internship (GSI) positions (<https://www.uwlax.edu/grad/student-affairs-administration/practical-experience/graduate-assistantships/>) are required for those who are not already working at least half-time in higher education.

Enrollment in SAA courses is restricted to graduate students in the SAA Program, unless given special permission by the department chair.

Students in the SAA M.S.Ed. Program are expected to complete at least half-time supervised field experience throughout their enrollment in the program. On-campus students generally meet this requirement by being selected for a relevant graduate assistantship as part of the admission process to the academic program. Online program students may meet this requirement by working full-time in the field or being selected for a graduate internship at one of our partner campuses. This field experience requirement is in addition to the practicum requirement (<https://www.uwlax.edu/grad/student-affairs-administration/practical-experience/practicum/>).

Curriculum

36 credits

Code	Title	Credits
Core		
SAA 700	Professional and Ethical Foundations in Student Affairs ¹	3
SAA 702	Student Development Theory	3
SAA 704	Leadership and Organizational Theories	3
SAA 705	Higher Education Values, Philosophy, and History	3
SAA 706	Advising and Supporting	3
SAA 708	Social Justice and Inclusion	3
SAA 730	Law, Policy, and Governance in Student Affairs	3
SAA 760	Administration of Human and Organizational Resources	3
Assessment and Research		
SAA 765	Assessment and Evaluation in Student Affairs	3
SAA 780	Capstone Research and Proposal	3
SAA 790	Capstone Seminar in Student Affairs Administration	3
Topics / Field Experience		
SAA 720	Special Topics in Student Affairs Administration	1
SAA 775	Student Affairs Practicum	1
SAA 720 or SAA 775	Special Topics in Student Affairs Administration or Student Affairs Practicum	1
Total Credits		36

- ¹ Course requires students to work at least 50% time in student affairs/higher education setting. See also the field experience requirement.

Field experience

In addition to completing required coursework, students are required to engage in ongoing supervised practice. Students will meet this requirement through a graduate internship in a student or academic affairs setting. These positions are generally 20 hours per week, for two academic years. Some students will meet this requirement by working at least 50% time in the field of student affairs in higher education. Additional information is available on the academic program site (<https://www.uwlax.edu/student-affairs-admin/>) and the UW River Falls partner site (<https://www.uwrf.edu/StudentAffairs/SAAatUWRF.cfm>).

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.

8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

SAA - Student Affairs Administration and Leadership Graduate Program

Department of Student Affairs Administration in Higher Education
 Department Chair: Tori Svoboda
 345 Morris Hall; 608.785.6869
 Email: tsvoboda@uwlax.edu

Student Affairs Administration and Leadership Ed.D. Program
 Director: Becki Elkins
 345 Morris Hall; 608.785.6869
 Email: belkins@uwlax.edu

SAA Department: www.uwlax.edu/student-affairs-admin/ (<https://www.uwlax.edu/student-affairs-admin/>)
 Ed.D. Program: www.uwlax.edu/grad/student-affairs-administration-and-leadership/ (<https://www.uwlax.edu/grad/student-affairs-administration-and-leadership/>)

The Doctor of Education (Ed.D.) in Student Affairs Administration and Leadership (SAAL) Program is designed to prepare currently employed student affairs professionals for senior-level positions in student affairs units and divisions. Courses are delivered online in a cohort model on a year-round basis. The program is designed to be completed in three years. Students are expected to continue to work in professional positions in higher education or student affairs while they complete the program.

Ideal candidates for this program are student affairs professionals who have excellent social and professional support networks, are highly motivated, are familiar with online learning, and can commit to an academically challenging program. Familiarity with course management systems (like Canvas) is helpful. A strong academic record at the master's degree level is expected.

2020-21 Faculty/Staff

The following is the graduate faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in July.

Professor

Jörg Vianden, Ed.D. (<http://www.uwlax.edu/profile/jvianden/>)

Associate Professor

Becki Elkins, Ph.D. (<https://www.uwlax.edu/profile/belkins/>)

Tori Svoboda, Ed.D. (<http://www.uwlax.edu/profile/tsvoboda/>)

Assistant Professor

Adele Lozano, Ph.D. (<http://www.uwlax.edu/profile/alozano/>)

Lecturer

Moir Ozias, Ph.D. (<https://www.uwlax.edu/profile/mozias/>)

Clinical and Adjunct Faculty

The SAA Department works with several additional adjunct faculty located at various institutions across the country. Visit the SAA Department website (<https://www.uwlax.edu/student-affairs-admin/our-people/>) for the most current list of instructors.

Administrative Support

Tina Connelly (<https://www.uwlax.edu/profile/tconnelly/>)

Graduate degree

- Doctor of Education - Ed.D. (p. 104)

Student Affairs Administration and Leadership - Doctor of Education

Mission

To prepare student affairs professionals for advanced leadership positions in institutions of higher education

Goals

1. Knowledge: To develop competent and expert SA professionals;
2. Management and Leadership: To develop innovative SA managers and leaders;
3. Assessment, Evaluation and Research: To develop scholar practitioners who advance research-informed decision making;
4. Equity, Diversity and Inclusion: To develop ambassadors of diversity, social justice, and globalization;
5. Interpersonal Relationships: To develop ethical and people-focused leaders;

Learning Outcomes

1. Through knowledge acquired in this program, graduates will be able to:
 - a. Demonstrate mastery of student affairs and higher education content;
 - b. Synthesize information from a range of sources to analyze issues and apply solutions to professional practice.
2. Through management and leadership skills acquired in this program, graduates will be able to:
 - a. Develop a vision for a division, considering complexities of institutional culture and resources;
 - b. Effectively justify decisions, judgments and recommendations, weighing competing evidence and making connections to the values and beliefs of the institution.
3. Through assessment, evaluation and research skills acquired in this program, graduates will be able to:
 - a. Use assessment, evaluation and research methods to inform practice;
 - b. Defend data informed decision making in professional practice.
4. Through an understanding of equity, diversity and inclusion skills acquired in this program, graduates will be able to:
 - a. Apply a critical lens to analyze and critique student affairs and higher education practices;

- b. Challenge the manifestations of privilege and oppression at institutions of higher education, considering implications for practice.
5. Through the development of exceptional interpersonal relationship skills acquired in this program, graduates will be able to:
 - a. Demonstrate respectful collaboration while seeking alternate points of view;
 - b. Defend practices that promote the worth, dignity, potential, and uniqueness of each person.

Program requirements

Admission

Admission to the Doctor in Education in Student Affairs Administration and Leadership Program is competitive and requires:

1. A master's degree in student affairs, higher education, or related field;
2. A minimum of three years professional experience in a post-secondary educational institution;
3. Current employment in a student affairs related professional position in a post-secondary educational institution or related setting with the expectation of continuing that employment while in the SAA Ed.D. Program;
4. An application essay in response to a prompt provided by the SAA Department;
5. A professional resume or vitae;
6. The names and contact information of three professional references;
7. Official transcripts of all post-secondary work.

Candidates may be asked to submit additional application materials and/or participate in an interview process.

Curriculum

54 credits

Code	Title	Credits
Core		39
SAA 800	21st Century Learners	
SAA 805	Organization and Governance	
SAA 808	Enrollment Management	
SAA 810	Philosophical and Theoretical Foundations of Leadership in Education	
SAA 820	Critical Analysis of Systemic Inequities: Challenges of Social Justice	
SAA 825	Finance and Budgeting	
SAA 830	Qualitative Research Methods	
SAA 835	Assessment and Program Evaluation	
SAA 840	Supervision and Human Resource Management	
SAA 845	Quantitative Research Methods	
SAA 865	Strategic Planning and Managing Change	
SAA 870	Policy and Regulatory Compliance	
SAA 875	Organizational Communication	
Dissertation		11
SAA 930	Dissertation Planning Workshop	
SAA 950	Dissertation Seminar	
SAA 990	Dissertation I	
SAA 995	Dissertation II	
Electives		4

SAA 720	Special Topics in Student Affairs Administration
SAA 855	Specialized Study
SAA 898	Special Topics in Student Affairs Administration and Leadership
SAA 931	Doctoral Writers' Retreat
<hr/>	
Total Credits	54

Dissertation

Students must successfully complete and defend a dissertation. Steps include:

1. Select a dissertation chair and committee.
2. Pass a dissertation proposal oral defense with the selected dissertation committee.
3. Submit a written dissertation to the selected dissertation committee (ideally by the final semester of the third year of full-time enrollment).
4. Not less than one semester after successful defense of the dissertation proposal, present an oral defense of the dissertation to the selected dissertation committee.
5. Submit the dissertation to the Office of Graduate Studies at least two weeks prior to the end of the term in which the student intends to graduate. Complete the necessary review and revision requirements (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>) as outlined by the Office of Graduate Studies.
6. To graduate in the same semester as their dissertation defense, students must successfully defend their dissertations by mid-November in the Fall or early-April in Spring. Visit the Ed.D. Program's dissertation (<https://www.uwlax.edu/grad/student-affairs-administration-and-leadership/dissertation/>) page for exact dates.

Students must maintain continuous term-to-term enrollment (excluding winter intercession) if all degree requirements have been completed except for the dissertation. Students meet this requirement by registering for GRC 799 for zero credits and paying a special course fee equal to the cost of one resident graduate credit. After two enrollments in GRC 799, students still actively engaged in research or writing and who need to maintain access to university resources must register for GRC 795 and pay a special course fee equal to 50% of the cost of one resident graduate credit. Further details of this Graduate Terminal Project Completion Policy (<http://catalog.uwlax.edu/graduate/academicpolicies/registrationschedules/#continuous-registration>) can be viewed in the graduate catalog.

University requirements

University graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.

3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Office of Graduate Studies for editorial review and approval by the Graduate Studies Director. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies/current-graduate-students/thesis-and-dissertation/>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)

Course Descriptions

Archaeology (ARC) - Graduate Courses

Courses

ARC 409/509 Cr.1-3

Readings and Research in Archaeology

Directed readings or research under the supervision of an instructor. Repeatable for credit - maximum 12. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Consent of instructor. Offered Annually.

ARC 498/598 Cr.1-3

Seminar in Archaeology

Intensive study of a specific area or problem of archaeology. Repeatable for credit - maximum 12 between ARC 498/598 and ANT 499. Departmental option for pass/fail grading. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Occasionally.

Art (ART) - Graduate Courses

Courses

ART 500 Cr.1-3

Perspective in Art II

Art studio and/or historical investigation within traditional and contemporary areas of art. Repeatable for credit - maximum three. Consent of instructor. Offered Occasionally.

ART 615 Cr.1-3

Art Seminar

An in-depth investigation of a specific area of studio art, art history, or art education taught by an artist or instructor who has recognized mastery of knowledge, skill, or talent. Prerequisite: an undergraduate degree in visual arts or consent of the instructor. Offered Occasionally.

Athletic Training Studies (ATS) - Graduate Courses

Courses

ATS 700 Cr.4

Professional Practice and Athletic Training Healthcare

This course is designed to enhance understanding of athletic training practice in the global healthcare environment. The course covers foundational concepts of athletic training healthcare related to the prevention, diagnosis, treatment, and rehabilitation of injuries and illnesses in athletes and the physically active patient populations. Lect. 3, Lab 2. Prerequisite: admission to graduate Athletic Training Program. Offered Summer.

ATS 702 Cr.3

Functional Anatomy and Medical Physiology

This course provides a comprehensive review of human anatomy and physiology using a regional and systems approach. The course covers the anatomy of the thorax, abdomen, pelvis, perineum, lower limbs, head, neck, spine, and upper limbs. Lecture and laboratory components of this course emphasize the clinical relevance of each area considered utilizing prosected human cadavers. Lect. 2, Lab 2. Prerequisite: ATS 700; admission to graduate Athletic Training Program. Offered Fall.

ATS 704 Cr.3

Applied Neuroscience in Athletic Training

This course is designed to provide an in-depth examination of current issues related to the recognition, assessment, and management of brain and spinal injuries. The course will cover topics related to brain anatomy and physiology, differential diagnosis of emergent neurological injuries, assessment techniques, return-to-play issues, return-to-learn, treatment options, and current recommendations. The course will also cover the diagnosis, treatment, and rehabilitation of neurological pathologies common in sport. Lect. 2, Lab 2. Prerequisite: ATS 702; admission to graduate Athletic Training Program. Offered Annually.

ATS 710 Cr.4

Emergency Care Principles in Healthcare

This course prepares students who will be involved in planning and providing medical care in emergency situations at athletic-related events. Basic principles of life-threatening injury and illness, management, and transfer within an environment in one or multiple patients will be addressed. Also included in this course are basic emergency and clinical evaluation techniques as well as measures to mitigate the severity of illness/injury sequelae. Lect. 2, Lab 4. Prerequisite: admission to graduate Athletic Training Program. Offered Annually.

ATS 712 Cr.5

Diagnosis and Therapeutic Interventions I

This course is designed to provide a foundation for evaluation and treatment of injuries and conditions for select body regions as seen in various patient populations. This course will prepare students to diagnose and treat injuries and conditions utilizing therapeutic interventions from diagnosis to discharge. Lect. 2, Lab 6. Prerequisite: ATS 700, ATS 710; admission to graduate Athletic Training Program. Offered Annually.

ATS 714 Cr.5

Diagnosis and Therapeutic Interventions II

This course provides a foundation for evaluation and treatment of injuries and conditions as seen in various patient populations for the remaining body regions not covered in Diagnosis and Therapeutic Interventions I. Students are prepared to diagnose and treat injuries and conditions utilizing therapeutic interventions from diagnosis to discharge. Lect. 2, Lab 6. Prerequisite: ATS 712; admission to graduate Athletic Training Program. Offered Annually.

ATS 716 Cr.3

Pathophysiology of General Medical Conditions

This course introduces students to the pathology of injuries and illnesses of the body systems treated by allied healthcare professionals. Identification, diagnosis, management, and resolution of acute and chronic illness, conditions, and syndromes in general populations will be discussed. Topics include commonly-occurring risk factors, conditions, disabilities, diseases, and the impact of comorbidities across the lifespans of patients. Topics will be categorized into physiological responses to trauma, disease, inflammatory responses, and autoimmune/ immunodeficiency responses to various diseases, syndromes, and conditions. Prerequisite: admission to graduate Athletic Training Program. Offered Summer.

ATS 718 Cr.3

Healthcare Administration in Athletic Training

This course will provide content related to administrative policies involved in the management of an efficient athletic training healthcare practice. The course is designed to provide insight into organizational structures, legal implications, personnel, fiscal management, schedule and facility planning-implementation, contest management, record keeping, and public relations. The course will cover systems of healthcare information technology. Emphasis will be placed on collaborative learning and integration of health information technology principles into the student's daily clinical practice. Prerequisite: admission to graduate Athletic Training Program. Offered Fall.

ATS 720 Cr.5

Lifespan Wellness and Conditions

This course addresses conditions, pathologies, and injury outcomes that can be common throughout the lifespan of the active patient. Information on a wide variety of clinically-relevant items including history of pathology/condition, medical history, preventative strategies and diagnostic assessment, treatment, and long-term care of patient will be covered. Emphasis will include direct medical intervention, nutrition, and general healthy lifestyle activities, while utilizing evidence-based principles to increase overall wellness across the lifespan. Lect. 4, Lab. 2. Prerequisite: ATS 714; admission to graduate Athletic Training Program. Offered Summer.

ATS 722 Cr.2

Rehabilitation Psychology and Healthcare Sociology in Athletic Training

This course provides content related to the history, philosophy, and legislation of psychological rehabilitation services in healthcare. Study of the rehabilitation process from referral to closure as well as legal issues, medical sociology, rehabilitation psychology, professional ethics, consumer advocacy, and community resources will be explored. Prerequisite: admission to graduate Athletic Training Program. Offered Summer.

ATS 731 Cr.4

Athletic Training Clinical I

This initial clinical course exposes students to a variety of sports medicine clinical experiences. Supervised experiences will apply students' knowledge, skills, and abilities in a patient-centered healthcare environment. This course will emphasize the application of the foundational knowledge gained in previous coursework into clinical practice including, but not limited to, emergent medicine, professional communications, and evidence-based differential diagnosis. Prerequisite: admission to graduate Athletic Training Program. Offered Annually.

ATS 732 Cr.4

Athletic Training Clinical II

This clinical course will continue to expose students to a variety of sports medicine experiences building on the outcomes gained from Athletic Training Clinical I and previous course work. Students will utilize gained knowledge to build on athletic training skills in a patient-centered healthcare setting. These supervised experiences will include clinical practice with patients that have activity-related injury/illness. Prerequisite: ATS 731; admission to graduate Athletic Training Program. Offered Annually.

ATS 733 Cr.3

Athletic Training Clinical III

This is a full-time clinical immersion experience for athletic training students. Students will be exposed to all aspects of athletic training clinical care in a focused setting. Students will work closely with preceptors to get a hands-on experience engaging in all aspects of patient-centered care. Prerequisite: ATS 732; admission to graduate Athletic Training Program. Offered Annually.

ATS 734 Cr.6

Athletic Training Clinical IV

This is a full-time clinical immersion experience for athletic training students. Students will apply all foundational knowledge in this clinical experience while working with a preceptor. Emphasis of this hands-on clinical experience will be placed on inter-professional practice and the incorporation of all aspects of athletic training clinical practice. Prerequisite: ATS 733; admission to graduate Athletic Training Program. Offered Annually.

ATS 740 Cr.2

Research Methods in Athletic Training

This course provides understanding of scientific research in athletic training and related healthcare fields. Emphasis will be placed on the importance of building a research base in athletic training and designing a research study from conception to dissemination. Students will also review current research related to athletic training. Prerequisite: admission to graduate Athletic Training Program. Offered Fall.

ATS 741 Cr.1

Athletic Training Research I

The intent of this series of four research courses is to provide students with the knowledge and skills to conduct and complete a research project. Students will perform a professional presentation at the culmination of the research courses. This course is the first of the series, and will focus on developing a research topic and obtaining IRB approval for the research study. Prerequisite: ATS 740, ATS 745; admission to graduate Athletic Training Program. Offered Fall.

ATS 742 Cr.1

Athletic Training Research II

The intent of this series of four research courses is to provide students with the knowledge and skills to conduct and complete a research project. In this second course of the series, students will conduct the data collection phase of the research project. Prerequisite: ATS 741; admission to graduate Athletic Training Program. Offered Spring.

ATS 743 Cr.2

Athletic Training Research III

The intent of this series of four research courses is to provide students with the knowledge and skills to conduct and complete a research project. In this third course of the series, students will complete data collection and conduct data processing and analysis. Prerequisite: ATS 742; admission to graduate Athletic Training Program. Offered Fall.

ATS 744 Cr.2

Athletic Training Research IV

The intent of this series of four research courses is to provide students with the knowledge and skills to conduct and complete a research project. In this fourth and final course of the series, students will complete the final draft of the research manuscript and share the research findings via a professional presentation. Prerequisite: ATS 743; admission to graduate Athletic Training Program. Offered Spring.

ATS 745 Cr.2

Statistics for Athletic Trainers

This course provides an introduction to statistical reasoning in athletic training. Emphasis is placed on practical application of statistical methods. Topics include descriptive statistics, probability, binomial and normal distributions, estimation, and hypothesis testing for means and proportions. Additional topics may be selected from various parametric and non-parametric methods. Prerequisite: admission to graduate Athletic Training Program. Offered Summer.

ATS 750 Cr.2

Athletic Training Readings

The objective of this course is to challenge students to be consumers and critics of literature related to athletic training. Emphasis will be in the foundational exercise sciences and applied athletic training practice. Repeatable for credit - maximum four. Prerequisite: admission to graduate Athletic Training Program. Offered Annually.

Biology (BIO) - Graduate Courses

Courses

BIO 401/501 Cr.4

Comparative Vertebrate Anatomy

Comparative anatomy is fundamental for investigating vertebrate function and evolutionary biology. The course integrates anatomy, evolution, and development of the chordate body, system-by-system and across the group's diversity from flying and running vertebrates to sea squirts and lampreys. Labs will raise insight and skill through comprehensive, respectful dissection of minks, dogfish sharks, lampreys, and representative organ specimens. One lab period per week is dedicated to a main dissection and exploration of anatomy. The next lab period integrates lecture, dissection refinement, and collaborative reinforcement of learning. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 4. Offered Spring.

BIO 404/504 Cr.3

Plant Taxonomy

Collection, identification, classification, and evolution of the vascular plants with emphasis on local flora. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 1, Lab 4. Prerequisite: BIO 203 or BIO 304. Offered Spring - Odd Numbered Years.

BIO 405/505 Cr.2

Aquatic and Wetland Vascular Plants

Identification and collection of vascular plants of aquatic and marsh habitats with emphasis on adaptive morphology and ecology of local species. Field trips required. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 1, Lab 2. Prerequisite: BIO 203 or BIO 304. Offered Fall - Even Numbered Years.

BIO 406/506 Cr.4

Parasitology

A survey of the major groups of animal parasites with regard to their taxonomy, morphology, life histories, host-parasite relationships, and economic importance. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 4. Prerequisite: BIO 203 or BIO 210 or BIO 303. Offered Fall.

BIO 408/508 Cr.4

Developmental Biology

An exploration of the cellular and molecular mechanisms that underlie embryonic development in several model organisms. Topics include fertilization, regulation of gene expression, cell fate determination, stem cells, early pattern formation, morphogenesis of tissues/organs, and limb formation. The course primarily focuses on animal models with an emphasis on evolutionarily conserved processes, structures, and molecular pathways. Technological advances and relevance to human development and disease are highlighted throughout. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 4. Prerequisite: BIO 203 or BIO 210 or BIO 303; BIO 306 or MIC 416; BIO 315. Offered Spring.

BIO/PAS/PTS 509 Cr.3

Human Gross Anatomy

A comprehensive consideration of human gross anatomy. Systems included are musculoskeletal, neurological, urogenital, gastrointestinal and cardiopulmonary. Function, development, and topographic correlations are emphasized as a means toward evaluating clinical applications. Biomechanical function, topographic and clinical applications are emphasized. Prerequisite: admission to the Biology CRNA Program, PAS Program, or DPT Professional Program; concurrent enrollment in BIO/PAS/PTS 510 under same department. (Cross-listed with BIO/PAS/PTS; may only earn credit in one department.) Offered Summer.

BIO/PAS/PTS 510 Cr.3

Applied Human Gross Anatomy

A comprehensive consideration of human anatomy including both neuro-musculoskeletal components and internal organ systems. Systems included are musculoskeletal, neurological, urogenital, gastrointestinal, and cardiopulmonary. The course provides an in-depth understanding of the gross anatomy of the human body through regional dissection. This understanding will then be demonstrated through the application of anatomy within clinical presentations. Prerequisite: admission to the Biology CRNA Program, PAS Program, or DPT Professional Program; concurrent enrollment in BIO/PAS/PTS 509 under same department. (Cross-listed with BIO/PAS/PTS; may only earn credit in one department.) Offered Summer.

BIO 412/512 Cr.4

Mycology

A survey of all the major groups of fungi of the fungal kingdom (and relatives) in terms of systematics, anatomy, morphology, ecology, physiology, genetics, evolutionary relationships, and human and plant pathology. Laboratory includes microscopic and macroscopic study of the fungi, as well as making a collection of cultures and of fungal reproductive structures (including mushrooms) from selected groups. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 4. Prerequisite: BIO 203 or BIO 304 or MIC 230. Both the microbiology course and one of the biology courses are strongly recommended. Offered Fall.

BIO 413/513 Cr.3

Medical Mycology

A study of the increasing number of medically important fungi, including the yeasts, molds, other fungi, and actinomycetes that are pathogenic to humans and other animals. Emphasis is on laboratory techniques for isolation and identification of these pathogenic fungi. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: BIO 412/512 or MIC 230. Offered Spring.

BIO 414/514 Cr.3

Freshwater Invertebrate Zoology

Introduces the ecology and taxonomy of the metazoan, non-parasitic freshwater invertebrates. An extensive course designed to provide a foundation for taxonomic knowledge, and basic understanding of the biology and ecology of freshwater invertebrates for advanced students in aquatic and environmental sciences. Lectures will focus on ecology; labs on taxonomy and quantitative skills. A student reference collection and weekend field trips will be required. Lect. 2, Lab. 2. Prerequisite: BIO 203 or BIO 210 or BIO 341. Offered Occasionally.

BIO 419/519 Cr.3

Quantitative Methods in Ecology

An introduction to field and laboratory procedures used by ecologists to describe and analyze the interactions between organisms and their environments. The course will emphasize quantitative techniques, including the use of computer technology, for collecting, recording and interpreting ecological data. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: BIO 307, BIO 341, or equivalent coursework; STAT 145, MTH 265, or equivalent experience with statistics. Offered Fall.

BIO 421/521 Cr.3

Comparative Vertebrate Endocrinology

A comprehensive study of the production, regulation, structure, molecular to whole-body actions, metabolism, and excretion of biochemical signaling molecules across vertebrates with a focus on amphibians, fish, birds, and mammals. Hormone and neurotransmitter pathways will be examined with relationship to evolutionary and environmental influences using lecture, review of primary literature, and case studies. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 313 or BIO 458/558. Offered Spring.

BIO 422/522 Cr.3

Ichthyology

A study of the taxonomy, anatomy, physiology, and ecology of fish, with emphasis on the fresh water fishes. Lect. 2, Lab. 2. Prerequisite: BIO 203 or BIO 210 or BIO 303. Offered Fall - Odd Numbered Years.

BIO 424/524 Cr.3

Human Endocrinology

A comprehensive study of the production, regulation, structure, molecular to whole body actions, metabolism, and excretion of biochemical signaling molecules in humans. The classical and more recently recognized neurotransmitter and hormone pathways and clinical and pharmacology considerations of each will be explored with lectures, primary literature and case studies. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 313, BIO 458/558, or equivalent coursework. Offered Fall.

BIO 428/528 Cr.3

Advanced Nutrition for the Health Professions

A comprehensive study of nutrition-related diseases and nutrition assessment, evaluation, and management in clinical settings that people working in healthcare may encounter. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 313 or NUT 200. Offered Fall, Spring.

BIO 429/529 Cr.3

Evolution

Consideration of the principles and the record of organic evolution of plants and animals. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 306. Offered Spring.

BIO 432/532 Cr.2

Biology of Cancer

A survey of the current knowledge of cancer biology. The course will include lectures on a wide range of cancer topics including: characteristics of cancer cells, carcinogenesis, cancer genes, tumor classification, invasion, metastasis, inheritance, immunology, drug development, treatment, and prevention. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 303 or BIO 313; BIO 306 or MIC 416. Offered Fall, Spring.

BIO 435/535 Cr.3

Molecular Biology

A study of molecular biology with an emphasis on eukaryotic systems. The course will focus on the molecular aspects controlling biological processes. The impact of recombinant DNA technology on biotechnology and medicine will also be examined. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 306 and BIO 315, or MIC 416/516; three semesters of college chemistry including organic chemistry. Biochemistry strongly recommended. BIO 436/536 is an optional laboratory which can be taken concurrently. Offered Fall, Spring.

BIO 436/536 Cr.1

Molecular Biology Laboratory

A study of molecular biology with an emphasis on eukaryotic systems. Laboratory emphasis is on recombinant DNA technology, current techniques used to express recombinant proteins in eukaryotic cells, computer based DNA analysis, macromolecular modeling using computers, and quantitative assay techniques. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lab. 3. Prerequisite: taken concurrently with BIO 435/535. This lab is optional for those enrolled in BIO 435/535. Offered Fall, Spring.

BIO 437/537 Cr.3

Plant Growth and Development

Discussion of experiments and analysis of research data obtained from the living plant. Prerequisite: BIO 203 or BIO 304 or equivalent. Offered Occasionally.

BIO 439/539 Cr.3

Plant Anatomy

A detailed examination of plant structure and development as revealed with the light and electron microscopes. Primarily seed plants will be examined. Structure and development will be studied as a means by which plants cope with their ecology, evolution and function. Lect. 2, Lab. 2. Prerequisite: BIO 203 or BIO 304 or an equivalent general botany course. Offered Occasionally.

BIO/MIC 440/540 Cr.2

Bioinformatics

In this course, students will use computers to study and compare the sequence of nucleotides in DNA or RNA, or the amino acids in a protein. Computers also are used to examine the three dimensional structure of protein. Being able to manipulate and study this information is the basis for the current revolution in biotechnology. Topics include evolution, taxonomy, genomics and understanding disease. This course provides students an opportunity to explore the relationships between biology, microbiology, chemistry, and computer science. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 1, Lab 2. Prerequisite: BIO 306 or MIC 416/516. (Cross-listed with BIO/MIC; may only earn credit in one department.) Offered Spring, Winter.

BIO 441/541 Cr.3

Environmental Toxicology

The study of the lethal and sublethal effects of chemical contaminants on ecosystems and humans. Topics covered include environmental legislation, chemical distribution and fate in the environment, methods of toxicity testing, assessment of exposure and risk, effects of chemical contaminants on humans, and fish and wildlife populations, communities and ecosystems, and toxicity of specific chemical groups. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 307 or BIO 341; CHM 104. Offered Spring - Odd Numbered Years.

BIO/MIC 442/542 Cr.3

Plant Microbe Interactions

This course will explore in-depth various ways that plants interact with microbes in the environment, at the macroscopic, cellular, and molecular levels. Case studies will include both parasitic and mutualistic (symbiotic) interactions. Microbes include fungi, bacteria, nematodes, and viruses. Includes plant pathology and studies of the beneficial relationships between plants and microbes. Inquiry-based labs are integrated into the lecture and discussion sessions. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: BIO 203 or BIO 304; MIC 230. (Cross-listed with BIO/MIC; may only earn credit in one department.) Offered Fall - Odd Numbered Years.

BIO 443/543 Cr.3

Molecular Mechanism of Disease and Drug Action

A survey of the leading non-infectious and non-cancerous diseases in the industrialized world. This course will explore the molecular mechanisms of disease, clinical symptomology, and pharmacological treatment. Students will be expected to conduct thorough research on a given disease and present their results in a poster session. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 306, BIO 313; CHM 300 or CHM 304. Offered Spring.

BIO 444/544 Cr.4

Entomology

Insects and their close relatives are ubiquitous, affecting humans' lives in profound ways. We will investigate the anatomy, behavior, evolution, and ecology of insects, as well as how insects impact human culture. Discussions, presentations, illustrations, field research, curation of specimens, and other activities offer opportunities for students to apply insect research knowledge and skills. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 3, Lab 2. Prerequisite: BIO 203. Offered Fall - Even Numbered Years.

BIO 546 Cr.3

Animal Behavior

We will explore factors that help to explain how and why animals behave as they do. Example topics include social behavior, learning, symbiotic relationships, sensory systems, communication, mating systems, defense, and parental care. Emphasis will be placed on non-human animals. Discussions, presentations, illustrations, and other activities offer opportunities for students to apply behavioral research knowledge and skills. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Annually.

BIO 447/547 Cr.3

Standard Methods/Quality Assurance Water Analyses

This course will instruct students on the use of standard methods for analyses of selected biological, chemical, and physical constituents commonly included in water quality analyses. Quality assurance procedures, including Good Laboratory Practice Standards (GLPS) will be integrated into all activities. Materials covered include: principles of methods used; evaluation of precision, bias, and contamination; proper reporting and interpretation of results; and environmental sources and significance of constituents analyzed. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 1, Lab 4. Prerequisite: BIO 203 or BIO 210 or BIO 303 or BIO 304, and three semesters of college chemistry. BIO 341 recommended. Offered Spring.

BIO 449/549 Cr.3

Advanced Microscopy and Biological Imaging

Principles and techniques used in modern microscopy and biological image analysis. Emphasis will be on student projects to become proficient at confocal, fluorescence, and scanning electron microscopy. Students will also learn specimen preparation, digital imaging, and image processing and analysis for biological applications. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: BIO 315 or MIC 230. Offered Fall - Even Numbered Years.

BIO 456/556 Cr.4

Plant Ecology

Conservation biology, ecological restoration, and predicting the effects of climate change all require an understanding of plant ecology. This course is focused on the interactions among plants, other organisms, and the environment. We will work across the individual, population, and community levels, and emphasize an exploratory approach to plant ecology. Class activities will include lectures, the discussion of ecological journal articles, and carrying out student-designed experiments. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 3, Lab 2. Offered Fall - Even Numbered Years.

BIO 458/558 Cr.4

Comparative Animal Physiology

This course has both a lecture and a laboratory component. It aims to provide a thorough understanding of animal physiology from a comparative perspective. Emphasis will be placed on the basic physiological principles by which animals perform their life sustaining functions. Lectures will focus on vertebral animals, but will span both invertebrate and vertebrate models to illustrate how largely divergent groups have evolved different (or similar) mechanisms to cope with environmental challenges. The laboratory component will provide an active learning environment and hands-on experience in physiological experimentation. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 3, Lab 2. Offered Fall.

BIO 460/560 Cr.1-4

Symposium in Biology

Studies in biology of interest to specific groups. Varying topics will be offered at intervals with a specific title assigned to each. May be staffed by resident faculty or visiting lecturers. Other departments may be invited to participate. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit - maximum 16. Variable offerings - check registration schedules. Prerequisite: four semesters of biology. Offered Occasionally.

BIO 561 Cr.1-4

Directed Studies

This course provides opportunity for directed readings or presentation of material not available in departmental graduate courses. Repeatable for credit - maximum four. Consent of instructor. Offered Fall, Spring.

BIO 464/564 Cr.3

Stream and Watershed Ecology

Introduces key concepts and theory pertinent to understanding and managing fluvial ecosystems (rivers and streams) and their watersheds. The course will emphasize rivers as large-scale physical and biological systems. Course work includes a comparative case study of distinctive types of temperate, tropical, and polar rivers. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 341 or BIO 307. Offered Spring.

BIO 465/565 Cr.3

Neurophysiology

An examination of the nervous system beginning at the cellular level and working up to neuronal systems. Topics covered include the ionic basis of membrane potentials, synaptic communication, organization of functional circuits of neurons, and systems within the brain and/or spinal cord which control learning and memory, vision and motor function. Exploration of these fundamental neurophysiology topics form the basis for understanding a variety of student-selected topics which will be covered later in the semester. Late-semester topics often include higher-order aspects of brain function or challenges to the nervous system, such as the repair of brain or spinal cord injury, degenerative disease states, dyslexia, or consciousness. BIO 467/567 is an optional laboratory course which can be taken concurrently. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 105, CHM 103, and either BIO 312 or NEU 200. Offered Spring.

BIO 466/566 Cr.3

Human Molecular Genetics

A study of the basic principles of heredity in humans. Focus will be on modern molecular techniques used in isolating human disease genes and modes of inheritance of human traits and disorders. Ethical issues in human genetics will also be discussed. This course is taught largely at a graduate level. BIO 468/568 is an optional laboratory course which can be taken concurrently. Prerequisite: BIO 306. Offered Fall.

BIO 467/567 Cr.2

Neurobiology Laboratory Techniques

An introduction to common laboratory techniques in neurobiology, including electrophysiology with invertebrate preparations, mammalian neuronal cell culture, and computational modeling. Students will receive training in techniques while performing classical experiments, then design their own novel experiments and carry them out. Lab. 4. Prerequisite: BIO 312; BIO 465/565 or concurrent enrollment. Offered Spring - Odd Numbered Years.

BIO 468/568 Cr.1

Human Molecular Genetics Lab

A study of the techniques used in doing research in human molecular genetics with a focus on commonly used model organisms in the study of human genetic disorders. Laboratory emphasis is on phenotype analysis, library screening, DNA microarray analysis, gene mapping, and bioinformatics. This course is taught largely at a graduate level. This lab is optional for those enrolled in BIO 466/566. Lab 3. Prerequisite: BIO 306. BIO 466/566 must be taken concurrently. Offered Fall.

BIO 473/573 Cr.3

Marine Biology

Marine biology is an interdisciplinary field that includes elements of geology, physics, chemistry and biology. Students will gain an introduction to how biological organisms deal with varying physical, geological and chemical conditions found in marine ecosystems. Emphasis will be placed on current conservation concerns and marine invertebrate diversity. Prerequisite: BIO 203 and CHM 103. Offered Spring - Odd Numbered Years.

BIO 476/576 Cr.3

Ecosystem Ecology

Ecosystems include the living and non-living components of an environmental system and have emergent properties that can only be understood by examining the system as a whole. This course will examine advanced ecological topics centered around the structure and function of aquatic and terrestrial ecosystems. Topics covered will include the development of the ecosystem concept, ecosystem succession, production/decomposition, energy transfer in food webs, and nutrient cycling. The course will consist of classroom lectures, problem sets, and reading/discussion of relevant literature. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 307 and one semester of chemistry. Offered Spring - Even Numbered Years.

BIO 588 Cr.3

Mammalogy

A study of the diversity and biology of mammals. The origins and evolutionary history of mammals grounds a survey of modern mammalian groups, including their phylogenetic relationships, ecology, adaptations, and complex behaviors. Wisconsin species will be highlighted. Graduate students will assist with instruction on the mammal groups of their choice. Prerequisite: graduate standing in biology. Offered Fall.

BIO 490/590 Cr.1-3

Current Topics in Biology Education

Biological researchers produce new discoveries almost daily. The purpose of this course is to train K-12 pre-service and in-service teachers in the current technologies and theories used in biology and to demonstrate the current approaches to teaching these materials. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit under different topics. Departmental option for pass/fail grading. Pass/Fail grading. Offered Occasionally.

BIO 700 Cr.2

Biology Graduate Program Orientation

First semester course for all biology/microbiology M.S. students. Introduction to program policies and timelines, responsible conduct of research/ethics, reference management tools, and design of a research plan. Students will prepare a grant application. Prerequisite: admitted to a Biology or Microbiology Graduate Program. Offered Fall.

BIO 701 Cr.4

Communication in the Biological Sciences

This course covers in detail the preparation and submission of scientific manuscripts for publication and the presentation of papers at scientific conferences. Topics covered include experimental design, preparation of manuscript sections, figures, and tables; writing with clarity, precision, and word economy; dealing with journal editors and reviewers; reviewing and editing of manuscripts; presentations at scientific conferences; preparation of visual aids; and communicating with the public, the press, and politicians. Lect. 3, Lab 2. Offered Spring.

BIO 713 Cr.2

Physiology of Drug Action

A study of the general principles of pharmacodynamics and pharmacokinetics of drugs in human systems with emphasis on the physiological responses at the cellular and organ levels. Prerequisite: BIO 718 or concurrent enrollment. Offered Occasionally.

BIO/MIC 714 Cr.3

Advanced Genetics

The application of molecular-genetic analysis to problems in modern biology. The course will cover the fundamentals of genetic analysis in both prokaryotic and eukaryotic systems. Assigned readings from current literature will be discussed and evaluated. A variety of topic areas will be considered including ecology, biotechnology, bioremediation, food science, medicine and basic research. Prerequisite: a previous course in genetics, microbial genetics, or molecular biology. (Cross-listed with BIO/MIC; may only earn credit in one department.) Offered Spring - Odd Numbered Years.

BIO 715 Cr.2

Pathophysiology I

A study of diseases of the human central nervous system, pulmonary, cardiovascular, and renal systems with an emphasis on pathophysiology, treatment, and interaction with other organ systems. Prerequisite: BIO 718; BIO 719; admission to the Biology Certified Registered Nurse Anesthetist (CRNA) program. Offered Fall.

BIO 716 Cr.3

Current Topics in Physiology

Consideration of selected topics in physiology such as advanced cellular physiology, membrane and endocrinological physiology, and systemic physiology. Assigned readings will be largely from current literature. Offered Occasionally.

BIO 717 Cr.1

Pathophysiology II

A study of diseases of the human hepatic, gastrointestinal, immune, neuromuscular, and endocrine systems with an emphasis on pathophysiology, treatment, and interaction with other organ systems. Prerequisite: BIO 718; BIO 719; admission to the M.S. Biology Certified Registered Nurse Anesthetist (CRNA) Program. Offered Spring.

BIO 718 Cr.4

Advanced Human Physiology I

An in-depth study of the physiology (including associated anatomic structures) of human organ systems. Covers basic cell physiology, introduction to endocrinology, and the reproductive, nervous, and muscular systems. Prerequisite: B.S. in biology or allied health related field. Offered Fall.

BIO 719 Cr.4

Advanced Human Physiology II

An in-depth study of the physiology (including associated anatomic structures) of human organ systems. Covers the respiratory, cardiovascular, blood, immunologic, digestive and urinary systems. Prerequisite: BIO 718. Offered Spring.

BIO 720 Cr.2

Research in Anesthesia

The student will conduct a critical review and analysis of the primary literature and/or patient records (after IRB approval) in the area of clinical anesthesia or applied physiology. The results and analysis will be summarized and presented in a poster format. Students will be required to present their poster at a professional meeting. Prerequisite: BIO 718; BIO 719; admission to the M.S. Biology Certified Registered Nurse Anesthetist (CRNA) Program. Offered Summer.

BIO/MIC 721 Cr.1-2

Directed Studies

Directed readings or presentation of material not available in formal departmental courses. Repeatable for credit - maximum four between BIO and MIC. (Cross-listed with BIO/MIC.) Consent of instructor. Offered Fall, Spring.

BIO 723 Cr.3

21st Century Mycology

An in-depth examination of contemporary research on fungi, including systematics and evolution, genetics, molecular ecology, biotechnology, bioremediation, physiology, plant or animal pathology, and/or developmental biology, through critical analysis and discussion of primary literature sources. Readings will exemplify major questions, experimental approaches, and methods, and will be analyzed to identify important contemporary research themes, paradigm shifts, and unanswered questions. Prerequisite: BIO 412/512; BIO 306. Offered Occasionally.

BIO 725 Cr.1-3

Forum in Biology

An in-depth examination of selected topics in biology through critical analysis of the primary literature. Participants will be required to read and discuss the experimental design, methods, results and major conclusions of scientific research. Repeatable for credit - maximum six. Variable offerings - check registration schedules. Offered Occasionally.

BIO 726 Cr.1-3

Advanced Laboratory Techniques in Biology

Development of accessory research skills in specialized areas of biology. Repeatable for credit - maximum six. Variable offerings - check registration schedules. Offered Occasionally.

BIO 732 Cr.2

Effective Teaching Strategies for Grad Teaching Assts in the Science Lab

This course aims to improve proficiency of graduate teaching assistants in the science laboratory. Topics covered may include, but are not limited to, students learning styles, lecture and question techniques, design of assessment tools, portfolio development, and grading techniques. Offered Fall.

BIO/MIC 751 Cr.1

Graduate Seminar

Oral presentation and discussion of student-selected topics in biology and microbiology. Repeatable for credit - maximum two. (Cross-listed with BIO/MIC.) Offered Fall, Spring.

BIO 761 Cr.2

Research and Seminar in Biology

Principles of research in biology. As part of the requirements for this course and for the degree, each student must complete an acceptable scientific communication (such as a seminar paper, manuscript, or poster) unless pursuing Plan A and writing a master's thesis. Offered Fall, Spring, Summer.

BIO 779 Cr.1-2

Biology Laboratory Assistant

Allows graduate students to gain experience in assisting with preparation and teaching 300 and 400 level laboratory-based courses in conjunction with the regular instructor. Students will be expected to assist in preparation of course materials, demonstrate proper techniques, and evaluate students' performance. Repeatable for credit - maximum three. Lab. 2-6. Prerequisite: graduate standing. Not applicable to students assisting in 100 or 200 level courses. Consent of instructor. Offered Fall, Spring.

BIO 799 Cr.1-9

Research: Master's Thesis

Independent research on a problem selected for a thesis under the direction of an assigned staff member. For students following Plan A. Repeatable for credit - maximum 15. Maximum of six credits applicable to the M.S. in biology degree. Offered Fall, Spring, Summer.

Business Administration (BUS) - Graduate Courses

Courses

BUS 700 Cr.1-3

Business Forum

Emphasis on the exploration of new developments in business theory and practice. Topics will vary from semester to semester. Repeatable for credit - maximum 12. Prerequisite: admission to the MBA program. Offered Fall, Winter, Spring, Summer.

BUS 710 Cr.2

Statistical Analysis Foundations

This course is designed for students entering the MBA program who have not had sufficient exposure to the subject before. Students will learn the basic concepts, principles and techniques of business statistics. They will be able to implement the techniques on spreadsheets using specially designed templates, and will develop a working knowledge of the subject in order to solve statistical problems in business. The techniques will cover such topics as descriptive statistics, probability distributions, estimation, hypothesis testing and simple regression. This course is an internet MBA foundation course. Prerequisite: college algebra, basic competency in using MS Excel. Offered Fall.

BUS 730 Cr.3

Decision Framing and Decision Making in Complex Environments

This course challenges students to integrate all of the discipline-specific skills developed in the MBA foundation courses within a dynamic decision-making context. The focus of the course will be on the process of problem framing/identification, analysis, and decision-making in complex and uncertain environments. Students develop critical judgments about the efficient and effective application of core knowledge which requires applying the tools of analysis appropriately and extracting useful insights and drawing managerially relevant recommendations from the analysis. Prerequisite: successful completion of the MBA foundation requirements. Offered Fall.

BUS 731 Cr.3

Decision Making and Framing for Managing and Leading People in Organizations

This course aims to integrate discipline-specific knowledge and skills developed in the MBA foundation courses in an effort to enhance managerial decision making abilities under uncertainty. The focus of the course will be on problem analysis and decision making through the lens of managing and leading people in organizations. An interdisciplinary approach is taken by integrating critical knowledge and practices from various business fields such as organizational behavior, human resource management, strategic management, personnel economics, and/or other management-related areas. This course emphasizes the development of critical thinking skills and application of analytical reasoning tools. Extracting useful insights and drawing managerially-relevant recommendations from the analysis are further cornerstones of the course. Prerequisite: successful completion of the MBA foundation requirements. Offered Spring.

BUS 735 Cr.4

Business Decision Making and Research Methodology

This course introduces a variety of quantitative and qualitative methods that support business decision-making and research. These methods range from quantitative procedures like multivariate analysis, simulation, and linear programming to qualitative approaches that use unstructured data collected from interviews and observations. Students will achieve conceptual understanding of the research methods covered in the course and acquired hands-on experience in applying these methods to practical business cases using computer-based tools. Prerequisite: successful completion of the MBA foundation requirements. Offered Fall.

BUS 750 Cr.3

Business Law, Ethics, and Social Responsibility

This course analyzes business decisions in the context of law, ethics, and corporate social responsibility. The course provides a balanced, global, and interdisciplinary approach that examines the complex and diverse principles central to the legal and ethical management of business organizations. The course will examine these issues in domestic and international business decision situations, explore solutions from alternative paradigms of leadership and corporate governance, and incorporate them when formulating organizational tactics and strategy. Offered Spring.

BUS 755 Cr.3

Managing in a Changing Technological Environment

This course examines the challenging issue of managing fast-changing information technology (IT) to support modern business operations and strategic initiatives. While concepts and models of business analysis are introduced through lectures, case analysis is used extensively to study major IT management issues in various organizations, industries, and countries. To bridge the gap between textbooks and the rapidly evolving IT, the course also employs guided research to keep students current on the contemporary IT trends and issues. Offered Spring.

BUS 760 Cr.4

Managing in a Global Environment

This course develops the critical skills and integrated knowledge necessary to function effectively in today's global environment. The course describes how global agreements, changing technologies, global institutions and evolving political patterns affect the conduct of global business. This course develops the ability to frame problems from multiple managerial perspectives - including operational, economic, environmental, ethical, financial, cultural, and technological frames of reference - and to apply sophisticated decision making and coalition building processes to arrive at integrated solutions in a diverse and changing world. This course will typically employ a problem-based approach to the subject area and will seek to integrate, in this approach, such traditional functional disciplines as operations, logistics, marketing, finance, accounting, information systems, and management. This course is offered as a campus course and an Internet course. Offered Fall, Spring, Summer.

BUS 790 Cr.1

MBA Program Assessment

This course consists of a capstone activity which gives students an opportunity to reflect on their MBA experience as a whole-and thus, to have one, final, critical learning experience. Participation in the concluding assessment exercise provides useful feedback regarding the effectiveness of the MBA program. This assessment will be multi-disciplinary and multi-dimensional in its design and execution. When possible, it may involve participants from the broader UWL academic and business communities. Last course before graduation. Prerequisite: completion, or in the final stages, of all other MBA program requirements. Pass/Fail grading. Offered Fall, Spring, Summer.

BUS 799 Cr.1-6

Research: Master's Thesis

This course consists of a directed independent research study to be selected and executed under the direction of a graduate faculty member. Repeatable for credit - maximum six. Prerequisite: successful completion of the MBA core curriculum and written approval of the MBA program director. Completion of a master's thesis is optional within the MBA program. Consent of department. Offered Occasionally.

Chemistry (CHM) - Graduate Courses

Courses

CHM 421/521 Cr.1-3

Advanced Topics in Chemistry

An advanced topic in chemistry based on appropriate prior work in physical chemistry, organic chemistry, inorganic chemistry, and analytical chemistry. Lecture and laboratory will be adapted to the topic being taught. May be repeated for credit when different topic is presented. Repeatable for credit - no maximum. Prerequisite: determined based on topic offered and include a minimum of three semesters of chemistry courses. Offered Occasionally.

CHM 530 Cr.3

Chemistry for Nurse Anesthesia

A graduate-level course that serves as a review of and introduction to chemical principles that are most important in the field of nurse anesthesia practice. Topics include but are not limited to oxidation-reduction chemistry, gas laws, effects of pH on the structure and behavior of drug molecules, primarily in aqueous environments, and metabolism of drugs. Prerequisite: admission to the MS in Biology: Nurse Anesthesia Concentration Program. Offered Spring.

CHM 789 Cr.1-3

Directed Study

Independent study under the direction and supervision of a chemistry faculty member. Repeatable for credit - maximum six. Consent of instructor. Offered Fall, Winter, Spring, Summer.

Clinical Laboratory Science (CLI) - Graduate Courses

Courses

CLI 440/540 Cr.1

Clinical Parasitology

Course covers important parasites of humans, including zoonoses and emerging parasitic diseases. Life cycles, clinical features, infective diagnostic stages will be included in the lecture component. The laboratory will include demonstrations and diagnostic procedures. This course will provide the necessary pre-clinical competencies required for advancement to the clinical education component of the Clinical Laboratory Science Program. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 1, Lab 2. Prerequisites: MIC 230 and admission to the Clinical Lab Science Program, or graduate status. Not open to students who have earned credit in BIO 506. Offered Spring.

CLI 470/570 Cr.8

Diagnostic Microbiology

This course provides an in depth study of the major groups of pathogenic bacteria, fungi, parasites, and viruses and their relationship to human disease. Topics include clinical signs and symptoms of these diseases, proper method of collecting, transporting, and processing appropriate clinical specimens, modes of transmission, and state-of-the-art laboratory methods used for the identification of these pathogens and diagnosis of the diseases they cause. Principles of theory will be applied in rotation. Rotation provides students with opportunities to process a variety of patient specimens and gain experience with a wide variety of state-of-the-art procedures and equipment for the isolation and identification of pathogenic bacteria, fungi, protozoa, helminths, and viruses. Molecular diagnostic procedures will also be employed. Eight-week rotation. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CLI 440; admission to Clinical Lab Science Program; acceptance into a NAACLS accredited clinical lab science program; admission into the Clinical Lab Science BS/Clinical Micro MS dual degree program. Offered Spring.

CLI 480/580 Cr.3

Laboratory Management and Education

A course designed to introduce senior students to skills and knowledge required to manage a clinical laboratory and educate future clinical laboratory scientists. Students will participate with lab managers in activities such as ordering supplies, quality control, quality management and quality improvement. They will be introduced to human resource management, financial management, scheduling issues, instrument selection for profitability and the processes involved in preparing for laboratory inspections and maintaining JCAHO and CAP laboratory accreditation. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: admission to Clinical Lab Science Program; acceptance to a NAACLS accredited internship site; admission into the Clinical Lab Science BS/Clinical Micro MS dual degree program. Offered Fall.

CLI 484/584 Cr.2

Laboratory Management

This course will discuss laboratory management issues along with theory, practical application, and evaluation of principles/models. Development of critical thinking, problem solving, teamwork, communication, professionalism, research, management, and leadership skills will be emphasized. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Spring.

Community Health Education (CHE) - Graduate Courses

Courses

CHE 400/500 Cr.3

Health Policy, Advocacy, and Community Organizations

This course focuses on the process of engaging communities in health education and behavior change programs of various kinds. Several organizing paradigms for fostering healthy communities are examined, and their practical and ethical implications are considered. Skill development for community assessment, constituency-building, and leadership of participatory planning efforts is emphasized. Students are paired with health and human services, health policy and social justice agencies, and coalitions to gain an in-depth knowledge of agenda setting, legislative research, and legislative advocacy in relation to specific legislation being proposed in the Wisconsin state legislature. Course will tie policy theory to real-world practice. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: PH 335; PH 340; CHE 360; CHE 370 or CHE 475 topic "Motivational Interviewing. Offered Fall, Spring.

CHE 405/505 Cr.3

Strategies for Increasing Physical Activity in Communities

This course is designed for community health educators who plan to work with clients and patients in a variety of health and clinical settings. Students will come away with an understanding of how to advance the use of physical activity for the prevention and treatment of chronic disease and other health issues. The course will explore how physical activity improves health, including cardiorespiratory and metabolic diseases, overweight and obesity, musculoskeletal disorders, cancers, and mental health. Data on the prevalence and economic costs are presented to demonstrate the scope of the health issues and the importance of addressing them. Evidence-based strategies for increasing physical activity in individuals and populations using three approaches (informational, behavioral and social, and environmental and policy) will be explored. Strategies for implementing physical activity opportunities in communities will also be addressed. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Spring.

CHE 430/530 Cr.3

Grant Writing and Resource Management

The grant seeking enterprise is studied and applied to community and public health organizations, in areas of perceived community need. Content includes locating and communicating with funding agencies, writing and reviewing grant proposals, analyzing requests for proposals, using technology in grant seeking, and implementing and evaluating grant funded projects. Project planning and administrative competencies are incorporated. Budget planning and grant administration is identified and applied. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CHE 380, CHE 400. Offered Fall, Spring.

CHE 460/560 Cr.1

Medical Terminology for Health Education

Skill development for working with the special language used in clinics, hospitals, and other health agencies. Students in various health fields will learn to use medically related terms in their professional communication. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESS 205 and ESS 206, or BIO 312 and BIO 313. Offered Fall, Spring.

CHE/SHE 475/575 Cr.1-3

Workshop in Health Education

Group study of varying health education topics, community agencies, and educational institutions. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit under different topics - maximum six credits combined CHE/SHE. (Cross-listed with CHE/SHE.) Departmental option for pass/fail grading. Consent of instructor. Offered Occasionally.

CHE 780 Cr.1-8

Community Health Education Preceptorship

Professional experience for graduate students in a variety of community health education and public health settings interacting with diverse populations for a semester or summer session. The candidate works under faculty supervision with a professional in health education and/or health promotion who serves as a mentor. Distinct health educator areas of responsibility are addressed. Repeatable for credit - maximum eight. Consent of department. Offered Fall, Spring, Summer.

Computer Science (CS) - Graduate Courses

Courses

CS 402/502 Cr.3

Web Application Development

This course will give a detailed description of the core concepts and general principles of web application development. The course will cover various protocols, programming languages, scripting languages, data storage and security, layered software architectures, and graphical interface design as they relate to web development. Students will apply these techniques to the development of medium scale web application. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisites: CS 340. Offered Spring.

CS 503 Cr.1-3

Special Topics in Computer Science for Teachers

A special topics course used to introduce K-12 teachers to computer science content and to curricula and pedagogy designed for K-12 students. Not applicable to the Computer Science Program or Master of Software Engineering degree. Prerequisite: current K-12 teacher certification (any discipline). Consent of instructor. Offered Occasionally.

CS 410/510 Cr.3

Free and Open Source Software Development

This course examines all aspects of the Free and Open Source Software movement. The course surveys the various definitions of open source licenses and examples of major free and open source development projects (e.g. the GNU Project, Apache Foundation, Linux). The course also examines the development tools that support developer communities as well as how web-based applications have created the possibility of international development teams. Students will select and contribute to the software development of an existing open source project. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340. Offered Spring - Odd Numbered Years.

CS 418/518 Cr.3

Mobile Application Development

An introduction to the concepts and techniques of application development for mobile devices. The course will examine the design constraints of mobile devices, how mobile applications can leverage external data resources, integration of sensor data and the development environments of the chosen platform (e.g. iOS, Android and others). This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit with different topic - maximum six. Offered Occasionally.

CS 419/519 Cr.1-3

Topics in Computer Science

A special topics course in computer science which will function as a forum for new ideas and testing ground for new courses. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit - maximum six. Consent of instructor. Offered Fall, Spring, Summer.

CS 421/521 Cr.3

Programming Language Concepts

A comparative study of the concepts underlying the design of contemporary high-level programming languages, including imperative, functional, logic and object-oriented paradigms; formal representation of syntax and semantics; control structures; data and procedural abstraction; scope and extent; parallelism and exception handling. This course cannot be taken both at the undergraduate level and at the graduate level. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340; CS 225 or MTH 225. Offered Fall, Spring.

CS 431/531 Cr.3

Introduction to Robotics

This course is a hands-on introduction to the algorithms and techniques required to write robot control software. Topics include the components of mobile robots and robot manipulators, manipulator kinematics, robot task planning, sensing, sensor fusion, visual servoing and robot control concepts. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Spring - Odd Numbered Years.

CS 441/541 Cr.3

Operating System Concepts

The study of the structures and algorithms of operating systems. Operating systems are viewed as managers and controllers of resources such as processors, memory, input and output devices and data. Topics include multiprogramming systems, CPU scheduling, memory management and device management. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340; CS 370. Offered Fall, Spring.

CS 442/542 Cr.3

Structures of Compilers

An extensive study of all phases of the compilation of high level programming languages. Topics include: scanning, parsing (LL and LR), semantics analysis, symbol table organization and manipulation, internal code generation, storage allocation, optimization and object code generation. Students are required to complete a compiler for a small high-level language. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 270; CS 340. Offered Fall, Spring.

CS 443/543 Cr.3

Topics in Operating Systems

An intermediate course in operating systems extending topics introduced in CS 441. Operating systems concepts are studied in-depth. Typically students will study and modify an existing system. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 441. Offered Occasionally.

CS 449/549 Cr.3

Advances in Software Engineering

Introduces advanced topics in Software Engineering. Topics include prototyping models, risk analysis, component-oriented software development, software architectures, software reuse, software metrics and quality analysis. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 741. Offered Fall - Even Numbered Years.

CS 451/551 Cr.3

User Interface Design

This course focuses on the design and implementation of user interfaces. The topics include characteristics of user interfaces, user profiles, user interface design principles, methods and tools for user interface development, evolution of user interfaces, evaluation of user interfaces, and case studies. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340. Offered Fall - Odd Numbered Years.

CS 452/552 Cr.3

Artificial Intelligence

This course is an introduction to the fundamental principles of artificial intelligence. Topics include search strategies, adversarial search, constraint satisfaction, planning and scheduling, logic and inference, accounting for uncertainty, and probabilistic reasoning. Projects include writing a substantial artificial intelligence application program. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340. Offered Fall - Odd Numbered Years.

CS 453/553 Cr.3

Introduction to Theory of Computation

An introduction to the theoretical aspects of computation. The capabilities and limits of several computation models are considered including: partial recursive functions, Turing machines, finite state automata and formal languages. The implications of Church's thesis and unsolvable problems such as the halting problem are discussed. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340. Offered Spring - Even Numbered Years.

CS 454/554 Cr.3

Digital Image Processing

This course introduces the fundamentals of digital image processing techniques with an emphasis on the design and implementation of image processing algorithms. Topics include: color models, point-processing techniques, convolution, fourier domain processing, the discrete cosine transform, image compression methodologies, image restoration and enhancement, sampling and image display. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340. This course cannot be taken both at the undergraduate level and at the graduate level. Offered Fall - Even Numbered Years.

CS 455/555 Cr.3

Fundamentals of Information Security

This course presents the fundamental concepts of information security. Basic policies, techniques and tools for maintaining the security of host computers, information networks and computer software are presented. Topics include encryption, authentication, access control, types of attacks and mitigations, software security, network security protocols, and the concepts of trust, privacy and ethics. Students are expected to compare security policies and techniques, apply concepts using modern tools and techniques, and explore recent security events. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340. Offered Spring.

CS 456/556 Cr.3

Secure Software Development

Traditionally, software engineering has viewed flaws as the inconsistency of software behavior with its functional requirements. Software security problems, however, can occur in software that contains no such flaws but is nonetheless susceptible to external attack. This course examines known reasons for software security vulnerabilities with an emphasis on best practices for their detection and mitigation, along with general principles for engineering software in ways that enhance security. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340. Offered Occasionally.

CS 457/557 Cr.3

Machine Learning

An investigation of programs that can dynamically adapt their behavior. The course focuses on two main ideas: data classification and deciding about actions. In both cases, a learning algorithm is one that improves performance, either by generating a more accurate classifier, or by finding a choice of action that leads to better outcomes. Students will learn various computational and mathematical models and techniques that can be applied to such problems. Topics include regression algorithms, decision trees, Markov processes, neural networks, reinforcement learning algorithms, and deep learning techniques. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340. Offered Fall - Even Numbered Years.

CS 461/561 Cr.3

Introduction to Data Science

This course examines key components of the data science lifecycle, including data collection and cleaning, exploratory data analysis and visualization, and extracting insight via statistical models and machine learning algorithms for regression, classification, and clustering. Algorithmic efficiency and scalability will be emphasized, and techniques for working with big data will be introduced. Students will use a modern programming language (e.g., R, Python) with appropriate packages suitable for data analysis. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340; STAT 245 or CS 351. Offered Alternate Years.

CS 464/564 Cr.3

Advanced Database Management Systems

Advanced topics in database management systems. Topics include the relational data model, relational calculus, embedded SQL programming, database application programming, indexing, system software and storage structures for databases, concurrency control, crash recovery, database administration, parallel and distributed databases, object-oriented databases. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 364. This course cannot be taken for credit both at the undergraduate level and at the graduate level. Offered Spring - Odd Numbered Years.

CS 470/570 Cr.3

Parallel and Distributed Computing

A study of architectures, control software, and applications for parallel and distributed systems. A survey of parallel and distributed architectures including data flow machines, vector processors, shared memory multiprocessors, and message based multiprocessors. Software topics include process communication and synchronization, global state maintenance, negotiation, scheduling, data parallelism, control parallelism, and languages for parallel and distributed computing. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 370. Offered Occasionally.

CS 471/571 Cr.3

Computer Networks

This course is an introduction to data communications, including the electrical properties and software protocols. In addition to presentations of the concepts and techniques used for data communications, several currently used standards and communications networks will be examined. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 270, CS 340. Offered Spring - Even Numbered Years.

CS 472/572 Cr.3

Internet of Things

This course explores the possibilities which are created when everyday things become connected to the internet and how this can create new ways for humans to interact with computation and for computation to enable human activities. This course involves building small, sensor equipped hardware devices and cloud based software systems using various technologies. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340, CS 372. Offered Annually.

CS 475/575 Cr.3

Computer Graphics and Modeling

An introduction to computer graphics in modern computing environments. Topics include geometric transformations, fundamental drawing algorithms, scalable vector graphics (SVG), OpenGL, WebGL, surface shaders, scene graphics, photorealistic rendering, surface mesh data structures, animation and modeling and GPGPU computing. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 340; MTH 207. Offered Fall - Odd Numbered Years.

CS 476/576 Cr.3

Data Visualization

An introduction to visualizing various forms of data (abstract and concrete) using computer graphics. The course will consider both scientific visualization where the data itself determines the spatial representation and information visualization where appropriate spatial representations are imposed on the data. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CS 575. Offered Spring - Even Numbered Years.

CS 741 Cr.3

Software Engineering Principles

This course introduces fundamentals of software engineering and various life cycle models for software development. It focuses on software processes addressing various life cycle activities such as requirements engineering, design, implementation, testing, and maintenance. Object-oriented design using the Unified Modeling Language (UML) will be introduced. Application of software engineering methods to different application domains will be briefly discussed. Prerequisite: CS 340. Offered Fall.

CS 743 Cr.3

Software Verification and Validation

This course explains the need for verification and validation, discusses the methods (formal, informal and diagrammatic) and techniques (prototyping and theoretical proof techniques) that implement verification and validation, and provides hands-on experience to apply these methods and techniques to some simple case studies. Automation of verification and validation methods will also be briefly discussed. Prerequisite: CS 741 or concurrent enrollment. Offered Fall.

CS 744 Cr.3

Software Project Management

This course addresses principles, standards, guidelines and techniques for software project management. Emphasis will be given to modern software development approaches. Topics covered in this courses include people management, work allocation, schedule, project planning, cost estimation, risk management, project deployment, licenses, and ethical and legal issues. Prerequisite: CS 741. Offered Spring.

CS 746 Cr.3

Software Modeling and Analysis

This course introduces various software models, and techniques to analyze software designs using these models. Both diagrammatic and mathematical models will be included. Informal, rigorous, and formal analysis will be covered. Prerequisite: CS 225, CS 340. Offered Spring.

CS 750 Cr.1-3

Topics in Software Engineering

This is a topics course in Software Engineering. New topics will be introduced based on the evolution of Software Engineering research. Some such topics are real-time systems, embedded systems, software for safety-critical applications, software architectures, component-oriented programming, CORBA, COM/DCOM, and CASE (Computer-Aided Software Engineering). Topics may vary each semester. Repeatable for credit - maximum six. Prerequisite: CS 741. Consent of instructor. Offered Occasionally.

CS 751 Cr.1-3

Seminar in Software Engineering

This course is meant for those who want to specialize in one or more areas in Software Engineering such as software reuse, software architectures, software testing, software verification, etc. The workload for the course will include a number of presentations in the class and one or more written reports. Topics of specialization may vary for each semester. Repeatable for credit - maximum six. Prerequisite: CS 741. Consent of instructor. Offered Occasionally.

CS 752 Cr.1-3

Independent Study

This course is meant for those who want to acquire an in-depth knowledge on any Software Engineering topic. Typically, the student may be required to focus on one particular topic and conduct some research on this topic, or to do some software development activities such as analysis, design, implementation or testing. If registered for more than once, a different topic must be chosen each time. Each student is required to submit a report at the end of the term. Repeatable for credit - maximum six. Prerequisite: CS 741. Consent of instructor. Offered Fall, Spring, Summer.

CS 795 Cr.1

Software Development Internship

An academically relevant field experience in government, industry, business, or community agencies. Students must have their internships approved and be advised by the computer science department. Determination of relevancy shall be made by the Career Services Office with the advice and consent of the computer science department. The experience will be supervised closely by the intern's on-site supervisor, by the Career Services Staff, and by the student's faculty internship adviser. Students should contact the Career Services Office. Internship does not count for credit towards the MSE program. Repeatable for credit - maximum two. Prerequisite: Master of Software Engineering graduate student status; nine MSE credits earned; 3.5 or higher GPA. Student must be on their internship work site during the semester for which they are registered for academic credit. Consent of instructor. Pass/Fail grading. Offered Fall, Spring, Summer.

CS 798 Cr.1-6

Software Development Project

A major project that requires a detailed analysis of the problem domain, detailed design, implementation and demonstration. The project will be guided by a graduate CS faculty member. Submission of a written project report is required, followed by an oral examination by the Project Evaluation Committee in the CS department. Repeatable for credit - maximum 12. Maximum of six credits per semester. Prerequisite: project proposal must be approved by the Project Evaluation Committee in the CS department. Pass/Fail grading. Offered Fall, Spring, Summer.

Curriculum and Instruction (CI) - Graduate Courses

Courses

CI 560 Cr.1-2

Washburn Academy

Study of a selected topic in science, mathematics, humanities, and the use of technology in education to improve the topic-related competency of classroom teachers and the acquisition of classroom techniques and applications. Open only to teachers who have been selected to participate in the Washburn Academy, an inservice program sponsored and conducted through joint efforts of CESA-4 and UW-L with the support of grants and the business community. Repeatable for credit - maximum four. A maximum of four credits apply to a graduate degree. Pass/Fail grading. Offered Summer.

CI 570 Cr.1-3

Assessment Alternatives

Course will explore current professional recommendations for assessment and alternative formal and informal classroom assessment strategies. Participants will examine current assessment techniques, record keeping, and reporting systems. Repeatable for credit - maximum six. Prerequisite: teacher certification or one methods course and one educational psychology course. Offered Fall, Winter, Spring, Summer.

CI 590 Cr.3

Teaching Thinking Skills: Theory Into Practice

Learn practical and relevant techniques to foster and develop student thinking at higher levels. The course examines strategies for teaching inductive reasoning, problem solving, critical thinking, analysis and synthesis skills, pattern recognition, and inquiry skills. The course explores the use of multiple intelligences and learning style theories to promote higher level thinking and motivation to learn. Offered Occasionally.

CI 606 Cr.1-2

Teaching Basic Writing Skills

A developmental approach to teaching basic writing skills at the middle/junior and the senior high school levels. The course will examine philosophies, conceptual frameworks, and techniques in teaching writing. Special emphasis will be given to the concept of writing across curricular subject matter areas. Prerequisite: teaching experience. Offered Occasionally.

CI 695 Cr.3

Supervision of Student Teaching

Designed especially for supervising teachers having student teachers or teacher interns under their direction, and for other teachers interested in preparing for teacher supervising responsibilities. Emphasis on objectives of student teaching, orientation and induction, roles and responsibilities of personnel, instructional planning and implementation, process of supervision and post-instructional conferencing. Additional topics are Wisconsin PI34 expectations, the SoE Conceptual Framework, SoE programs, InTASC standards, Teacher Educator Standards, and the edTPA. Repeatable for credit - maximum six. Prerequisite: certification for teaching, a baccalaureate degree, and teaching experience. Consent of instructor. Offered Spring, Summer.

CI 702 Cr.1-3

Health Issues and Resources for Teachers and Other School Professionals

Current health issues and available community resources will be addressed. Representatives from community agencies and the facilitating faculty will clarify the meaning of specific health issues related to the school setting along with various ways to address them through available agency resources. Repeatable for credit - maximum six. (Cross-listed with CI/HED; may only earn credit in one department.) Offered Occasionally.

CI 710 Cr.1-3

Seminar in Middle School Interdisciplinary Teams

The course is designed to help teachers, administrators and other personnel understand the role of teaming in the middle school philosophy, team development, team function, and team effects on delivery of instruction, student development and school organization. Matters of curriculum, program evaluation, student assessment and political dynamics will be included. Prerequisite: teaching certification. Offered Occasionally.

CI/EFN 715 Cr.1-3

Issues and Trends in Education

Current critical issues in education on the state, national and international levels. Repeatable for credit - maximum 30. (Cross-listed with CI/EFN; may only earn 30 credits total in CI and EFN.) Offered Fall, Spring, Summer.

CI 736 Cr.1-3

Individualized Instruction

A focus on needs, practices, and plans for implementing an individualized program of instruction in the public schools. Repeatable for credit - maximum three. Offered Occasionally.

CI 738 Cr.3

Curriculum in the Middle Level/Secondary Schools

Focuses on the historical, political, sociological, and philosophical foundations of curriculum planning and the construction, implementation, and evaluation of middle level/secondary school curriculum. Emphasis on research-supported principles of curriculum development and application of these principles to promote authentic learning and support the concept of a learning community with multiple stakeholders. Prerequisite: teacher certification. Offered Occasionally.

CI 739 Cr.3

Research/Practice in Improving Written Expression

Students will examine current research on the teaching of writing, as well as develop and share practical suggestions for improving students' written expression. Prerequisite: teacher certification or experience. Offered Occasionally.

CI 742 Cr.3

Curriculum in the Elementary School

Historical, political, sociological and philosophical foundations of curriculum planning in elementary schools. Development and implementation of an elementary curriculum emphasizing authentic learning. Prerequisite: teaching experience. Offered Occasionally.

CI/EFN 750 Cr.1-3

Guided Learning

Study of a significant problem, development of a professionally related competency, or acquisition of job-related knowledge through independent study on or off campus under the direction of a faculty member. On occasion, individuals may be formed into classes. Repeatable for credit - maximum 15. (Cross-listed with CI/EFN; may only earn 15 credits total in CI and EFN.) Consent of instructor. Offered Fall, Winter, Spring, Summer.

CI 751 Cr.1-3

Teacher Inquiry: Assessing Classroom Practices

This course will assist experienced educators in focused efforts to improve classroom practices through disciplined inquiry. Participants will identify questions about their own teaching and/or their students' learning, and conduct systematic investigations into those questions. Repeatable for credit - maximum six. Prerequisite: classroom teaching experience. Offered Occasionally.

CI 752 Cr.3

Principles and Problems of Curriculum Development

Theoretical frameworks for curriculum development. Principles and problems pertaining to four standard phases of curriculum construction: analysis, design, implementation, and evaluation. Emphasis is upon developing or revising existing school curriculum. Prerequisite: teaching experience. A graduate curriculum course is highly recommended. Offered Occasionally.

CI/EFN 761 Cr.2

Seminar Paper

Completion of an acceptable seminar paper under the direction of an assigned staff member. Prerequisite: EFN 760 or concurrent enrollment. (Cross-listed with CI/EFN; may only earn credit in one department.) Offered Fall, Winter, Spring, Summer.

CI 770 Cr.1-6

Practicum in Education

Designed to assist teachers as they seek methods and materials to upgrade their teaching skills. Emphasis will be on the implementation of various teaching techniques and will involve on-site supervision by the college instructor. Repeatable for credit - maximum six. Offered Occasionally.

CI 780 Cr.3

Administration and Organization of Public Education

Introduction to the study of educational administration with emphasis upon the nature of administrative theory and process. Study of behavior patterns and decision-making process of successful administrators in various settings. Offered Occasionally.

CI/RDG 781 Cr.3

Educational Supervision

Exploration of the nature and scope of responsibilities of areas in educational supervision. Special emphasis will be given to the improvement of instruction and curriculum development through the study of interpersonal relations. (Cross-listed with EDM/RDG; may only earn credit in one department.) Offered Summer.

CI/EDM/EFN/RDG 796 Cr.1-2

Independent Study

Directed readings or presentation of material not available in formal departmental courses under the supervision of an assigned staff member. Repeatable for credit - maximum four. (Cross-listed with CI/EDM/EFN/RDG; may only earn four credits total in CI, EFN, EDM, and RDG.) Offered Fall, Winter, Spring, Summer.

CI/EFN 799 Cr.1-6

Research: Master's Thesis

Completion of an acceptable thesis under the direction of an assigned staff member. Repeatable for credit - maximum six. Prerequisite: EFN 760 or concurrent enrollment. (Cross-listed with CI/EFN; may only earn credit in one department.) Offered Fall, Winter, Spring, Summer.

Cybersecurity (CYB) - Graduate Courses

Courses

CYB 700 Cr.3

Fundamentals of Cybersecurity

This course introduces fundamental concepts and design principles in cybersecurity. Students will understand what, why, and how to protect in the cyberworld. Topics include CIA (confidentiality, integrity, and availability), threats, attacks, defense, least privilege, access control and password management, security policies, critical controls, incident-handling and contingency planning, risk assessment and management. Consent of department. Offered Fall, Spring, Summer.

CYB 703 Cr.3

Network Security

This course examines network architectures, threats and attack surfaces exploited by these threats. Students will look at network traffic inspection, common attacks and defensive techniques like encryption, network segmentation, firewalls, application proxies, honeypots, DMZs, monitoring networks using intrusion detection and intrusion prevention systems, and network access control. Consent of department. Offered Fall, Spring, Summer.

CYB 705 Cr.3

Sociological Aspects of Cybersecurity

This course presents the principles of applied sociology that account for the human factors in security systems. Topics include an examination of the human role in cybersecurity, the role of security in the context of an organization, and a special focus on the development and implementation of cybersecurity policies. Consent of department. Offered Fall, Spring, Summer.

CYB 707 Cr.3

Cybersecurity Program Planning and Implementation

This course provides instruction on the process used to develop and maintain appropriate security levels for an organization with a focus on implementing a comprehensive security program, a documented set of security policies, procedures, guidelines, and standards. Topics include security planning, strategies, controls, and metrics for measuring the effectiveness. Prerequisite: CYB 700. Consent of department. Offered Fall, Spring, Summer.

CYB 710 Cr.3

Introduction to Cryptography

This course introduces the fundamentals of applied cryptography, including encryption and decryption, symmetric and asymmetric systems, pseudorandom functions, block ciphers, hash functions, common attacks, digital signatures, key exchange, message authentication and public key cryptography. It covers implementation of cryptographic systems in an approved programming language, and survey of relevant mathematical concepts, including elementary number theory. Consent of department. Offered Fall, Spring, Summer.

CYB 715 Cr.3

Managing Security Risk

This course covers risk management processes and tools, risk assessment and analysis models, economic and control implications, risk measurement, and the ethics of risk. Students will communicate the technical and management-aspects of risk, based on research of their chosen industry, related regulation, recent industry reports, and risk implications to organizations, individuals and the nation. Consent of department. Offered Fall, Spring, Summer.

CYB 720 Cr.3

Communication in Cybersecurity

Students research, organize, and present technical information to audiences with varying goals and technical needs. There will be an emphasis on ethics, critical thinking, listening skills, and feedback to develop effective messages utilizing verbal and nonverbal communication strategies and visual aids. Individual and group presentations and projects will emulate professional scenarios in cybersecurity. Consent of department. Offered Fall, Spring, Summer.

CYB 725 Cr.3

Computer Forensics and Investigations

This course provides instruction on the investigative and forensics processes of digital evidence with a focus on identifying indicators of compromise, the use of common forensics tools, and the preservation of forensics tools. Topics include forensics iconology, and the analysis of disk, memory, chip-off, mobile device, and OS artifacts. Prerequisite: CYB 700, CYB 703. Consent of department. Offered Fall, Spring, Summer.

CYB 730 Cr.3

Computer Criminology

This course is a primer on modern criminology with specific attention to the aspects of technology that facilitate criminal behaviors. Topics include computer crime laws, criminological theories of computer crime, court room and evidentiary procedure, idiographic and nomothetic digital profiling, computer crime victimology, habit/authorship attribution, stylometry, and case linkage analysis. Consent of department. Offered Fall, Spring, Summer.

CYB 735 Cr.3

Network Forensics

This course covers protocol analysis, identification of malicious behavior in systems, and forensic investigations through event log aggregation, correlation and analysis. Students will analyze clips of wired and wireless network protocol analysis to discern methods of attacks and malicious activities. Prerequisite: CYB 703. Consent of department. Offered Fall, Spring, Summer.

CYB 740 Cr.3

Incident Response and Remediation

Students will learn about the phases of an incident response system, and the use of IDS and forensics, dealing with false alarms and the remediation process to minimize business impact, plan business continuity, and work with law enforcement, auditors, insurance, and compliance in how to prevent future incidents. Prerequisite: CYB 700, CYB 703, CYB 705, CYB 707, CYB 715, and CYB 720. Consent of department. Offered Fall, Spring, Summer.

CYB 745 Cr.3

Secure Operating Systems

This course covers operating systems security infrastructure. Topics include, for a given operating system (Windows/Linux), updates and patches, access controls and account management, configuration management, hardening and securing services, and the use of scripting languages to automate security management. Additional topics may include auditing and forensics, virtualization and cloud computing. Consent of department. Offered Fall, Spring, Summer.

CYB 750 Cr.3

Offensive Security and Threat Management

This course covers active defenses such as penetration testing, log management, hacking, threat management and system posturing. Students completing this course will have an understanding of, and the ability to preemptively secure computer and network resources by utilizing information about threats, actors and attack vectors and the ethics behind using this data. Prerequisite: CYB 700, CYB 703. Consent of department. Offered Fall, Spring, Summer.

CYB 755 Cr.3

Security Administration

This course covers the policy and governance aspects of security. Topics include application of security policies, standards, procedures and guidelines to administration of IT and communications, assessment of compliance including contractual, legal, industry standard, privacy and regulatory requirements, and implementation of security audits and assessment of security performance and security policy efficacy. Prerequisite: CYB 700, CYB 703, CYB 705, CYB 707, CYB 715, and CYB 720. Consent of department. Offered Fall, Spring, Summer.

CYB 760 Cr.3

Cybersecurity Leadership and Team Dynamics

This course focuses on leadership best practices and the interpersonal processes and structural characteristics that influence the effectiveness of teams. Emphasis will be placed on leadership models, principles of team building, group dynamics, problem solving, and crisis management in cybersecurity issues. Course will include case studies of modern security incidents. Consent of department. Offered Fall, Spring, Summer.

CYB 765 Cr.3

Cybersecurity Management

This course covers the management of cybersecurity policies and strategies at the organizational, national, and transnational levels. It examines the implications of key domestic and international regulations and changes in information technology and communications on security operations. It also includes the development of organizational security preparation, processes, and responses, and developing a disaster recovery program. Prerequisite: CYB 700, CYB 703, CYB 705, CYB 707, CYB 715, and CYB 720. Consent of department. Offered Fall, Spring, Summer.

CYB 770 Cr.3

Security Architecture

This course focuses on security architectures for the protection of information systems and data. Students completing this course can identify potential vulnerabilities in system architectures and design secure architectures. Topics include common enterprise and security architectures and their key design elements, such as secure cloud computing and virtualization infrastructures. Prerequisite: CYB 703. Consent of department. Offered Fall, Spring, Summer.

CYB 775 Cr.3

Applied Cryptography

This course provides an in-depth study of modern cryptography. Topics include public key and private key cryptography, types of attacks, cryptanalysis, perfect secrecy, hashing, digital signatures, virtual private networks, and quantum key cryptography. Topics from number theory and discrete probability necessary for understanding current cryptosystems and their security will be covered. Prerequisite: CYB 710. Consent of department. Offered Fall, Spring, Summer.

CYB 780 Cr.3

Software Security

This course covers the foundations of engineering secure applications, including techniques used to engineer secure software and assess the security of applications. Topics include exploiting web vulnerabilities, secure development processes, implementing security features such as secure data storage and transmission, threat modeling, security requirements, code analysis, and penetration testing. Consent of department. Offered Fall, Spring, Summer.

CYB 785 Cr.3

Cyber Physical System Security

This course covers the fundamentals and techniques to design and implement cyber physical systems. Topics include the architecture of cyber physical systems, exploiting software vulnerabilities, secure coding, microservices security, cloud services security, reverse engineering, security assessment of cyber physical systems, and data analytics for security. Prerequisite: CYB 775. Consent of department. Offered Fall, Spring, Summer.

CYB 789 Cr.1

Cybersecurity Pre-Capstone

This course prepares students for the capstone experience. Drawing on skills learned, students will submit a written project proposal - with organization, timeline, learning objectives, and specific deliverables identified – for faculty approval. This course is a prerequisite for the capstone course. Prerequisite: CYB 700, CYB 703, CYB 705, CYB 707, CYB 710, CYB 715, CYB 720. Consent of department. Offered Fall, Spring, Summer.

CYB 790 Cr.3

Cybersecurity Capstone

Students present the project identified in capstone preparation and submit a written report plus oral presentation to both faculty and host organization. Students will be assessed on clarity and content of their written report and presentation. Prerequisite: CYB 789. Consent of department. Offered Fall, Spring, Summer.

Data Science (DS) - Graduate Courses

Courses

DS 700 Cr.3

Foundations of Data Science

This course provides an introduction to data science and highlights its importance in business decision making. It provides an overview of commonly used data science tools along with spreadsheets, relational databases, statistics and programming assignments to lay the foundation for data science applications. Prerequisite: admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 705 Cr.3

Statistical Methods

Statistical methods and inference procedures will be presented in this course with an emphasis on applications, computer implementation, and interpretation of results. Topics include simple and multiple regression, model selection, correlation, moderation/interaction analysis, logistic regression, chi-square test, ANOVA, Kruskal-Wallis test, MANOVA, factor analysis, and canonical correlation analysis. Prerequisite: admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 710 Cr.3

Programming for Data Science

Introduction to programming languages and packages used in data science. Prerequisite: admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 715 Cr.3

Data Warehousing

Introduce the concepts and techniques to work with and reason about subject-oriented, integrated, time-variant, and nonvolatile collections of data in support of management's decision-making process. Prerequisite: admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 730 Cr.3

Big Data: High Performance Computing

This course will teach students how to process large datasets efficiently. Students will be introduced to non-relational databases. Students will learn algorithms that allow for the distributed processing of large datasets across clusters. This course will teach students how to process large datasets efficiently. Prerequisite: DS 710 or concurrent enrollment; admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 735 Cr.3

Communicating about Data

This course will prepare students to master technical, informational and persuasive communication to meet organizational goals. Technical communication topics include a study of the nature, structure and interpretation of data. Informational communication topics include data visualization and design of data for understanding and action. Persuasive communication topics include the study of written, verbal and nonverbal approaches to influencing decision makers. Prerequisite: admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 740 Cr.3

Data Mining and Machine Learning

This course covers data mining and machine learning methods and procedures for diagnostic and predictive analytics. Topics include association rules, clustering algorithms, tools for classification, and ensemble methods. Computer implementation and applications will be emphasized. Prerequisite: DS 705, DS 710; admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 745 Cr.3

Visualization and Unstructured Data Analysis

This course covers two aspects of data analytics. First, it teaches techniques to generate visualizations appropriate to the audience type, task, and data. Second, it teaches methods and techniques for analyzing unstructured data - including text mining, web text mining and social network analysis. Prerequisite: DS 700, DS 705, DS 710; DS 740 or concurrent enrollment; admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 760 Cr.3

Ethics of Data Science

This course will focus on the investigation of ethical issues in computer science that ultimately also pertains to data science, including privacy, plagiarism, intellectual property rights, piracy, security, confidentiality and many other issues. Our study of these issues will begin broadly, with a look at ethical issues in computer science at large. We will then make inferences to the narrower field of data science. We will consider ethical arguments and positions, the quality and integrity of decisions and inferences based on data, and how important cases and laws have shaped the legality, if not the morality, of data science related computing. Case studies will be used to investigate issues. Prerequisite: DS 700 or DS 780. Concurrent enrollment in either course is allowed. Admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 775 Cr.3

Prescriptive Analytics

This course covers procedures and techniques for using data to inform the decision-making process. Topics include optimization, decision analysis, game theory, and simulation. Case studies and applications will be emphasized. Prerequisite: DS 705; admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 780 Cr.3

Data Science and Strategic Decision Making

This course examines how data science relates to developing strategies for business organizations. The emphasis is on obtaining decision-making value from an organization's data assets. The course will investigate the use of data science findings to develop solutions to competitive business challenges. Case studies will be reviewed to examine how data science methods can support business decision-making. A range of methods the data scientist can use to get people within the organization onboard with data science projects will be reviewed. The future of data science as a decision-making tool will be explored. Prerequisite: admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 785 Cr.3

Capstone

Capstone course in which students will develop and execute a project involving real-world data. Projects will include: formulation of a question to be answered by the data; collection, cleaning and processing of data; choosing and applying a suitable model and/or analytic method to the problem; and communicating the results to a non-technical audience. Prerequisite: DS 700, DS 705, DS 710, DS 715, DS 730, DS 735, DS 740, DS 745, DS 775; admission to MS in Data Science. Consent of department. Offered Fall, Spring.

Earth Science (ESC) - Graduate Courses

Courses

ESC/GEO 405/505 Cr.3

Geographic Information System and Science II

Building upon lessons learned in ESC/GEO 305, this course focuses on geospatial analysis and database development. The course includes both theoretical and applied aspects of GIS analysis. GIS software, with an emphasis on ArcGIS, will be used to explore geographic questions. Hands-on exercises pertaining to environmental science, natural resource management, business, and urban planning will be used to complement lecture material. Topics will include data organization, database structure, input and output, data quality, and geographic analysis of spatial and attribute data. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 305; STAT 145. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Fall, Spring.

ESC/GEO 410/510 Cr.3

Geospatial Field Methods

This course covers fundamental concepts of geospatial data collection, analysis, and representation. Students gain hands-on experience using geospatial technology at field sites in the La Crosse area. It includes reconnaissance and surveys using current methods, including GPS, total stations, sonar, and unmanned aerial systems; and practical integration of field data into a geographic information system. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 405/505 or concurrent enrollment. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Fall.

ESC/GEO 412/512 Cr.3

Geospatial Applications of Unmanned Aerial Systems

This course provides an introduction to the Unmanned Aerial System (UAS) from the geospatial perspective which includes: UAS sensors and platforms, civilian and remote sensing applications, sensors calibration and boresighting, operational requirements, data processing using specialized software to derive products such as ortho-rectified imagery, multispectral imagery, digital terrain and surface models, current rules and regulations governing owning and operating a UAS in the United States. Students in this course will get hands-on experience of UAS mission planning and flying with both fixed-wing and multi-rotor UAS for environmental data collection outside the classroom. The course content will also prepare the students for the remote pilot exam conducted by the FAA. They will complete hands-on lab exercises involving UAS data pre-processing and analysis to generate geospatial products and assess their accuracy. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 305. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

ESC/GEO 415/515 Cr.3

Remote Sensing of the Environment I

This course is an introduction to remote sensing, emphasizing satellite multispectral observations of the earth applied to such fields as agriculture, forestry, water resources, urban and regional planning, and environmental assessment. Upper Midwest and selected areas worldwide are explored with visual and digital image processing techniques. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 305. (Cross listed with ESC/GEO, may only earn credit in one department.) Offered Fall.

ESC/GEO 418/518 Cr.3

Map Design and Geovisualization

In this course students will learn about the process of making maps, how to acquire and appropriately manipulate spatial data, and how to design clear, compelling, and beautiful maps. In addition to the key theories underlying the cartographic discipline, students will learn technical skills to enhance their other research interests and make them far more competitive on the job market once they graduate. Students will apply their knowledge about map design using cutting edge software. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 305. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Fall.

ESC/GEO 422/522 Cr.3

Meteorology

Atmospheric concepts and processes of the earth's weather are covered. Principles and laws which govern the behavior of the atmosphere are investigated, including energy exchange between the earth and the atmosphere, forces governing atmospheric motion, atmospheric moisture and stability, condensation and precipitation processes, air masses and cyclogenesis, thunderstorm and tornado development, and hurricanes. Surface and upper-air charts, synoptic patterns, thermodynamic charts, radar and satellite images, and weather patterns are analyzed. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 221. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring.

ESC/GEO 425/525 Cr.3

Biogeography

A systematic analysis of the geographic distribution of organisms from historical, ecological and regional perspectives. Emphasis is placed on the principles and the methods of biogeography. Special reference is made to biogeographic regions, the distribution of organisms in space and time, and ecological biogeography. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 101 or ESC 211. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Fall - Odd Numbered Years.

ESC/GEO 426/526 Cr.4

Soil Systems

A comprehensive study of soils around the world and the factors and processes that drive their formation and dynamic evolution. Emphasis is placed on soil morphology, formation, and biogeochemical influences within the soil environment. A one-credit lab section is devoted to the hands-on exploration and study of soils through laboratory and field exercises. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 3, Lab 2. Prerequisite: ESC 222. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Alternate Years.

ESC/GEO 527 Cr.3

Water Resources

A study of physical water resources systems and management and utilization of water as a resource. Class activities will include seminars on critical water resource management issues and hands-on analysis of pertinent data, including exercises in Geographic Information Systems. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 101. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring - Odd Numbered Years.

ESC/GEO 528 Cr.3

Past Environmental Change

An overview of the study of environmental change during the Quaternary. Approaches used to understand past climatic conditions and effects on terrestrial and marine ecosystems at global, regional and local scales will be explored, as will physical, geochemical and biological methods associated with continuous and depositional environments. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 221 and ESC 222. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Alternate Years.

ESC/GEO 430/530 Cr.3

River Systems

A systematic study of the interactions between flowing water and surface landforms. Emphasis is placed on watershed and stream development, sediment transport and storage, flow frequency analysis, and applications of fluvial principles to river management and stream restoration. Class activities will include field exercises in the La Crosse region, mathematical analysis of hydrologic variables, and spatial analysis with Geographic Information Systems. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 222. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring - Odd Numbered Years.

ESC/GEO 440/540 Cr.3

Geographic Interpretation of Aerial Photographs

Systematic applications of aerial photographs in the interpretation and analysis of geographic problems. Emphasis is placed on digital photograph interpretation within a geographic information system. Topics include urban and rural land use, natural resource, and environmental assessment. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 405/505. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

ESC/GEO 445/545 Cr.3

Remote Sensing of the Environment II

This course covers advanced techniques of digital satellite and airborne image analysis and processing, emphasizing theory and applications in natural resource, land use and environmental assessment. It includes practical approaches to integrating imagery with geographic information systems area for spatial analyses and decision making. Data acquisition, integrity, manipulation, formatting, storage, and retrieval are also examined. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 415/515. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring.

ESC/GEO 455/555 Cr.3

Web Mapping

In this course, students will learn how to produce and design interactive Web maps for communication. Web maps take many forms and they are continually changing. Thus, the objective of this course is to do two things: (1) develops proficiency in the scripting languages and tools most frequently used to design and create these maps; and (2) teaches the theory and concepts underlying good Web map design so that as the technologies change in the future students will still be able to design effective Web maps. At the end of this course, students will be able to design a Web map from scratch. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 305; ESC/GEO 418/518. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring.

ESC/GEO 460/560 Cr.3

Environmental Hazards

Environmental processes are investigated in light of the hazards they might pose for development and how they may be avoided, mitigated and managed. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 221 or ESC 222. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Fall - Even Numbered Years.

ESC/GEO 465/565 Cr.3

Scripting in GIS

This course will teach students how to customize within GIS software using scripting and programming tools commonly used in GIS discipline. Student will learn about the conceptual and practical aspects of programming for geographic applications using Python, a free open-source scripting language. Python is well integrated with all the major GIS softwares, and a very popular language among GIS professionals. The course focuses on solving geographic problems by modifying and automating generic GIS software through programming. In this course, students will learn general and transferable scripting skills, and GIS-specific applications, including the basics of writing and modifying scripts, batch processing and automation of repetitive geoprocessing tasks, and designing complex geoprocessing tasks. The skills learned in this course are equally applicable in scientific research, the public sector, and in industry. Students taking this course must be familiar with geographic data structures, basic GIS concepts, and demonstrate basic understanding of geospatial analysis. No prior programming experience is required or expected. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 405/505. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

ESC/GEO 470/570 Cr.1-3

Special Topics in Geography/Earth Science

Specifically selected topics or skills which may be designed for the interest of special groups will be offered with formalized instruction and methodology appropriate to geography and/or earth science. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite may be required at the discretion of the department. Repeatable for credit - maximum six. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

ESC/GEO 476/576 Cr.1-3

Geography/Earth Science Topics for Teachers

Selected topics in geography and/or earth science pertinent to applications in the teachers' classrooms. Courses are designed to meet the needs of teachers so that they may implement the course material into their classroom teaching. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

ESC/GEO 485/585 Cr.3

Geographic Information System and Science III

This course covers advanced theories in geographic information systems database structures, advanced applications, database transfers, database management, use of census data, spatial analysis, and decision-making. There will be an emphasis on ARCGIS and its applications and integration of GIS with remote sensing and GPS. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 405/505; STAT 145. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring.

ESC/GEO 488/588 Cr.3

Spatial Data Analysis

This course covers the theory, methods, and techniques for quantitative analysis of spatial data. Students will learn and employ basic quantitative techniques for describing, modeling, and analyzing spatial data. This course explores point pattern analysis, methods for continuous data, and spatial regression. Focus will be on the interpretation and the application of spatial data analysis techniques to address geographic problems. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: GEO/ESC 405/505 or concurrent enrollment; STAT 145. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Alternate Years.

ESC/GEO 490/590 Cr.2-3

Independent Study

Individual readings and investigation of selected problems in geography. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Registration with consent of regular advisor, instructor, department chairperson, and the dean of the college in which the student is enrolled. Repeatable for credit - maximum six. Maximum three credits from any instructor. (Cross-listed with ESC/GEO; may only earn credit in one department.) Consent of instructor. Offered Fall, Winter, Spring, Summer.

ESC/GEO 495/595 Cr.1-3

Seminar in Geography/Earth Science

Investigation into various topics in geography or the earth sciences. Topics will be offered at intervals with a specific title assigned to each. Check schedule of classes for the next offered topic. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit - maximum six. Prerequisite: two semesters of geography and/or earth science. Additional prerequisites may be required by the instructor. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

ESC/GEO 790 Cr.1-3

Directed Study

Individual readings and investigations of selected topics in geography and earth science. Repeatable for credit – maximum three. Prerequisite: permission of the instructor and the department chair. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

Economics (ECO) - Graduate Courses

Courses

ECO 703 Cr.1

Foundations of Microeconomics

Introduction to microeconomics analysis with an emphasis on effective decision-making. Topics include: supply and demand, profit maximization, pricing strategies, market structures, antitrust regulation, and strategic positioning for competitive advantage. Prerequisite: This course is an internet MBA foundation course. Offered Occasionally.

ECO 704 Cr.1

Foundations of Macroeconomics

Introduction to macroeconomic analysis with an emphasis on effective decision-making. Topics include: monetary policy, fiscal policy, and the economics of international trade and exchange rates. This course is an internet MBA foundation course. Prerequisite: ECO 703 or a previous economics course. Offered Occasionally.

ECO 712 Cr.3

Business Fluctuations

An introduction to the dynamic analysis of the aggregate economy. Topics include economic models and dynamic analysis, production and economic growth, consumption and saving, government activity and its financing, money and the price level, unemployment, and aggregate forecasting. Offered Occasionally.

ECO 797 Cr.1-3

Independent Study

Individual reading or research under the guidance of a staff member. Registration with the consent of the student's regular adviser, the instructor and the department chairperson. Approval form available in the office of the Dean of the College of Business Administration. Form must be completed prior to registration. Repeatable for credit - maximum three. Prerequisite: admission to the MBA Program with a minimum 3.50 cum GPA; completed a minimum of 21 credits in the MBA Program. Maximum of three credits of independent study in any combination of ECO 797, FIN 797, MGT 797 and MKT 797. Consent of instructor. Offered Fall, Winter, Spring, Summer.

Education Learning Community (EDU) - Graduate Courses

Courses

EDU 601 Cr.1

Learning in Community I: Introduction

In this first of four, students will be introduced to the concept of learning in community. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: adult learning theory, communication, community building, facilitation, personality typologies, theories of community development, and values. Repeatable for credit - maximum two. Prerequisite: admission to MEPD or MSSED Program. Offered Fall, Spring, Summer.

EDU 602 Cr.1

Learning in Community II: Exploration

In this second course of four, students will explore the concept of learning in community. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: classroom climate, communication, community building, facilitation, personality typologies, and values. Prerequisite: EDU 601; admission to MEPD or MSSED Program. Offered Fall, Spring, Summer.

EDU 611 Cr.1

Technology in Education I: Introduction

In this first course of four, students will be introduced to the concept of technology in education. Coursework requirements include application to the workplace setting and communication via technology. The key concept of this course is an online course management system. Prerequisite: admission to MEPD or MSSED Program. Offered Fall, Spring, Summer.

EDU 612 Cr.1

Technology in Education II: Exploration

In this second course of four, students will explore the concept of technology in education. Course requirements include application to the workplace setting and communication via technology. The key concepts of this course include the role of technology in education and exploring distance library services. Prerequisite: EDU 611; admission to MEPD or MSSED Program. Offered Fall, Spring, Summer.

EDU 621 Cr.1

Best Practice Pedagogy I: Introduction

In this first course of four, students will be introduced to best practice pedagogy. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: teaching standards: National Boards Propositions, Wisconsin Teaching Standards; academic content area/grade level/workplace standards; and constructivism. Prerequisite: admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 622 Cr.1

Best Practice Pedagogy II: Exploration

In this second course of four, students will explore best practice pedagogy. Coursework requirements include application to the workplace setting and communication via technology. In addition to continuing the concepts from "Best Practice Pedagogy I," the key concepts of this course include: best practice theories and differentiated instruction. Prerequisite: EDU 621; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 631 Cr.1

Curriculum Development and Assessment I: Introduction

In this first course of four, students will be introduced to curriculum development and assessment. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: academic content standards, teaching standards: National Board Propositions and Wisconsin Teaching Standards, and assessment theories. Prerequisite: admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 632 Cr.1

Curriculum Development and Assessment II: Exploration

In this second course of four, students will explore curriculum development and assessment. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: alternative assessment, authentic assessment, assessment: formal and informal, assessment: formative and summative, current best practice assessment strategies, and research-based best practice assessment strategies. Prerequisite: EDU 631; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 641 Cr.1-2

Educational Research I: Introduction

In this first course of four, students will be introduced to the concept of educational research. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: professional writing according to American Psychological Association (APA), research skills, defining the research question, educational research methods, and data collection methods. Prerequisite: admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 642 Cr.2

Educational Research II: Exploration

In this second course of four, students will explore and design educational research. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: professional writing according to the American Psychological Association (APA), action research design, action research proposal, and institutional review board. Prerequisite: EDU 641; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 650 Cr.2

Practicum I in Education

This first practicum experience will involve observation and reflection of the classroom, teacher, and learners. This will include an introduction to the teaching profession in the U.S. and participation in best practice activities. The learner will share best practices and pedagogy of their home nation with the PK-12 PLC and their ME-PD Learning Community. To be taken concurrently with the first full semester ME-PD Learning Community load. May not be taken concurrently with any other clinical experience course. This course is waived for licensed teachers and other educational professionals in the United States. This course includes a field component and a seminar. Prerequisite: admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 651 Cr.1

Democracy, Diversity and Social Justice in Education I: Introduction

In this first course of four, students will be introduced to the concepts of democracy, diversity, and social justice in education. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: diversity issues, privilege and power, language and communication, and democracy. Prerequisite: admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 652 Cr.1

Democracy, Diversity and Social Justice in Education II: Exploration

In this second course of four, students will explore the concepts of democracy, diversity, and social justice in education. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: diversity issues, harassment and bullying, and democracy in schools. Prerequisite: EDU 651; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 661 Cr.1

Teacher Leadership I: Introduction

In this first course of four, students will be introduced to the concept of teacher leadership. Course requirements include application to the workplace setting and communication via technology. The key concepts of this course include: teaching and academic content standards, baselines, professional history, professional visioning, and reflective practice. Prerequisite: admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 662 Cr.1

Teacher Leadership II: Exploration

In this second course of four, students will explore the concept of teacher leadership. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: professional development plan and portfolio, communication skills, facilitation skills, reflective practice, and current trends in educational issues. Repeatable for credit - maximum two. Prerequisite: EDU 661; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 703 Cr.1

Learning in Community III: Integration

In this third course of four, students will integrate the concept of learning in community. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: communication, community building, facilitation skills, personality typologies, and values. Prerequisite: EDU 601; EDU 602; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 704 Cr.1

Learning in Community IV: Action

In this fourth course of four, students will take action with regard to learning in community. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: communication, community building, facilitation skills, and values. Prerequisite: EDU 601; EDU 602; EDU 703; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 713 Cr.1

Technology in Education III: Integration

In this third of four courses, students will integrate technology in education. Coursework requirements include application to the workplace setting and communication via technology. In addition to continuing the concepts from "Technology in Education" I & II, the key concepts for this course include: information technology, instructional technology, and technology tools for the action research process. Prerequisite: EDU 611; EDU 612; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 714 Cr.1

Technology in Education IV: Action

In this fourth course of four, students will take action with regard to technology in education. Coursework requirements include application to the workplace setting and communication via technology. In addition to continuing the concepts from "Technology in Education" I, II, & III, the key concepts of this course include: informational technology, instructional technology, and technology safety. Prerequisite: EDU 611, EDU 612, EDU 713; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 715 Cr.2

Common Core Assessment in English Language Arts Elementary

In this course, students will examine their current practices of assessment in regard to the English Language Arts (ELA) Common Core State Standards (CCSS). After unpacking the ELA Standards for their grade levels, students will develop a practitioner's assessment toolkit with both instruction and assessment in the classroom. Response to Intervention and differentiation models will be examined in depth in order to ensure success for all students. Not applicable to a master's degree in MEPD initial certification, reading, or special education. Prerequisite: admission to English Language Arts Elementary Certificate Program or approval from Institute for Professional Studies in Education (IPSE). Offered Fall, Spring, Summer.

EDU 716 Cr.2

Effective Communication Through Language

Students will examine research and best practices to support the Speaking and Listening Strand of the English Language Arts (ELA) Common Core State Standards (CCSS). Students will define what makes up a classroom community, the importance of building a classroom community, and how to begin the construction process. Students will then examine strategies to help elementary students interact appropriately with adults and peers and how their own students can be doing grade level appropriate presentations. Students in this class will be working on developing lessons and strategies that will help their own students comprehend and interact with the spoken word. Not applicable to a master's degree in MEPD initial certification, reading, or special education. Prerequisite: admission to English Language Arts Elementary Certificate Program or approval from Institute for Professional Studies in Education (IPSE). Offered Fall, Spring, Summer.

EDU 717 Cr.2

Foundation of Literacy for Professional Educators

In this course, students will gain knowledge of the foundational skills needed to implement the English Language Arts (ELA) Common Core. Students will unpack the standards for their specific grade level and/or curricular area. In order to strengthen their professional practice, students will collaborate with peers to refine their teaching practice to embody concepts of print, phonological awareness, phonics and word recognition, and fluency. The assignments and assessments will be directly applicable to the learner's professional practice. Not applicable to a master's degree in MEPD initial certification, reading, or special education. Prerequisite: admission to English Language Arts Elementary Certificate Program or approval from Institute for Professional Studies in Education (IPSE). Offered Fall, Spring, Summer.

EDU 718 Cr.2

Writing and Language Exploration

Students will examine research and best practices to support the Writing and Language strands of the English Language Arts (ELA) Common Core State Standards (CCSS). Students will: 1) unpack writing and language standards for their specific grade level; 2) develop a year long plan for writing and language instruction; 3) participate as writers to become comfortable in the three types of writing required by the common core; 4) collaborate with peers to practice and refine their instruction; and 5) implement lessons and strategies in their professional practice to improve student achievement. Not applicable to a master's degree in MEPD initial certification, reading, or special education. Prerequisite: admission to English Language Arts Elementary Certificate Program or approval from Institute for Professional Studies in Education (IPSE). Offered Fall, Spring, Summer.

EDU 719 Cr.2

Research Based Best Practice in Reading

Students will examine research and best practices to support the reading literature and informational text strands of the English Language Arts (ELA) Common Core State Standards (CCSS). Students will: 1) compare and contrast the key ideas and details, craft and structure, integration of knowledge and ideas, and range of reading and level of text complexity for both reading literature and informational text. 2) collaborate with peers to practice and refine their instruction to include demonstration, student engagement, and independent application. Assignments and assessments will be directly applied to the learner's professional practice. Not applicable to a master's degree in MEPD initial certification, reading, or special education. Prerequisite: admission to English Language Arts Elementary Certificate Program or approval from Institute for Professional Studies in Education (IPSE). Offered Fall, Spring, Summer.

EDU 720 Cr.2

Digital Literacy and the Common Core

In this course, students will examine the research and best practices to support all of the strands of the English Language Arts (ELA) Common Core State Standards (CCSS) in the area of digital literacy. Students will learn how to search efficiently and evaluate websites for validity. Students will collaborate using a variety of online tools including wiki's, blogs, and other social media. Lastly, students will implement lessons and strategies in their professional practice to help achieve career and college readiness skills for their students. Not applicable to a master's degree in MEPD initial certification, reading, or special education. Prerequisite: admission to English Language Arts Elementary Certificate Program or approval from Institute for Professional Studies in Education (IPSE). Offered Fall, Spring, Summer.

EDU 723 Cr.1

Best Practice Pedagogy III: Integration

In this third course of four, students will integrate best practice pedagogy. Coursework requirements include application to the workplace setting and communication via technology. In addition to continuing concepts from "Best Practice Pedagogy" I & II, key concepts for this course include current best practice strategies and research-based best practice strategies. Prerequisite: EDU 621, EDU 622; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 724 Cr.1

Best Practice Pedagogy IV: Action

In this fourth course of four, students will take action with regard to best practice pedagogy. Coursework requirements include application to the workplace setting and communication via technology. In addition to continuing concepts from "Best Practice Pedagogy" I, II, & III, the key concept for this course includes current best practice strategies and research-based best practice strategies. Prerequisite: EDU 621, EDU 622, EDU 723; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 733 Cr.1

Curriculum Development and Assessment III: Integration

In this third course of four, students will integrate curriculum development and assessment. Coursework requirements include application to the workplace setting and communication via technology. In addition to continuing the concepts from "Curriculum Development and Assessment" I & II, the key concepts for this course include: current best practice assessment strategies, research-based best practice assessment strategies, and curriculum frameworks. Prerequisite: EDU 631, EDU 632; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 734 Cr.1

Curriculum Development and Assessment IV: Action

In this fourth course of four, students will take action on curriculum development and assessment. Coursework requirements include application to the workplace setting and communication via technology. In addition to continuing the concepts from "Curriculum Development and Assessment" I, II, & III, the key concepts for this course includes: curriculum development and assessment as a foundation for learning. Prerequisite: EDU 631, EDU 632, EDU 733; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 735 Cr.3

Foundations of Professional Learning Communities

In this course, students will gain knowledge of the essential components of a Professional Learning Community (PLC). Using acquired knowledge, students will analyze the progress of their school or district on the PLC continuum. Students will investigate ways to build a culture of collaboration that improves student learning and will be expected to continuously apply PLC tenets to their practice. Not applicable to a master's degree in MEPD initial certification, reading, or special education. Prerequisite: admission to Professional Learning Community Certificate Program or approval from Institute for Professional Studies in Education (IPSE). Offered Fall, Spring, Summer.

EDU 736 Cr.3

Assessments, Grading and Professional Learning Communities

In this course, students will gain knowledge of how assessment and grading are related to the fundamental purpose of ensuring high levels of learning for all students in a Professional Learning Community (PLC). Using acquired knowledge, students will analyze the progress of their school or district on the PLC continuum in areas related to assessment and grading. Students will investigate formative and summative assessment. In addition, students will learn how collaborative teams in a PLC work to use the results of common assessments to inform instruction and improve student achievement. Not applicable to a master's degree in MEPD initial certification, reading, or special education. Prerequisite: admission to Professional Learning Community Certificate Program or approval from Institute for Professional Studies in Education (IPSE). Offered Fall, Spring, Summer.

EDU 737 Cr.3

Teacher Leadership: Professional Learning Communities

In this course, students will apply their knowledge of the essential components of a Professional Learning Community (PLC) in their school setting. Using acquired knowledge, students will implement an action plan that they created in semester I. The course will conclude with a culminating project which includes an updated action plan, a reflection paper and artifacts. Not applicable to a master's degree in MEPD initial certification, reading, or special education. Prerequisite: admission to Professional Learning Community Certificate Program or approval from Institute for Professional Studies in Education (IPSE). Offered Fall, Spring, Summer.

EDU 738 Cr.3

Professional Learning Community in the Content Areas

In this course, students will apply their knowledge of the essential components of a Professional Learning Community (PLC) in their school setting with an emphasis on content. Using acquired knowledge, students will implement an action plan that they created in semester I. The course will conclude with a culminating project that includes an updated action plan, a reflection paper and artifacts. Students will also explore with their PLC and Professional Learning Teams (PLTs) the four collar questions of PLCs. Not applicable to a master's degree in MEPD initial certification, reading, or special education. Prerequisite: admission to Professional Learning Community Certificate Program or approval from Institute for Professional Studies in Education (IPSE). Offered Fall, Spring, Summer.

EDU 743 Cr.1-2

Educational Research III: Conduct

In this third course of four, students will integrate the concept of educational research. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: professional writing according to the American Psychological Association (APA), implementation of action research, data collection, and data collection analysis. Prerequisite: EDU 641; EDU 642; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 744 Cr.2

Educational Research IV: Publication

In this fourth course of four, students will analyze data and publish the results of their educational research in a journal article. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: professional writing according to the American Psychological Association (APA), data collection analysis, research and leadership, and dissemination of results. Prerequisite: EDU 641, EDU 642, EDU 743; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 753 Cr.1

Democracy, Diversity and Social Justice in Education III: Integration

In this third course of four, students will integrate democracy, diversity, and social justice in education. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: diversity issues and democracy in the classroom. Prerequisite: EDU 651, EDU 652; admission to MEPD or MSSED Program. Offered Fall, Spring, Summer.

EDU 754 Cr.1

Democracy, Diversity and Social Justice in Education IV: Action

In this fourth course of four, students will take action with regard to democracy, diversity, and social justice in education. Coursework requirements include application to the workplace setting and communication via technology. The key concepts of this course include: current social justice issues and educational policy. Prerequisite: EDU 651, EDU 652, EDU 753; admission to MEPD or MSSED Program. Offered Fall, Spring, Summer.

EDU 763 Cr.1

Teacher Leadership III: Integration

In this third course of four, students will integrate teacher leadership into practice. Course requirements include application to the workplace setting and communication via technology. In addition to continuing the concepts from "Teacher Leadership" I & II, key concepts for this course include: educational policy and legislation, school systems, and current trends related to educational improvement. Prerequisite: EDU 661; EDU 662; admission to MEPD or MSSED Program. Offered Fall, Spring, Summer.

EDU 764 Cr.1

Teacher Leadership IV: Action

In this fourth of four, students will take action with regard to teacher leadership. Course requirements include application to the workplace setting and communication via technology. The key concepts for this course include: leadership theory and dissemination of action research. Prerequisite: EDU 661; EDU 662; EDU 763; admission to MEPD or MSSED Program. Offered Fall, Spring, Summer.

EDU 765 Cr.3

Introduction to Educational Leadership

In this course learners will explore the concept of educational leadership. More specifically, what is the role of the principal in ensuring they lead a school whereas all of their students can achieve the highest levels of academic success? What is the role of principal in creating and building a school community focused on continual reflection and improvement? With that, we will explore educational leadership via a cognitive approach grounded in the following three elements: (1) Socio-cognitive leadership - A shared cognitive approach to decision making present in schools that have successfully closed achievement gaps. (2) The Dimensions of Leadership for Learning - Where school principals focus their time and attention as a catalyst for student improvement. (3) Levers of Change - The individual, organizational, and community levers that master principals use to further the Dimensions of Leadership for Learning (Kelly & Shaw, 2009). In addition to a focus on socio-cognitive leadership, learners will consider the balance between the symbolic and technical sides of educational leadership. Finally, the concept of educational leadership will be grounded in conversations related to the importance of principal professional development to include the importance of personal development and personal satisfaction. Prerequisite: admission into the Educational Leadership Program or consent of IPSE Director. Offered Fall, Spring, Summer.

EDU 766 Cr.3

The Principalship

The task of a principal in the PK-12th grade environment is both demanding and complex. It requires that the leader be skilled in personnel administration, staff development, evaluation, instructional leadership, the reflective process along with a myriad of additional skills needed to successfully navigate the experiences of being a building principal. This course focuses on the six standards of the Interstate School Leaders Licensure Consortium (ISLLC Standards) using the reflective process as provided by Thomas Sergiovanni. Prerequisite: admission into the Educational Leadership Program or consent of IPSE Director. Offered Fall, Spring, Summer.

EDU 767 Cr.3

Data-based Decision Making for Instruction

This course explores the use of data as a tool to enhance decision-making processes for continuous school improvement by providing a framework for improving teaching and learning. Upon completion of the course, learners will be able to analyze, report, communicate, and use multiple measures of data for continuous school improvement. This course emphasizes how data can guide leaders through curriculum alignment, supervision of instruction, and professional development. Through assignments and activities learners will put theory into practice. Prerequisite: admission into the Educational Leadership Program or consent of IPSE Director. Offered Fall, Spring, Summer.

EDU 768 Cr.3

Supervision and Evaluation

This course is intended to examine the foundations of a teacher supervision and evaluation structure which includes emphasis on classroom supervision, adult learning theory, coaching, administration which promotes professional growth, standards for effective teacher evaluation and performance-based methods to teacher growth / school improvement that are closely associated with student learning outcomes. The emphasis of this course will highlight the professionalism of teaching by examining how teachers may actively contribute to determining the emphasis of their professional outcomes while emphasizing student scholarship as their core mission. Prerequisite: admission into the Educational Leadership Program or consent of IPSE Director. Offered Fall, Spring, Summer.

EDU 769 Cr.3

Leadership and Cultural Competence

This foundation course in leadership and cultural competence enhances the learner's abilities to comprehend, evaluate, and offer culturally sensitive and competent educational opportunities to diverse school populations. This course gives students the opportunity to reflect upon their own cultural development and to be more responsive to the needs of all students. Prerequisite: admission into the Educational Leadership Program or consent of IPSE Director. Offered Fall, Spring, Summer.

EDU 770 Cr.3

School Law

This course examines the federal and state school law for educational leaders addressing legal issues impacting the operation of public schools. The topics that will be studied include organizational structures of school, federal, and state systems, church-state related issues, teachers' rights, rights of students with disabilities, instructional issues, tort liability, and equal opportunities in education. Prerequisite: admission into the Educational Leadership Program or consent of IPSE Director. Offered Fall, Spring, Summer.

EDU 771 Cr.3

School Finance and Resource Allocation

This course examines the financial contexts and legal requirements of educational budgeting. The roles of federal and state laws, regulations, and tax policies are considered, as are local conditions and concerns, in raising and distributing revenue. The processes of budgetary planning, preparation, management, and control are carefully evaluated. Prerequisite: admission into the Educational Leadership Program or consent of IPSE Director. Offered Fall, Spring, Summer.

EDU 772 Cr.2

Inclusive Pedagogical Practices I

In this course learners will explore how to create and sustain schools that are successful for each of their PreK-12 students. Focus will be placed on shifting school structures from programmatic thinking to a model of service delivery. In addition, discussion will focus on using standards as a catalyst for creative uses of responsive curriculum, innovative teaching strategies, and ongoing assessment. Consideration will be placed on how funding and various laws can be leveraged to support the achievement of all students. Throughout this course learners will examine (1) preventive strategies for fostering student success versus adopting a 'wait until they fail' approach, (2) instructional strategies that engage a wide-range of students, (3) how principals can ensure the success of their students. Finally, inclusive educational pedagogies form the spine of this course. Prerequisite: admission into the Educational Leadership Program or consent of IPSE Director. Offered Fall, Spring, Summer.

EDU 773 Cr.4

Practicum in the Principalship and Practicum Seminar

The purpose of this course is to provide students with practical experience in the school principalship. Per PI 34.15 all learners seeking administrative licenses in the area of the principal must participate in a supervised practicum before graduation from their program. This practicum shall be developmental in nature and provide opportunities that afford the learner to demonstrate their knowledge and understanding of the Wisconsin Content Guidelines for Principal (5051) Licensure Programs. Performance in the principal practicum will be measured via two successful observations by a school-based supervisor (i.e., cooperating principal) as well as two by the supervisor assigned from the University of WI-La Crosse. In addition to successful observations, learners are required to engage in online seminar discussions anchored to the practicum seminar. These discussions are grounded in the day-to-day lives of principals and will support learners in gaining a deeper, authentic understanding of the principalship. Further, during the practicum experience, learners will also have the opportunity to engage in professional discussions with an experienced administrator/cooperating principal and their practicum supervisor. In addition, the practicum affords learners experience engaging in authentic activities to include the opportunity to take risks under the mindful guidance of their cooperating principal and university supervisor. Finally, practicums lead to numerous networking opportunities that can translate into informal support systems post practicum. Prerequisite: admission into the Educational Leadership Program or consent of IPSE Director. Offered Fall, Spring, Summer.

EDU 774 Cr.3

Curriculum and Leadership

The history of the field of curriculum and curriculum theory will be explored. A study of curricular paradigms that give form and shape to school practice will be included. Consent of instructor. Offered Fall, Spring, Summer.

EDU 775 Cr.3

Practicum for the Director of Instruction and Seminar

The purpose of this course is to provide director of instruction candidates with practical experience. Per PI 34.32 all candidates seeking administrative licenses in the area of the director of instruction must participate in a supervised practicum before graduation from their program. This practicum shall be developmental in nature and provide opportunities that afford the director of instruction candidates to demonstrate their knowledge and understanding of the Wisconsin Content Guidelines for Director of Instruction Licensure Programs. Performance in this practicum will be measured via two successful observations by a school-based supervisor (i.e., cooperating director) as well as by the supervisor assigned from the UWL. In addition to successful observations, candidates are required to engage in online seminar discussions anchored to the practicum seminar. These discussions are grounded in the day-to-day lives of directors of instruction and will support candidates in gaining a deeper, authentic understanding of the director of instruction position. Consent of instructor. Pass/Fail grading. Offered Fall, Spring, Summer.

EDU 776 Cr.1-6

Thesis

The master's thesis encompasses original research and represents a distinctive contribution to scholarship in the field of educational leadership. It involves original collection of data, analysis of data, making sense of the data, discussing the data within the context of a comprehensive literature review, sharing limitations, and defending research in a committee setting. Repeatable for credit - maximum six. Prerequisite: EDU 641, EDU 642; admission into the Educational Leadership Program. Consent of department. Offered Fall, Spring, Summer.

EDU 782 Cr.1

Inclusive Pedagogical Practices II

In this course learners will explore how to create and sustain schools that are successful for each of their PreK-12 students. Focus will be placed on shifting school structures from programmatic thinking to a model of service delivery. In addition, discussion will focus on using standards as a catalyst for creative uses of responsive curriculum, innovative teaching strategies, and ongoing assessment. Consideration will be placed on how funding and various laws can be leveraged to support the achievement of all students. Throughout this course learners will examine (1) how principals can support their teachers and staff to ensure student success, and (2) standards-based teaching grounded in the needs of a diverse student population. Finally, inclusive educational pedagogies form the spine of this course. Prerequisite: admission into the Educational Leadership Program or consent of IPSE Director. Offered Fall, Spring, Summer.

Educational Foundations (EFN) - Graduate Courses

Courses

EFN 475/575 Cr.1-3

Special Topics Seminar in Education

Special topics in education not covered by current education courses taught in the department. The particular topic selected to be determined by the department according to the current need and interest. Repeatable for credit - maximum six. Prerequisite: admission to teacher education, or certifiability as a teacher, or consent of the department chair. Offered Fall, Winter, Spring, Summer.

EFN 705 Cr.3

Human Relations in School and Society

This course explores human differences with special attention to diverse cultural, ethnic, and other group identifications and maintains a concerted emphasis on the intersectionalities between these differences. It examines the interplay between misperceptions and ethnocentric perspectives that foster prejudicial attitudes, actions, and inactions. The course asks students to critically examine aspects of their own identities, including how membership in various social groups affects their sense of being as well as how they interact with others. It highlights the importance of developing a nuanced vocabulary to discuss race, class, gender, sexual orientation, and disabilities through a critical sociocultural lens in order to contribute to a more inclusive and democratic society. Finally, the course considers the important role of education and other public organizations in promoting social justice and diversity in communities. Offered Fall, Spring.

CI/EFN 715 Cr.1-3

Issues and Trends in Education

Current critical issues in education on the state, national and international levels. Repeatable for credit - maximum 30. (Cross-listed with CI/EFN; may only earn 30 credits total in CI and EFN.) Offered Fall, Spring, Summer.

EFN 736 Cr.3

Interpretation of Current Research

This course is designed to provide students in the non-thesis option with the fundamental background needed to read, interpret, and evaluate current research in health, physical education, and recreation. The student will become familiar with the various research methods and designs utilized in their selected fields. Offered Occasionally.

EFN 739 Cr.1-3

Seminar: Special Problems in Education

Studies of selected problems and topics in education and schooling by advanced students who meet in seminar format to confer, report, present, critique and discuss. Repeatable for credit - maximum three. Prerequisite: graduate level research course. Offered Occasionally.

CI/EFN 750 Cr.1-3

Guided Learning

Study of a significant problem, development of a professionally related competency, or acquisition of job-related knowledge through independent study on or off campus under the direction of a faculty member. On occasion, individuals may be formed into classes. Repeatable for credit - maximum 15. (Cross-listed with CI/EFN; may only earn 15 credits total in CI and EFN.) Consent of instructor. Offered Fall, Winter, Spring, Summer.

EFN 760 Cr.3

Theory and Practice in Educational Research

Study of concepts and processes associated with reading and/or conducting scholarly qualitative, descriptive and experimental research. Identification and examination of retrieval and statistical treatment systems. Practice in reading/reviewing and critiquing published research. Development of a research or grant proposal. Prerequisite: minimum of 12 graduate credits. Offered Fall, Spring, Summer.

CI/EFN 761 Cr.2

Seminar Paper

Completion of an acceptable seminar paper under the direction of an assigned staff member. Prerequisite: EFN 760 or concurrent enrollment. (Cross-listed with CI/EFN; may only earn credit in one department.) Offered Fall, Winter, Spring, Summer.

CI/EDM/EFN/RDG 796 Cr.1-2

Independent Study

Directed readings or presentation of material not available in formal departmental courses under the supervision of an assigned staff member. Repeatable for credit - maximum four. (Cross-listed with CI/EDM/EFN/RDG; may only earn four credits total in CI, EFN, EDM, and RDG.) Offered Fall, Winter, Spring, Summer.

CI/EFN 799 Cr.1-6

Research: Master's Thesis

Completion of an acceptable thesis under the direction of an assigned staff member. Repeatable for credit - maximum six. Prerequisite: EFN 760 or concurrent enrollment. (Cross-listed with CI/EFN; may only earn credit in one department.) Offered Fall, Winter, Spring, Summer.

Educational Media (EDM) - Graduate Courses

Courses

EDM 710 Cr.3

Preparation of Instructional Materials

Design and preparation of instructional materials for use by teachers and media specialists in schools, business and industry. Presents advanced techniques for the utilization of mounting, lettering, computer graphics and other illustration techniques for such final products as paste-ups, transparencies, slide-tape series and displays. A laboratory fee is charged. Materials produced from individually exercised options are retained by the students. Offered Occasionally.

EDM 740 Cr.2-3

Library Media Applications of Microcomputers

Microcomputer based operations such as circulation systems, catalog systems, data base searching, and applications software are covered. Also included are the selection of software and hardware, and the role of the library as a computer resource center. Repeatable for credit - maximum two. Offered Occasionally.

EDM 760 Cr.2-3

Introduction to Educational Research

Emphasis on the concepts and current processes associated with historical, descriptive, and experimental studies. The identification and examination of print and non-print material sources used in retrieving information will be studied. Practice will be given in reviewing and critiquing current, published research studies and in developing a proposal for a research study. Repeatable for credit - maximum three. Offered Occasionally.

EDM 772 Cr.3

School Media Supervisor

Role of the school media supervisor, director, coordinator, or consultant on state, regional, district levels. How this person functions in educational administration, curriculum development, centralized acquisition and processing centers. Principles and problems involved. Offered Occasionally.

CI/EDM/EFN/RDG 796 Cr.1-2

Independent Study

Directed readings or presentation of material not available in formal departmental courses under the supervision of an assigned staff member. Repeatable for credit - maximum four. (Cross-listed with CI/EDM/EFN/RDG; may only earn four credits total in CI, EFN, EDM, and RDG.) Offered Fall, Winter, Spring, Summer.

EDM 799 Cr.2-6

Terminal Projects

As the culminating experience in a graduate program, the student is given three alternative opportunities: 1) complete a practicum in a library/instructional media center; 2) produce an expressive or instructional program of professional proportions; 3) select a problem for individual study and write a seminar paper. In options 2 and 3, the student will develop a performance contract with a project committee. A written narrative may be required as a companion to the project. Repeatable for credit - maximum six. Offered Fall, Winter, Spring, Summer.

Educational Studies (EDS) - Graduate Courses

Courses

EDS 400/500 Cr.1-3

Continuing Education Professional Development

This course provides continuing education opportunities for Educational Professionals on a wide variety of topics. Topics selected for this course will mirror current trends and professional development interests of individual school district or educational institution. Varying topics will be offered with a specific title assigned to each. This course is open to professionals practicing in the education field and offered through the Extended Learning Office (UWLEX). Repeatable for credit with a different topic. EDS 400/500 credits cannot be used toward any Department of Educational Studies undergraduate or graduate programs. Consent of department. Offered Fall, Winter, Spring, Summer.

EDS 475/575 Cr.1-3

Educational Studies Special Topics

The purpose of this course is to provide opportunities for teacher candidates or aspiring teachers to gain experience and knowledge for education topics. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit - maximum 18. Offered Fall, Winter, Spring, Summer.

EDS 712 Cr.3

Critical Issues in Reading for School Psychologists

The course is designed to develop competence in determining causes and degrees of reading disabilities, recommending specific corrective or remedial instruction to meet specific needs for students. This course will help reading professionals to investigate important factors of achievement gap in literacy learning and incorporate effective research-based modifications for diverse learners. The course content also focuses on practitioner inquiry, reflective practice, and the evolving concept of literacy shaped by the following trends: culturally responsive literacy curriculum, critical literacy, and new literacies. Prerequisite: SPY 752; taken concurrently with SPY 763; admission to School Psychology Program. Offered Fall.

EDS 780 Cr.1-3

Contemporary Issues

This course engages students in the examination of a current issue impacting public education and the teaching profession through the integration of focused research, debate, and writing. The issue under study may change each term depending on the importance and currency of the problem. Repeatable for credit - maximum three. Prerequisite: admission to a DES graduate program. Offered Fall, Spring.

English (ENG) - Graduate Courses

Courses

ENG 500 Cr.1-3

Workshop

Projects involving trends and issues in composition, language, or literature related to various professional uses of English, with a central topic to be announced before each workshop. Repeatable for credit - maximum six. Offered Occasionally.

Ethnic and Racial Studies (ERS) - Graduate Courses

Courses

ERS 400/500 Cr.1-3

Individual Study in Ethnic and Racial Studies

Directed reading and research under the supervision of an instructor. Repeatable for credit - maximum six. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectation. Consent of instructor. Offered Fall, Spring.

Exercise and Sport Science (ESS) - Graduate Courses

Courses

ESS 423/523 Cr.2

Sociocultural Factors in Physical Education

This is a content course which focuses on contemporary and historical perspectives on sociocultural and philosophical issues that influence teaching and learning in physical education. Students will analyze how particular students and student groups are advantaged and disadvantaged in and through social practices in physical education and physical activity environments. Topics include, but are not limited to, race, ethnicity, gender, sexuality, ability, bodies, socioeconomic status, and culturally responsive teaching. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall, Spring.

ESS 430/530 Cr.3

Disability and Physical Activity Implications

The causes, characteristics, incidences, and impacts of physical, sensory, emotional/behavioral, intellectual, and other developmental disabilities. Content includes a wide variety of low and high incidence disabilities (mild through severe/profound levels for each) and the implications for physical education instruction in PK-12 educational settings. Emphasis is on movement and motor development implications, adaptations, and instructional strategies to enhance physical activity and gross motor skills of individuals with disabilities, ages 3 through adulthood. This course is taught largely at a graduate level. Prerequisite: admission to Master of Science Physical Education Teacher Education Program. Offered Fall, Summer.

ESS 435/535 Cr.1

Sport for Persons with Disabilities

This course addresses sports that have been modified/adapted based on traditional sports and those developed specifically for persons with disabilities. Content includes the legal aspects and health enhancing benefits for sport participation for persons with disabilities, developmental sport models, disability sport organizations, sport skill development, school and community advocacy and involvement, and interscholastic adapted sport programs. Out of class clinical experience is required in the course. This course is taught largely at a graduate level. Prerequisite: admission to Master of Science Physical Education Teacher Education Program. Offered Spring, Summer.

ESS 436/536 Cr.3

Assessment in Adapted Physical Education

This course presents standardized tests and authentic procedures for assessing the gross motor development, motor skill performance, and health-related physical activity/fitness of persons with disabilities. Students learn to select, administer, and interpret assessment instruments and how to use results to develop the physical education components of individualized education programs (IEPs) as the basis for instructional programs. Types of assessment decisions and the PK-12 special education eligibility and service delivery process is studied. Clinical experiences required. This course is taught largely at a graduate level. Prerequisite: admission to Master of Science Physical Education Teacher Education Program. Offered Spring, Summer.

ESS 437/537 Cr.3

Teaching and Service Delivery Models in Adapted Physical Education

This course focuses on evidence-based adapted physical education teaching strategies and service delivery models in PK-12 settings. Instructional programming and best practices of early childhood, elementary, middle/secondary, and transitional programs for students with disabilities in adapted physical education are covered. Emphasis is on collaboration among professional service providers such as special educators, general physical educators, and related service personnel (e.g., occupational, physical, and recreational therapists), as well other community agency staff. Practical teaching is included, along with guest presentations on related disciplines and programs. Students are required to participate in approximately 35 clinical education hours for the semester. This course is taught largely at a graduate level. Prerequisite: admission to Master of Science Physical Education Teacher Education Program. Offered Fall, Spring.

ESS 440/540 Cr.3

Advanced Sport Nutrition

This course is designed to provide the student with a working knowledge of advanced topics as they relate to the field of sport nutrition. Such topics will include nutritional biochemistry, ergogenic aids, nutritional strategies for strength/power athletes, endurance athletes and altering body composition. Students will also learn how to assess an individual's dietary intake and utilize technology to determine energy needs of athletes. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESS 302, ESS 323. Offered Summer, Winter.

ESS 445/545 Cr.3

Planning Facilities for Physical Activity and Sport

A study of planning techniques concerning facility development and maintenance for schools, athletic clubs, fitness centers, and professional sport organizations. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: admission to ESS Sport Administration MS Program or consent of program director. Offered Fall, Spring.

ESS 460/560 Cr.1-3

Exercise Science Clinical Forum

Visiting lecturers as well as university professors will address various topics related to exercise science. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit. Offered Occasionally.

ESS 725 Cr.2

Diversity in the Physical Activity Setting

The class will address racial, ethnic, sexual orientation, and disability issues for which physical education teachers should have an awareness. The purpose of the course will be to sensitize the students to the fact that diversity is part of life in America and that a teacher needs to recognize that differences need to be understood and reflected upon so that the teacher can help all students have a positive educational experience. Pedagogical methods for integrating students will be addressed, such as inclusion techniques for students with a disability, culturally diverse games, and appropriate behavior management techniques. Offered Spring.

ESS 727 Cr.2

Planning for Effective Instruction in Physical Education

This course focuses on the planning and teaching skills needed to be an effective/model physical educator. Research related to teaching and learning styles will be studied and instructional materials will be developed. A variety of instructional units and lessons which incorporate knowledge-based objectives and developmentally appropriate learning experiences will be designed and implemented. Prerequisite: ESS 759. Offered Spring.

ESS 730 Cr.3

Research Methods for Exercise and Sport Science

This course presents the purposes, methods, and techniques for the development, conduct, and interpretation of research. Emphasis is on understanding the process and product of current research. Each student is guided in the creation of a graduate-level research proposal and other components of the research process. Offered Fall, Spring, Summer.

ESS 735 Cr.3

Statistics for Exercise and Sport Science

An introductory course in statistics with the essential purpose of providing students with the tools to conduct statistical analyses as well as to interpret and evaluate the results of research. Offered Fall, Spring, Summer.

ESS 736 Cr.3

Critical Analysis Project: Adapted Physical Education

This is a required course in the adapted physical education graduate emphasis. The student proposes, develops, and analyzes an issue or problem in the adapted physical education profession. Upon approval, the student will conduct an in-depth analysis of the issue/problem. The end product will be a written document describing the student's analysis and an oral presentation with the analysis committee. Prerequisite: ESS 530; ESS 536; ESS 537; EFN 730. Offered Fall, Spring, Summer.

ESS 737 Cr.2

Curriculum Design in Physical Education

This course presents an in-depth study of curriculum development and a variety of physical education curricular models for all PK-12 grade levels. Emphasis is on designing state and national standards based curriculum, and evaluating current written physical education curricula to assess effectiveness and student learning. Offered Fall.

ESS 738 Cr.3

Financial Management for Sport Programs

Principles of sport finance and economics including budget development and management, fund-raising, and economic impact of sport, financial theories and practical application of sport income and expenditures in current society. Prerequisite: admission to ESS Sport Administration MS Program or consent of program director. Offered Summer.

ESS 744 Cr.3

Lab Techniques in Clinical Exercise Physiology

Students learn techniques for health screening, evaluation of exercise tolerance (with and without gas exchange), body composition analysis, and spirometry. The focus is on hands-on skill development and supports theoretical concepts addressed in other parts of the curriculum. Lect. 2, Lab. 1. Prerequisite: ESS 770 or concurrent registration. Offered Fall.

ESS 745 Cr.3

Pedagogy of Outdoor Physical Education

This course covers the history, philosophy, and principles of outdoor physical education, and its interdisciplinary nature and aim of employing the outdoors to contribute to student's physical and educational growth. The pedagogical focus provides teaching strategies, instructional materials, and procedures used in the field, as well as information on existing programs. Current research and national trends and issues will be emphasized. Offered Spring.

ESS 746 Cr.3

Physical Education Teaching Graduate Project

This culminating project will provide students with a supervised opportunity for in-depth study of a physical education issue, trend, or problem. Completion of the project should demonstrate advanced professional competence in program development, implementation, and/or evaluation. The project will be completed with graduate faculty approval and supervision. Prerequisite: completion of six hours of the required core; acceptance into the Physical Education Teaching Graduate Program. Offered Occasionally.

ESS 747 Cr.3

Advanced Principles of Athletic Performance Enhancement

This course provides advanced concepts of training and conditioning for both athletes and other populations. It includes applicable and practical information for developing conditioning programs for speed, strength, endurance, and power. This course is ideal for future professionals such as athletic coaches, strength and conditioning coaches, personal trainers and those planning to become strength and conditioning professionals. Prerequisite: ESS 767. Offered Summer.

ESS 748 Cr.3

Sports Performance Practicum

This practicum course is designed to give the graduate students interested in strength and conditioning of athletes practical experience in two primary areas: 1) the development and delivery of sport-specific strength and conditioning training programs to improve athletic performance; and 2) measurement of performance related to strength and conditioning of athletes. Offered Fall.

ESS 749 Cr.3

Psychological Aspects of Sports

Examines the developmental, personal, social and psychological aspects of sport performance. Special attention is given to psychological factors such as activation, aggression, anxiety, affiliation, motivation, personality, and performance variables. Prerequisite: admission to an ESS MS Program. Offered Spring.

ESS 750 Cr.3

Mechanics and Analysis of Movement

This course is designed to provide a mechanical understanding of the human body in motion. Mechanical principles, laws, and equations will be studied and applied to human movement in exercise and sport activities. Quantitative analysis techniques will be introduced and biomechanical assessment of various exercises and sports will be performed. Prerequisite: ESS 303 or equivalent; MTH 151 or equivalent. Offered Spring.

ESS 752 Cr.3

Assessment of Physical Education and Athletics

This course is designed for practitioners in the field of physical education and athletics. Students will learn to utilize assessment strategies and data to improve instruction and program effectiveness. Emphasis on the use of assessment data to document effectiveness and increase accountability of physical education and athletic programs. Offered Spring.

ESS 753 Cr.2-3

Problems in Physical Education

Provides an opportunity to investigate and to attempt solution of a professional problem in one of the following areas: 1) athletics; 2) recreation; 3) health education; 4) dance; 5) physical education. Designed primarily for experienced teachers. Repeatable for credit - can repeat the course once. Offered Occasionally.

ESS 759 Cr.3

Analysis and Supervision of Physical Education

Designed to present current research related to effective teaching in physical education, provide quantitative and qualitative techniques to gather information about and analyze teaching, and how to apply the principles of clinical supervision in physical education for the improvement of instruction. Additional emphasis will also be given to the personal assessment of teaching and the need for and characteristics of effective staff development activities. Offered Fall.

ESS 760 Cr.3

Issues in Sport Management

This course is designed to provide the learner the opportunity to study specific problems in the field of sport management, and to analyze the constantly changing areas of sport management through lectures, readings, visual aids, discussion, and student investigation. Prerequisite: admission to ESS Sport Administration MS Program or consent of program director. Offered Spring.

ESS 761 Cr.2

Lab Techniques in Human Performance-Biomechanics

This course provides a variety of hands-on experiences in biomechanical testing procedures. Students will be introduced to a variety of testing procedures utilized in collecting kinematic, and neuromuscular data. Special techniques of data processing will also be discussed. Prerequisite: ESS 750 or concurrent enrollment. Offered Occasionally.

ESS 762 Cr.2-3

Lab Techniques in Human Performance-Exercise Physiology

Development of skills and experience (in the area of exercise physiology) necessary for data collection in laboratory and field settings, special techniques of data acquisition, processing, analyzing and interpretation of results using available experimental equipment and methods. Repeatable for credit - maximum three. Prerequisite: ESS 767 or ESS 770. Offered Spring.

ESS 765 Cr.2-3

Adventure Education for Physical Educators

This course focuses on methods, safety, research, and management of adventure education programs and initiative games in the physical education curriculum. Implementation of adventure activities with different age groups and diverse populations in physical education programs will be emphasized, as well as the principles and challenges of teaching adventure education. The use of unique environments such as ropes courses and climbing walls will be included. Repeatable for credit - maximum three. Offered Fall.

ESS 766 Cr.3

Sport and Society

An examination of American culture and the role played in it by sports. Areas which will come under scrutiny are: the family, labor, industry, schools, churches, communication media, population mobility, government, race relations, foreign relations, war activities, and democracy as they are related to sports in America. Prerequisite: admission to ESS Sport Administration MS Program or consent of program director. Offered Spring.

ESS 767 Cr.3

Applied Physiology of Endurance Performance

Designed to teach the physiological responses and adaptations to training and performance of endurance sports. Emphasis is on the metabolic, cardiovascular, and respiratory systems. Environmental concerns will also be addressed. Prerequisite: ESS 302 or equivalent. Offered Fall.

ESS 768 Cr.3

The Psychomotor Basis of Skill Performance

Integration of thought processes with the physical organism to produce highly skilled acts. Offered Fall.

ESS 769 Cr.3

Application of Muscle Physiology to Strength/Power Training

This course is designed to apply the training for strength and power muscular performance to teach skeletal muscle physiology in a classroom setting. The ability to regulate force and power production and muscle metabolism during strength power training will be studied. Application to common training practices including strength training, plyometrics, and sprint training and adaptations to such training highlight this course. Prerequisite: undergraduate human anatomy and physiology course; exercise physiology course; ESS 767 or ESS 770 recommended. Offered Spring.

ESS 770 Cr.3

Physiology of Activity

Designed to provide the student with a general overview of the physiological basis of activity with an emphasis on those factors affecting performance in healthy individuals. Prerequisite: ESS 302 or equivalent. Offered Fall.

ESS 771 Cr.2-3

Current Issues in Physical Education

Identification of current trends and issues in physical education. Emphasis on development of methods for resolving issues. Opportunities for the student to pursue professional issues of current interests will be encouraged. Repeatable for credit with program director permission - maximum six. Offered Summer.

ESS 774 Cr.2

Clinical in Phase I and Phase II Cardiac Rehabilitation

This course is designed to provide hands-on experiences in Phases I and II cardiac rehabilitation, pulmonary rehabilitation and cardiac related co-morbidities in local hospitals. Additional activities will include two regional field trips to observe existing programs in progress. Prerequisite: open only to students in the ESS Clinical Exercise Physiology MS Program. Offered Fall, Spring.

ESS 776 Cr.3

Clinical in Adult Fitness/Phase III Cardiac Rehabilitation

This course is designed to provide students with hands-on experiences in exercise prescription, exercise leadership, and patient counseling in health and fitness programs for apparently healthy adults and maintenance (Phase III) cardiac rehabilitation participants. Repeatable for credit - maximum nine. Offered Fall, Spring, Summer.

ESS 777 Cr.2

Seminar in Adventure/Outdoor Physical Education

In-depth examination of educational research in adventure education. Emphasis will be placed on using research to solve current problems, examining trends and contemporary issues in K-12 adventure programs. Reviewing research and using findings to solve problems in the public school setting will be stressed. Offered Fall.

ESS 778 Cr.2

Practicum in Adventure Education

This practicum will provide students with experiences in field based (authentic) leadership and teaching situations in a field setting with public school programs. Emphasis will be on planning and developing outdoor physical education programs in conjunction with public/private K-12 programs. Consent of instructor. Offered Spring.

ESS 779 Cr.1-3

Readings in Special Physical Education

An in-depth analysis of the literature in a chosen topic pertaining to adapted physical education. Readings will include both assigned and student selected materials. In addition, there will be periodic discussions with the instructor and an agreed upon terminal assignment. Repeatable for credit - maximum three. Prerequisite: ESS 430/530, ESS 436/536. Offered Fall, Spring.

ESS 780 Cr.2

Philosophy and Organization of Preventive and Rehabilitative Programs

This course focuses on the historical background, documented benefits, and organizational issues in both conventional and innovative approaches to prevention and rehabilitation programs. The course will ultimately address both the why and how of clinical exercise and risk factor reduction programs. Offered Spring.

ESS 782 Cr.3

Electrocardiography

Course is designed to instruct the student in the basics of the normal, the abnormal resting and the exercise electrocardiogram. Involves lecture experiences and intensive investigation of documented ECG-GXT case studies. Offered Summer.

ESS 783 Cr.3

Graded Exercise Testing and Exercise Prescription

This course is designed to provide students with the theoretical and practical knowledge necessary to conduct and interpret the wide variety of diagnostic exercise tests commonly used in clinical practice. Additionally, students will be able to formulate, based on test results, appropriate exercise prescriptions for healthy adults, as well as patients with a wide variety of chronic diseases. A major goal of the course is to provide students with the knowledge and practical skills required to take the American College of Sports Medicine Registered Clinical Exercise Physiologist certification examination. Prerequisite: ESS 782. Offered Spring.

ESS 784 Cr.3

Advanced Cardiovascular Physiology

Designed to acquaint the student with advanced principles and concepts regarding cardiovascular physiology. The course examines in detail the various parameters of the cardiovascular system, the implication of disease and structural abnormalities to these parameters, and the relationship of resting cardiovascular data to exercise data. Lect. 2, Lab. 2. Offered Spring.

ESS 785 Cr.5

Internship: Clinical Exercise Physiology

Designed to provide the student with practical work experience in an adult fitness (YMCA/corporate environment) or clinical setting. The internship is three months in duration and all course work and thesis requirements must be completed prior to the beginning of the internship. Prerequisite: open only to students in the ESS Clinical Exercise Physiology MS Program. Offered Fall, Spring, Summer.

ESS 786 Cr.1

Advanced Cardiac Life Support (ACLS)

An in-depth study and the development of understanding and skills of Advanced Cardiac Life Support (ACLS). Successful completion of the course and passing the ACLS exam results in the student being ACLS certified. Prerequisite: ESS 782. Offered Fall.

ESS 787 Cr.1-3

Clinical Internship in Adapted Physical Education

Students complete clinical experiences in adapted physical education settings. Students are required to complete three different clinicals. Each experience is one semester and for one credit hour. Clinical experiences may include infant (0-2 years) stimulation programs, pre-school or early childhood programs, motor development and physical fitness programs for persons with disabilities, and school-based adapted physical education programs. Three credits of internship are required in the adapted physical education emphasis of the graduate Physical Education Teacher Education Program. Repeatable for credit - maximum three. Prerequisite: admission to ESS Physical Education Teacher Education MS Program. Offered Fall, Spring, Summer.

ESS 788 Cr.6

Internship in Sport Administration

Designed to provide students with an intensive supervised sport administration work experience. The internship must be at least three consecutive months (40 hours per week). Only approved sites can be used for internships. Prerequisite: open only to students in ESS Sport Administration MS Program who have completed all required course work for the degree. Offered Fall, Spring.

ESS 789 Cr.3

Internship: Human Performance

A practical learning experience designed to apply the competencies gained within the human performance emphasis in a community, institutional or industrial setting. Each intern will earn three elective credits for a mutually agreed upon time period, consistent with the policies of the university and the internship site. All other course work shall be completed prior to the internship experience. Repeatable for credit - maximum six. Offered Fall, Spring, Summer.

ESS 794 Cr.1-3

Readings in Sports Psychology

A survey and analysis of current and classical literature pertaining to the area of sport psychology in human performance. Readings will include both assigned and student selected materials for the purpose of student presentation to and discussion with the assigned instructor. Prerequisite: ESS 749; graduate student in ESS MS Program. Offered Fall, Spring.

ESS 795 Cr.1-3

Independent Study

Advanced work not covered in regular courses. Repeatable for credit - maximum six. Consent of advisor. Consent of department. Offered Fall, Spring, Summer.

ESS 796 Cr.1-3

Readings in Biomechanics

A survey and analysis of current and classic literature pertaining to the area of biomechanics in human performance. Readings will include both assigned and student selected materials for the purpose of student presentation to and discussion with the assigned instructor. Prerequisite: ESS 750; graduate student in ESS MS Program. Offered Occasionally.

ESS 797 Cr.1-3

Readings in Exercise Physiology

A survey and analysis of current and classical literature pertaining to the area of exercise physiology in human performance. Readings will include both assigned and student selected materials for the purpose of student presentation to and discussion with the assigned instructor. Prerequisite: ESS 767 or ESS 770. Offered Fall, Spring.

ESS 798 Cr.1-3

Readings in Motor Learning

A survey and analysis of current and classical literature pertaining to the area of motor learning in human performance. Readings will include both assigned and student selected materials for the purpose of student presentation to and discussion with the assigned instructor. Prerequisite: ESS 768; graduate student in ESS MS Program. Offered Fall, Spring.

ESS 799 Cr.1-6

Research: Master's Thesis

An independent research project is to be selected and executed under the direction of a staff member by those students electing to write a thesis. The project may be in any of the areas related to physical education, such as health, recreation, or athletics. For students following Plan A - Thesis option. Repeatable for credit - maximum 10. Offered Fall, Spring, Summer.

Finance (FIN) - Graduate Courses

Courses

FIN 701 Cr.2

Foundations of Managerial Finance

Introduction to managerial finance with an emphasis on effective decision-making. Topics include risk and return, present value, valuation, cost of capital, capital budgeting, leverage and capital structure, forecasting, financial markets and the environment, and working capital. Prerequisite: This course is an internet MBA foundation course. Offered Fall, Spring, Summer.

FIN 797 Cr.1-3

Independent Study

Individual reading or research under the guidance of a staff member. Registration with the consent of the student's regular adviser, the instructor, and the department chairperson. Approval form available in the office of the Dean of the College of Business Administration. Form must be completed prior to registration. Repeatable for credit - maximum three. Prerequisite: admission to the MBA Program with a minimum 3.50 cum GPA; completed a minimum of 21 credits in the MBA Program. Maximum of three credits of independent study in any combination of ECO 797, FIN 797, MGT 797 and MKT 797. Consent of instructor. Offered Occasionally.

Geography (GEO) - Graduate Courses

Courses

ESC/GEO 405/505 Cr.3

Geographic Information System and Science II

Building upon lessons learned in ESC/GEO 305, this course focuses on geospatial analysis and database development. The course includes both theoretical and applied aspects of GIS analysis. GIS software, with an emphasis on ArcGIS, will be used to explore geographic questions. Hands-on exercises pertaining to environmental science, natural resource management, business, and urban planning will be used to complement lecture material. Topics will include data organization, database structure, input and output, data quality, and geographic analysis of spatial and attribute data. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 305; STAT 145. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Fall, Spring.

ESC/GEO 410/510 Cr.3

Geospatial Field Methods

This course covers fundamental concepts of geospatial data collection, analysis, and representation. Students gain hands-on experience using geospatial technology at field sites in the La Crosse area. It includes reconnaissance and surveys using current methods, including GPS, total stations, sonar, and unmanned aerial systems; and practical integration of field data into a geographic information system. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 405/505 or concurrent enrollment. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Fall.

ESC/GEO 412/512 Cr.3

Geospatial Applications of Unmanned Aerial Systems

This course provides an introduction to the Unmanned Aerial System (UAS) from the geospatial perspective which includes: UAS sensors and platforms, civilian and remote sensing applications, sensors calibration and boresighting, operational requirements, data processing using specialized software to derive products such as ortho-rectified imagery, multispectral imagery, digital terrain and surface models, current rules and regulations governing owning and operating a UAS in the United States. Students in this course will get hands-on experience of UAS mission planning and flying with both fixed-wing and multi-rotor UAS for environmental data collection outside the classroom. The course content will also prepare the students for the remote pilot exam conducted by the FAA. They will complete hands-on lab exercises involving UAS data pre-processing and analysis to generate geospatial products and assess their accuracy. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 305. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

ESC/GEO 415/515 Cr.3

Remote Sensing of the Environment I

This course is an introduction to remote sensing, emphasizing satellite multispectral observations of the earth applied to such fields as agriculture, forestry, water resources, urban and regional planning, and environmental assessment. Upper Midwest and selected areas worldwide are explored with visual and digital image processing techniques. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 305. (Cross listed with ESC/GEO, may only earn credit in one department.) Offered Fall.

ESC/GEO 418/518 Cr.3

Map Design and Geovisualization

In this course students will learn about the process of making maps, how to acquire and appropriately manipulate spatial data, and how to design clear, compelling, and beautiful maps. In addition to the key theories underlying the cartographic discipline, students will learn technical skills to enhance their other research interests and make them far more competitive on the job market once they graduate. Students will apply their knowledge about map design using cutting edge software. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 305. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Fall.

ESC/GEO 422/522 Cr.3

Meteorology

Atmospheric concepts and processes of the earth's weather are covered. Principles and laws which govern the behavior of the atmosphere are investigated, including energy exchange between the earth and the atmosphere, forces governing atmospheric motion, atmospheric moisture and stability, condensation and precipitation processes, air masses and cyclogenesis, thunderstorm and tornado development, and hurricanes. Surface and upper-air charts, synoptic patterns, thermodynamic charts, radar and satellite images, and weather patterns are analyzed. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 221. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring.

ESC/GEO 425/525 Cr.3

Biogeography

A systematic analysis of the geographic distribution of organisms from historical, ecological and regional perspectives. Emphasis is placed on the principles and the methods of biogeography. Special reference is made to biogeographic regions, the distribution of organisms in space and time, and ecological biogeography. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 101 or ESC 211. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Fall - Odd Numbered Years.

ESC/GEO 426/526 Cr.4

Soil Systems

A comprehensive study of soils around the world and the factors and processes that drive their formation and dynamic evolution. Emphasis is placed on soil morphology, formation, and biogeochemical influences within the soil environment. A one-credit lab section is devoted to the hands-on exploration and study of soils through laboratory and field exercises. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 3, Lab 2. Prerequisite: ESC 222. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Alternate Years.

ESC/GEO 527 Cr.3

Water Resources

A study of physical water resources systems and management and utilization of water as a resource. Class activities will include seminars on critical water resource management issues and hands-on analysis of pertinent data, including exercises in Geographic Information Systems. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 101. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring - Odd Numbered Years.

ESC/GEO 528 Cr.3

Past Environmental Change

An overview of the study of environmental change during the Quaternary. Approaches used to understand past climatic conditions and effects on terrestrial and marine ecosystems at global, regional and local scales will be explored, as will physical, geochemical and biological methods associated with continuous and depositional environments. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 221 and ESC 222. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Alternate Years.

ESC/GEO 430/530 Cr.3

River Systems

A systematic study of the interactions between flowing water and surface landforms. Emphasis is placed on watershed and stream development, sediment transport and storage, flow frequency analysis, and applications of fluvial principles to river management and stream restoration. Class activities will include field exercises in the La Crosse region, mathematical analysis of hydrologic variables, and spatial analysis with Geographic Information Systems. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 222. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring - Odd Numbered Years.

ESC/GEO 440/540 Cr.3

Geographic Interpretation of Aerial Photographs

Systematic applications of aerial photographs in the interpretation and analysis of geographic problems. Emphasis is placed on digital photograph interpretation within a geographic information system. Topics include urban and rural land use, natural resource, and environmental assessment. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 405/505. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

ESC/GEO 445/545 Cr.3

Remote Sensing of the Environment II

This course covers advanced techniques of digital satellite and airborne image analysis and processing, emphasizing theory and applications in natural resource, land use and environmental assessment. It includes practical approaches to integrating imagery with geographic information systems area for spatial analyses and decision making. Data acquisition, integrity, manipulation, formatting, storage, and retrieval are also examined. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 415/515. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring.

ESC/GEO 455/555 Cr.3

Web Mapping

In this course, students will learn how to produce and design interactive Web maps for communication. Web maps take many forms and they are continually changing. Thus, the objective of this course is to do two things: (1) develops proficiency in the scripting languages and tools most frequently used to design and create these maps; and (2) teaches the theory and concepts underlying good Web map design so that as the technologies change in the future students will still be able to design effective Web maps. At the end of this course, students will be able to design a Web map from scratch. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 305; ESC/GEO 418/518. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring.

ESC/GEO 460/560 Cr.3

Environmental Hazards

Environmental processes are investigated in light of the hazards they might pose for development and how they may be avoided, mitigated and managed. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESC 221 or ESC 222. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Fall - Even Numbered Years.

ESC/GEO 465/565 Cr.3

Scripting in GIS

This course will teach students how to customize within GIS software using scripting and programming tools commonly used in GIS discipline. Student will learn about the conceptual and practical aspects of programming for geographic applications using Python, a free open-source scripting language. Python is well integrated with all the major GIS softwares, and a very popular language among GIS professionals. The course focuses on solving geographic problems by modifying and automating generic GIS software through programming. In this course, students will learn general and transferable scripting skills, and GIS-specific applications, including the basics of writing and modifying scripts, batch processing and automation of repetitive geoprocessing tasks, and designing complex geoprocessing tasks. The skills learned in this course are equally applicable in scientific research, the public sector, and in industry. Students taking this course must be familiar with geographic data structures, basic GIS concepts, and demonstrate basic understanding of geospatial analysis. No prior programming experience is required or expected. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 405/505. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

ESC/GEO 470/570 Cr.1-3

Special Topics in Geography/Earth Science

Specifically selected topics or skills which may be designed for the interest of special groups will be offered with formalized instruction and methodology appropriate to geography and/or earth science. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite may be required at the discretion of the department. Repeatable for credit - maximum six. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

ESC/GEO 476/576 Cr.1-3

Geography/Earth Science Topics for Teachers

Selected topics in geography and/or earth science pertinent to applications in the teachers' classrooms. Courses are designed to meet the needs of teachers so that they may implement the course material into their classroom teaching. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

ESC/GEO 485/585 Cr.3

Geographic Information System and Science III

This course covers advanced theories in geographic information systems database structures, advanced applications, database transfers, database management, use of census data, spatial analysis, and decision-making. There will be an emphasis on ARCGIS and its applications and integration of GIS with remote sensing and GPS. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: ESC/GEO 405/505; STAT 145. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Spring.

ESC/GEO 488/588 Cr.3

Spatial Data Analysis

This course covers the theory, methods, and techniques for quantitative analysis of spatial data. Students will learn and employ basic quantitative techniques for describing, modeling, and analyzing spatial data. This course explores point pattern analysis, methods for continuous data, and spatial regression. Focus will be on the interpretation and the application of spatial data analysis techniques to address geographic problems. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: GEO/ESC 405/505 or concurrent enrollment; STAT 145. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Alternate Years.

ESC/GEO 490/590 Cr.2-3

Independent Study

Individual readings and investigation of selected problems in geography. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Registration with consent of regular advisor, instructor, department chairperson, and the dean of the college in which the student is enrolled. Repeatable for credit - maximum six. Maximum three credits from any instructor. (Cross-listed with ESC/GEO; may only earn credit in one department.) Consent of instructor. Offered Fall, Winter, Spring, Summer.

ESC/GEO 495/595 Cr.1-3

Seminar in Geography/Earth Science

Investigation into various topics in geography or the earth sciences. Topics will be offered at intervals with a specific title assigned to each. Check schedule of classes for the next offered topic. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit - maximum six. Prerequisite: two semesters of geography and/or earth science. Additional prerequisites may be required by the instructor. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

GEO 734 Cr.1-3

Field Studies of World Regions

Geographic study of a selected region of the world with emphasis on guided field study and individual research problems. Library and field-work and geographic techniques of research leading to a better understanding of problems concerning another region of the world. Repeatable for credit - maximum three. Offered Occasionally.

ESC/GEO 790 Cr.1-3

Directed Study

Individual readings and investigations of selected topics in geography and earth science. Repeatable for credit – maximum three. Prerequisite: permission of the instructor and the department chair. (Cross-listed with ESC/GEO; may only earn credit in one department.) Offered Occasionally.

Graduate Registration Continuation (GRC) - Graduate Courses

Courses

GRC 795 Cr.0

Extended Continuous Registration

After completing two enrollments in GRC 799, students who are still actively engaged in research or writing and need to maintain access to university resources must continue term-to-term enrollment by registering for GRC 795 (Fall, Spring, Summer) for zero credits and paying a special course fee equal to 50% of the cost of one resident graduate credit. Enrollment in GRC 795 will provide the student with continued access to university email, library privileges, and buildings. Students register for GRC 795 only when they are not registered for any other credits. Repeatable - maximum 12 enrollments. Prerequisite: two semesters of GRC 799. Offered Fall, Spring, Summer.

GRC 798 Cr.0

Interrupted Registration

This registration is required for students who failed to meet the University's Graduate Research and Terminal Project Completion Policy (did not register for GRC 799 immediately upon completing all degree requirements in an approved program of study except for thesis, comprehensive examination, seminar paper, or other culminating project). In order to comply with the policy, students must register for GRC 798 for zero credits and pay a special course fee equal to the cost of three resident graduate credits. Prerequisite: approval by graduate program director and reentry to former academic program; approved reentry to the university. Offered Fall, Spring, Summer.

GRC 799 Cr.0

Continuous Registration

Once having completed all degree requirements in an approved program of study except for the thesis, seminar paper, comprehensive examination, or other culminating graduate projects, students must maintain continuous term-to-term enrollment (excluding winter intersession). Students meet this requirement by registering for GRC 799 for zero credits and paying a special course fee equal to the cost of one resident graduate credit. Students who require only one term after their regular coursework to complete their thesis or culminating project need to register for only for one (1) term of GRC 799. Students who need more than one (1) term after their regular coursework to complete their thesis or culminating project need to register for two and only two (2) continuous terms of GRC 799. Students who need more than two (2) terms after their regular coursework to complete their thesis or culminating project and who need continued access to university faculty, technology, facilities, and the library must register for GRC 795 each term, excluding winter. Students must register for GRC 799 (Fall, Spring) immediately following completion of all coursework. Students register for GRC 799 only when they are not registered for any other credits. To maintain access to university resources (e.g. building access) during the summer, a student must be registered for GRC 799 for either that summer or the following fall. Repeatable - maximum two enrollments. Offered Fall, Spring, Summer.

Health Education (HED) - Graduate Courses

Courses

HED 409/509 Cr.1

Stress Management and Relaxation Skills

An introduction to the detrimental effects of stress on an individual and the corresponding benefits of regular relaxation. This course will emphasize the basic skills of relaxation and will provide an experience that focuses on the practical application of these skills in one's life. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall, Spring.

HED 412/512 Cr.3

Women's Health Issues

This course will provide an opportunity for participants to identify major health issues confronting women today and to examine appropriate health prevention and health promotion lifestyle choices. It will explore health issues from the traditional medical model to the holistic model and provide a comprehensive overview of critical, contemporary women's health issues. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Occasionally.

HED 425/525 Cr.3

Violence and Injury Prevention

Participants will review the major forces leading to violent behavior and injury in the United States and globally. Trends over time will be carefully reviewed and analyzed in order to detect risk and protective factors. Violence and injury prevention strategies will be reviewed, resulting in the development of prevention and intervention proposals using community-based programming and curriculum development strategies. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall, Spring.

HED 467/567 Cr.1-2

Experiential Learning Strategies for Health Education

This course examines emerging educational processes, strategies, and issues and how they can be applied in the facilitation of health education and health promotion programs in the school and/or community setting. Topics will vary per offering and target audience. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: HED 210 or teacher certification. Offered Occasionally.

HED 469/569 Cr.3

Drugs, Society, and Human Behavior

This course is directed at introducing social, psychological, pharmacological, and cultural aspects of drug use, misuse, and abuse. In addition, the methods, materials, and theories of drug abuse prevention in the school and community will be introduced. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 100 or BIO 105. Offered Spring.

HED 471/571 Cr.2

Health Education Responsibilities, Competencies, and Certification

Participants will have the opportunity to review the National Health Educator Competencies Update Project research resulting in a new hierarchical model that serves as a framework for the responsibilities and competencies comprising the Entry, Advanced 1, and Advanced 2 levels. Each one of the seven responsibilities will be examined with practitioner examples, and a review will be conducted for the Certified Health Education Specialist (CHES) national examination. Weekend and online formats. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Occasionally.

HED 472/572 Cr.3

Sexual Health Promotion

A review of current information on health and human sexuality. Emphasis is given to biological, psychosocial and educational aspects of human sexuality with special emphasis on instructional activities related to interpersonal communication, decision-making ability and clarification of values. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ESS 205 or BIO 313, ESS 206 or BIO 312. Offered Fall, Spring.

HED 473/573 Cr.3

Health Aspects of Aging

An exploration of the lifelong aging process and an examination of health factors affecting the elderly. Emphasis is given to the changes in a variety of health areas including, but not limited to, physical activity, nutrition, mental health, long-term care, sexuality, and death, dying and grief. The course will also include a service-learning component. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: HED 210. Offered Fall, Spring.

HED 474/574 Cr.3

Nutrition Education

Basic principles of nutrition are covered as well as current problems and topics regarding both personal and world nutrition today. Designed for the public school teacher, the community health educator, or those in related fields. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall, Spring.

HED 485/585 Cr.1-3

Confrontations of Death

This course is designed to allow students to consider death both generally and on an individual basis. Various programs and experiences will be used to help individuals confront their own mortality and its relationship with the vitality of life. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Occasionally.

HED 495/595 Cr.1-3

Independent Study in Health Education

Individualized study of areas not available in existing courses. This course is taught largely at the graduate level. Repeatable for credit - maximum six. Consent of department. Offered Fall, Winter, Spring, Summer.

HED 701 Cr.3

Contemporary Issues in Health Education

Current basic issues and problems in health education. Designed to reinforce and extend the student's knowledge of contemporary health issues as they apply to the improvement of personal, family, and community health. Offered Fall.

HED 703 Cr.3

Foundations in Health Education

A study of scientific, social, psychological, ethical, legal, and educational foundations of health education. Professional competencies and practice settings will be reviewed. Applications of health concepts and effective educational strategies will increase the competencies of health education planning and program implementation. Offered Fall.

HED 706 Cr.3-6

Research Tools and Processes

The design, analysis, and interpretation of quantitative and qualitative data relative to health education, health promotion, public health, medicine, and epidemiology are covered. Attention is given to assisting students in being critical consumers of the research literature as well as designing their own studies. Prerequisite: CHE 350 or CHE 380 or equivalent. Offered Fall, Spring.

HED 709 Cr.3

Helping Children and Youth Understand Human Sexuality

Teaching sexuality education in children and youth requires the understanding of specific topics, awareness and practice of ethical and legal practices, and development of specific sensitivity skills for delivering effective sexuality education programs. In addition, educators, parents, counselors, etc., need to feel comfortable discussing the variety of sexuality topics while also having a high level of self-efficacy for the subject's delivery. This course supports these principles and provides an overview of reliable resources for children, youth, and adults. In addition, the National Teacher Preparation Standards for Sexuality Education were used for the creation of this course, in which the National Sexuality Education Standards are used as a guideline for instruction to children and youth. Offered Fall, Spring, Summer.

HED 725 Cr.1-3

Seminar in Health Education

Reading and reports on selected topics in health education. Repeatable for credit - maximum six. Prerequisite: permission of advisor. Consent of instructor. Offered Occasionally.

HED 798 Cr.1-4

Graduate Project in Health Education

This capstone experience provides the health education master's degree candidate with an opportunity for in-depth individual study of a health education problem and demonstration of advanced professional program development, implementation, and evaluation. The project will be planned and carried out under graduate faculty approval and supervision. An oral and written project presentation will be required. Repeatable for credit - maximum four. Consent of department. Offered Fall, Spring, Summer.

HED 799 Cr.1-4

Research: Master's Thesis

Independent study on a problem selected for a thesis under the direction of a graduate faculty member. Repeatable for credit - maximum four. Prerequisite: HED 706. Consent of department. Offered Fall, Spring, Summer.

Healthcare Administration (HCA) - Graduate Courses

Courses

HCA 700 Cr.3

US Healthcare Systems

Introduces the many public and private elements of the U.S. healthcare system. Explores the historical, social and cultural, financial and economic, and political, as well as regulatory factors, and how they interact to influence the delivery of care and services that affect individual and population health outcomes. Consent of department. Offered Fall, Spring.

HCA 705 Cr.3

Population Health and Epidemiology

Identifies and addresses epidemiology, biostatistics, including study design, within a healthcare framework. Applies these elements to individuals and populations while addressing critical public health perspectives across a broad spectrum from individuals to larger systems to improve the health of a community. Consent of department. Offered Fall, Spring.

HCA 710 Cr.3

Health Communication

Analysis and use of communication strategies to inform and influence individual and community decisions that impact health. Course explores topics such as the social construction of health, social support, literacy, survivorship, social and community issues, risk management, marketing and public relations, health messaging and promotional campaigns, theory application, and identity across contexts. Consent of department. Offered Fall, Spring.

HCA 715 Cr.3

Healthcare Technology, Data Analytics, and Information Governance

This course covers various topics including electronic health records; health IT privacy and security; health information exchanges; IT for revenue cycle management; utilizing technology to analyze healthcare data including MS-DRG data, hospital readmission data, Medicare spending, and healthcare quality data; technologies for diagnosis and treatment; big data applications in healthcare. Consent of department. Offered Fall, Spring.

HCA 720 Cr.3

Healthcare Financial Management

A study of the principles of healthcare finance. Topics include financial and management accounting, the financial reporting structure of healthcare organizations, healthcare financial statement analysis, costing and budgetary methods, sources of healthcare revenue and expenses, processes for healthcare billing, and capital investment decisions. Consent of department. Offered Fall, Spring.

HCA 730 Cr.3

Human Capital Management in Healthcare

Examines complexities in human resource management strategies in healthcare organizations. Provides knowledge and tools to develop high potential workforces using a people-centered approach to human capital management, organizational culture/climate, communication, and talent development to ensure competitive advantage in creating sustainable high-performance healthcare organizations in rural and urban settings. Prerequisite: HCA 700, HCA 720. Consent of department. Offered Fall, Spring.

HCA 740 Cr.3

Healthcare Operations and Project Management

Examines operations management techniques unique to healthcare processes. Addresses solutions for operational issues in healthcare facilities and supply chain. Highlights essential components of healthcare project management. Emphasizes operational and management tools and techniques for healthcare project and process execution. Prerequisite: HCA 715, HCA 720. Consent of department. Offered Fall, Spring.

HCA 750 Cr.3

Healthcare Quality and Performance Management

Overview of quality models and risk management in healthcare. Explore theories, concepts, skills, tools and environmental factors. Focuses on measurement and analysis techniques, as well as real-world applications of quality approaches to implement and sustain performance improvements. Prerequisite: HCA 715. Consent of department. Offered Fall, Spring.

HCA 760 Cr.3

Health Law and Policy

A study of the political, legal, regulatory, and ethical environments within which healthcare administrators operate. Explores the legal frameworks related to the healthcare system, with an ethical focus. Considers the impact of political structure on healthcare policy, with an emphasis on the role played by healthcare administrators in policy advocacy. Prerequisite: HCA 700. Consent of department. Offered Fall, Spring.

HCA 770 Cr.3

Organization Development and Strategic Leadership in Healthcare

A study of organization development and leadership theories, including self-discovery of leadership potential and change leadership strategies applied within healthcare organizations. As a blend of theory and application, course is designed for individuals to work toward identifying and facilitating broad-scale organizational change while employing strategic leadership practices in healthcare. Prerequisite: HCA 730, HCA 740, HCA 750. Consent of department. Offered Fall, Spring.

HCA 780 Cr.3

Communicating Current and Emerging Topics in Healthcare

Investigates current and emerging trends influencing healthcare such as healthcare policies and politics, ethics, emerging technologies, healthcare population/disease demographics and reimbursement models. Explores differences between rural, urban and global settings. Prerequisite: HCA 715, HCA 760. Consent of department. Offered Fall, Spring.

HCA 789 Cr.1

Capstone Preparation

Prepares the student for applied capstone course, including assisting with site identification, coordination and approval of placement and of a substantive work project while working with site mentor/supervisor. Prerequisite: the majority of the HCA academic program coursework should be completed prior to registering for this course, including HCA 700, HCA 710, HCA 720, HCA 730, HCA 740, HCA 750, HCA 770. Consent of department. Offered Fall, Spring.

HCA 790 Cr.3

Healthcare Administration Capstone

As a culmination of participating in the HCA Graduate Program, apply aspects of theory and dynamics of interprofessionalism in healthcare setting(s). Capstone work (minimum 150 hours) will be completed in partnership with site mentor/supervisors. A substantive work project deliverable demonstrating summative application of previous coursework will be expected. Prerequisite: the majority of the HCA academic program coursework should be completed prior to registering for this course, including HCA 700, HCA 710, HCA 720, HCA 730, HCA 740, HCA 750, HCA 770. Consent of department. Offered Fall, Spring.

Information Technology Management (ITM) - Graduate Courses

Courses

ITM 700 Cr.3

Communications for IT Professionals

This course focuses on developing communication skills for IT professionals. Students will learn how to deliver effective presentations, conduct crucial conversations with stakeholders, and develop verbal and nonverbal communication skills emphasizing cultural sensitivity, diversity, and ethics. Students will also conduct relevant research and critically evaluate information to make informed evidence-based decisions. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 705 Cr.3

Leading the IT Function

This course focuses on the differences between and application of management and leadership theories in an IT environment. Utilizing an array of assessment activities, students will identify and understand one's own personal assets and liabilities to become an effective leader and agent of change in a complex adaptive system. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 710 Cr.3

Finance for IT Managers

This course will frame financial decisions within general and project accounting principles. Topics include: pro forma financial statements, time value of money, cash flows and equivalence, depreciation, net present value, rate of return, and ratio analysis. Students will prepare budgets that prioritize projects within constraints, address uncertainty and intangibles, and integrate with project scheduling. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 715 Cr.3

Data Science

This course examines key data science concepts, methods, and processes. It addresses issues for developing, managing and supporting data-driven decision-making in the organization and provides knowledge and tools for incorporating data science into IT project workflows. Topics include, but are not limited to, data analytics, data warehousing, machine learning, and artificial intelligence. Prerequisite: ITM 710; admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 720 Cr.3

Cloud Computing and Enterprise Applications

Students will learn to leverage cloud services to streamline computing resources, deploy enterprise applications, improve user access and system reliability, and utilize advanced computing capabilities. Foundation concepts include: virtualization, multi-tenant architecture, and software defined networking. Examines the full range of services available to organizations along with deployment strategies, evaluation criteria, economic justification, and manageability. Prerequisite: ITM 710; admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 725 Cr.3

Enterprise Security

Students will explore the technical, administrative, and physical aspects of IT security. They will investigate various threats within IT and fraud and apply information classification to the design of information, network and physical security. Students will evaluate the business processes of risk, business continuity, audit, and the risk within software development. Prerequisite: ITM 700; admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 730 Cr.3

Agile and Traditional IT Project Management

This course examines project management concepts as applied to IT projects and covers traditional PMBOK techniques such as project identification, selection, procurement, and cost/schedule preparation and monitoring. Students will be introduced to agile IT project management concepts including Scrum and Extreme Programming. This course requires students to apply these concepts to group projects. Prerequisite: ITM 700, ITM 710; admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 735 Cr.3

Business Analysis for Effective IT Organizations

This course focuses on the importance, role, and techniques of the business analysis function in the modern IT organization. This course is organized around the six knowledge areas and associated techniques of the Business Analysis Body of Knowledge (BABOK) specified by the International Institute of Business Analysis. Prerequisite: ITM 710; admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 740 Cr.3

IT Operations

This course explores best practices and techniques for ensuring the smooth functioning of the IT infrastructure and operational environments to support development and deployment of applications and services within the organization. Coverage includes network infrastructure; servers and devices; computer operations; service management; facilities; help desk services, DevOps, and process automation. Prerequisite: ITM 735; admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 745 Cr.3

IT Governance, Ethics, and Regulatory Compliance

This course examines best practices in IT governance to achieve regulatory compliance, optimize use of available resources, ensure trustworthiness of enterprise information, and support business strategies and objectives. Topics include: strategic alignment, IT service and control frameworks, portfolio management, IT risk management, and ethical issues in IT governance. Prerequisite: ITM 705; ITM 735; admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 750 Cr.3

Emerging Technologies

This seminar course researches, identifies and evaluates significant new trends, technologies and events influencing the global environment of information technology and systems. The course will evaluate future and disruptive technologies, strategies for successful implementation of innovative technologies, critical thinking, and ethics pertaining to its use. Prerequisite: ITM 740; admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 754 Cr.1

Capstone Preparation

Students select their capstone project, create a plan, define deliverables, secure approval and complete setup of their development environment. Students review concepts necessary for completion of the capstone including Agile project management, systems analysis and communicating with technical and non-technical audiences. Additional topics may be included. Prerequisite: ITM 730; admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 755 Cr.3

Capstone

In this course, students complete the projects approved in the Capstone Preparation course. This course includes the management, development and delivery of an information technology project to a client or employer, including regular communication of status to both technical and non-technical audiences. Prerequisite: ITM 735; ITM 754; admission to Information Technology Management Program. Course to be taken in final semester. Consent of department. Offered Fall, Spring, Summer.

Management (MGT) - Graduate Courses

Courses

MGT 738 Cr.3

Labor-Management Relations

An in-depth examination of the process, structure, evaluation and practices of effective labor-management relations. Special emphasis will be given to the impact of unions on management, grievances, collective bargaining, arbitration, public sector, labor relations and the nature of unions. Offered Occasionally.

MGT 740 Cr.3

Current Issues in Human Resources and Industrial Relations

An in-depth investigation of selected current trends and issues of importance in human resource management and industrial relations. Topics may include: strategic human resource management, legal and social change affecting human resource management, current trends in union organizing, new developments in collective bargaining, new developments in fringe benefits and compensation, and comparative human resource management. Offered Occasionally.

MGT 795 Cr.3

Continuous Quality Improvement for Products and Processes

Course covers customer, output, process, input, stake and stock holders, and decision making functions as they relate to continuous quality improvement. The focus is on delivering the "best net value" to the customer. Students will investigate forming organizational alliances and consensus thinking; integrating corporate functions; developing customer orientation and facilitating teamwork. Site visits and guest lectures will be incorporated. Team-taught. Certificate of Proficiency will be issued upon course completion. Prerequisite: STAT 145 or equivalent. Pass/Fail grading. Offered Occasionally.

MGT 797 Cr.1-3

Independent Study

Individual reading or research under the guidance of a staff member. Registration with consent of the student's regular adviser, the instructor, and the department chairperson. Approval form available in the office of the Dean of the College of Business Administration. Form must be completed prior to registration. Repeatable for credit - maximum three. Prerequisite: admission to the MBA Program with a minimum 3.50 cum GPA; completed a minimum of 21 credits in the MBA Program. Maximum of three credits of independent study in any combination of ECO 797, FIN 797, MGT 797 and MKT 797. Consent of department. Offered Fall, Spring, Summer.

Marketing (MKT) - Graduate Courses

Courses

MKT 700 Cr.2

Marketing Principles

Marketing is the business function that identifies customer needs and wants, determines which target markets the organization can best serve, and designs appropriate products and services to serve those markets. The goal of marketing is to create customer satisfaction profitably by building value-laden relationships with customers. The goal of this course is to develop students' analytical ability and managerial perspective in the planning of comprehensive marketing programs. Prerequisite: This course is an internet MBA foundation course. Offered Annually.

MKT 749 Cr.3

Seminar in Marketing

An advanced course in marketing devoted to the exploration of new developments in marketing theory and investigation of marketing problems. Offered Occasionally.

MKT 797 Cr.1-3

Independent Study

Individual reading or research under the guidance of a staff member. Registration with consent of the student's regular adviser, the instructor, and the department chairperson. Approval form available in the office of the Dean of the College of Business Administration. Form must be completed prior to registration. Repeatable for credit - maximum three. Prerequisite: admission to the MBA Program with a minimum 3.50 cum GPA; completed a minimum of 21 credits in the MBA Program. Maximum of three credits of independent study in any combination of ECO 797, FIN 797, MGT 797 and MKT 797. Consent of instructor. Offered Annually.

Mathematics (MTH) - Graduate Courses

Courses

MTH 495/595 Cr.1-3

Special Topics in Mathematics

Special topics in mathematics not covered by regular courses taught in this department, such as topology, set theory and advanced numerical analysis. The particular topic is decided mutually by the students and the instructor. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit - maximum six. Consent of instructor. Offered Occasionally.

MTH 651 Cr.1

Number and Operations in Middle School Mathematics

A study of the mathematical concepts, properties and techniques that are fundamental to integers, rational and irrational numbers, and other number systems. Emphasis is on using mathematical reasoning, explaining concepts, justifying statements with informal logical arguments, developing mathematical models and integrating knowledge from different areas of mathematics as appropriate for middle school mathematics. Students will be expected to become knowledgeable with the results of research in the teaching and learning of numbers and operation with numbers. Prerequisite: admission to the Middle School Mathematics Certificate Program. Offered Occasionally.

MTH 652 Cr.1

Geometry and Measurement for Middle School Teachers

A study of the mathematical concepts, properties and techniques that are fundamental to two- and three-dimensional geometry, including measurement, transformations, constructions, definitions, and proofs. Emphasis is on using mathematical reasoning, explaining concepts, justifying statements with informal logical arguments, developing mathematical models and integrating knowledge from different areas of mathematics as appropriate for middle school mathematics. Students will be expected to become knowledgeable with the results of research in the teaching and learning of geometry. Prerequisite: admission to the Middle School Mathematics Certificate Program. Offered Occasionally.

MTH 653 Cr.1

Algebraic Reasoning in Middle School Mathematics

A study of the mathematical concepts, properties and techniques that are fundamental to the development of algebraic structures, including variables, patterns, algebraic expressions and operations, and solving equations. Emphasis is on using mathematical reasoning, explaining processes, describing and modeling real-world phenomena and integrating knowledge from different areas of mathematics as appropriate for middle school mathematics. Students will be expected to become knowledgeable with the results of research in the teaching and learning of algebraic concepts. Prerequisite: admission to the Middle School Mathematics Certificate Program. Offered Occasionally.

MTH 654 Cr.1

Probability for Middle School Teachers

A study of the mathematical concepts, properties and techniques that are fundamental to probability, including counting techniques, expected value, probability distributions, and conditional probability. Emphasis is on using mathematical reasoning, explaining concepts, interpreting probabilities, applying both experimental and theoretical techniques to solve problems and integrating knowledge from different areas of mathematics as appropriate for middle school mathematics. Students will be expected to become familiar with the results of research in the teaching and learning of probability concepts. Prerequisite: admission to the Middle School Mathematics Certificate Program. Offered Occasionally.

MTH 655 Cr.1

Statistics in Middle School Mathematics

A study of the mathematical concepts, properties and techniques that are fundamental to statistical analysis. Emphasis is on collecting, interpreting, and analyzing data, using the results of data analysis to make predictions and confirm or deny hypotheses, and integrating knowledge from different areas of mathematics as appropriate for middle school mathematics. Technology is used to generate displays, compute summary statistics and design presentations. Students will be expected to become familiar with the results of research in the teaching and learning of statistics. Prerequisite: admission to the Middle School Mathematics Certificate Program. Offered Occasionally.

MTH 656 Cr.1

Functions and Graphs in Middle School Mathematics

A study of the mathematical properties, graphs and applications of linear, quadratic, polynomial, exponential and power functions. Emphasis is on recognizing functional relationships, demonstrating the relationship between a function and its graph, describing and modeling real-world phenomena and integrating knowledge from different areas of mathematics as appropriate for middle school mathematics. Students will be expected to become knowledgeable with the results of research in the teaching and learning of concepts relating to functional relationships and graphical representations. Prerequisite: admission to the Middle School Mathematics Certificate Program. Offered Occasionally.

MTH 657 Cr.2

Mathematical Problem Solving in Middle School Mathematics

A study of general mathematical processes and techniques that are used to solve problems in middle school mathematics. Emphasis is on communicating logical arguments, applying a variety of problem-solving strategies, using appropriate mathematical language and analyzing both routine and non-routine problems encountered in middle school mathematics. Issues relating to the methods, materials, and the research-based teaching strategies of problem solving at the middle school level will also be discussed. Prerequisite: admission to the Middle School Mathematics Certificate Program. Offered Occasionally.

MTH 658 Cr.2

Mathematical Assessment in Middle School Mathematics

A study of current strategies and techniques to assess student knowledge and problem-solving ability in mathematics. Emphasis is on connecting assessment theory and models to teachers' practices through recognizing student errors and misconceptions, identifying prerequisite knowledge necessary for understanding of mathematical concepts, developing constructed-response questions and creating performance-based activities for assessing both procedural and conceptual mathematical understanding, and implementation of an action research plan. Prerequisite: admission to the Middle School Mathematics Certificate Program. Offered Occasionally.

MTH 697 Cr.1-3

Special Topics in Mathematics

Special topics in mathematics, mathematics education and statistics not covered by regular courses taught in the mathematics department. The particular topic selected to be determined by the mathematics department according to need and interest. Repeatable for credit. Consent of instructor. Offered Occasionally.

MTH 796 Cr.1-3

Directed Studies

Directed readings or presentation of special topics in mathematics. Repeatable for credit - maximum six. Consent of instructor. Offered Occasionally.

Medical Dosimetry (DOS) - Graduate Courses

Courses

DOS 511 Cr.2

Imaging and Localization Concepts

The treatment planning simulation process will be reviewed to include methods of accurate patient positioning, immobilization, and tumor localization. Current imaging techniques used to acquire detailed planning data for virtual simulation will be reviewed. Techniques discussed will include, but will not be limited to: CT, MRI, ultrasound, and radionuclide scans. Web-based course. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 513 Cr.1

Anatomy for Medical Dosimetrists

Anatomical structure and function which affects treatment planning processes is addressed along with identification of anatomic structures on radiographs, CT and MRI images. Web-based course. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 514 Cr.3

Physics Fundamentals for Medical Dosimetrists

Fundamental principles of physics important to the production and use of radiation for treatment purposes are reviewed and expanded. Dose measurement utilizing a variety of methods is discussed along with the appropriate instrumentation. Calibration methods for linear accelerators are also discussed. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 515 Cr.1

Computers and Networking in Radiation Oncology

This course introduces students to basic computer terminology, features of hardware, peripherals, and clinical applications in radiation oncology. Types of networking and the components involved are discussed. Specific network protocols used in healthcare, imaging, and radiation oncology will be described. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 516 Cr.1

Fundamentals of Radiation Safety

Radiation safety measures are reviewed and updated according to federal and state mandates. Web-based course. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 518 Cr.2

Professional Issues in Medical Dosimetry

This course introduces the student to professional practices of medical dosimetry including standards, scope of practice, ethics, legal perspectives, professional development, accreditation, operational issues, and continuous quality improvement (CQI) project development. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 522 Cr.2

Radiation Dose Calculations

This course introduces factors that affect dose delivered in radiation treatments and how these factors are accounted for in dose calculations. Web-based course. Prerequisite: DOS 511; acceptance into the Master of Science in Medical Dosimetry Program. Offered Spring.

DOS 523 Cr.3

Treatment Planning in Medical Dosimetry

Methods of treatment planning techniques for various diseases using single and multiple field arrangements using photons and electrons are discussed. Advanced treatment planning techniques of conformal radiation therapy including 3D treatment planning, IMRT, IGRT, Gating, Protons, and Stereotactic are also discussed. Prerequisite: DOS 511; acceptance into the Master of Science in Medical Dosimetry Program. Offered Spring.

DOS 525 Cr.2

Brachytherapy for Medical Dosimetrists

The use of Brachytherapy in radiation therapy is addressed. Characteristics of sources utilized for treatment as well as determination of source activity and dose delivered are included. Methods and instruments utilized to apply Brachytherapy treatment planning techniques to clinical treatment situations are discussed. Web-based course. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Summer.

DOS 531 Cr.3

Clinical Oncology for Medical Dosimetrists

This course covers cancer in general as well as specific disease sites, their treatment and management of patient care during treatment. Web-based course. Prerequisite: DOS 515; acceptance into the Master of Science in Medical Dosimetry Program. Offered Spring.

DOS 541 Cr.1

Radiobiology for Medical Dosimetrists

This course reviews the effect of radiation on the human body in the context of radiation treatments. It particularly focuses on factors affecting the therapeutic ratio. Web-based course. Prerequisite: DOS 522; acceptance into the Master of Science in Medical Dosimetry Program. Offered Summer.

DOS 542 Cr.1

Dosimetric Quality Assurance

The methods and importance of periodic quality assurance procedures of treatment planning equipment and processes are covered in this course. Web-based course. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 543 Cr.1

Seminar in Medical Dosimetry

This course offers students an opportunity to practice answering questions and solving problems as they review course material to prepare for the national medical dosimetry certification board exam. Web-based course. Prerequisite: DOS 531; acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 711 Cr.2

Research Methodology in Medical Dosimetry I

This course serves as an introduction of fundamental principles of research methodology and how principles are applied for conducting research in health sciences. Students will be introduced to basic terms and focus on the overall structure of the research process. The course will help students prepare to select a research topic and develop questions related to it. Library and literature resources and procedures for using them will be described in detail. Students will learn how to formulate a research hypothesis. This course will help prepare students for their own scholarly project. Web-based course. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 731 Cr.2

Research Methodology in Medical Dosimetry II

This course follows in sequence the Research Methodology in Medical Dosimetry I course and expands on research terminology. This course discusses ethical concerns and legal responsibilities associated with conducting research. Sampling, measuring instruments and statistics will be discussed in detail. Types of research will be described in detail while expanding on principles from the Research Methodology in Medical Dosimetry I course. Students will learn the process of writing and evaluating the final research report. Web-based course. Prerequisite: DOS 711; acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 741 Cr.1

Protocols and Studies in Radiation Oncology

This course provides a broad overview of cancer clinical trials. Students will discuss improving the approaches to cancer prevention, diagnosis, and treatment. Advantages and disadvantages of clinical trials for patients, the general population, and health care providers are discussed. The role of the medical dosimetrist involved in clinical trials is described in depth. Web-based course. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 750 Cr.1

Professional e-Portfolio

This course prepares students for the development of a professional e-portfolio. Students will discover the basic concepts of designing and creating an e-portfolio, terminology, and components included in a professional e-portfolio. Students will gather artifacts and materials throughout the program to develop a comprehensive e-portfolio project. The course will focus on additional components such as electronic multimedia files, course assessment components, self-reflections, achievements, and other reflective learning enhancements for the comprehensive e-portfolio. Web-based course. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 751 Cr.2

Research Methodology in Medical Dosimetry III

This course follows in sequence with the Research Methodology in Medical Dosimetry II course and serves as the culminating research course. Students will utilize peer review and editing, and various elements of individualized instruction while preparing their final research report. Students will be prepared to have their final reports in a publishable format to enter the AAMD national student writing competition. Web-based course. Prerequisite: DOS 731; acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 771 Cr.5

Dosimetry Clinical Practicum I

Students gain clinical experience in Simulation patient set-ups and imaging studies, physics and radiation safety in the clinical environment, anatomical contour segmentation, and computers and networking within the radiation oncology field. Students will begin basic calculations and treatment planning while being introduced to brachytherapy procedures. Prerequisite: DOS 511; acceptance into the Master of Science in Medical Dosimetry Program. Offered Spring.

DOS 772 Cr.5

Dosimetry Clinical Practicum II

Students continue to gain clinical experience at an affiliated clinical internship site by concentrating on more advanced treatment planning and Brachytherapy procedures while continuing to learn the various concepts of clinical oncology specific to patient treatments. Prerequisite: DOS 771; acceptance into the Master of Science in Medical Dosimetry Program. Offered Summer.

DOS 773 Cr.5

Dosimetry Clinical Practicum III

Students continue to improve their treatment planning and dosimetric skills, concentrating on advanced planning methods and quality assurance techniques. Prerequisite: DOS 772; acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 781 Cr.3

CMD Seminar I

This seminar course is the first in a series of three designed exclusively for students in the master's degree completion program (Track C) who are currently certified medical dosimetrists. The course provides the student with directed study and review of professional didactic course content. The course also provides the opportunity for practice examinations and group study support (online). Examinations will be given to test mastery of this didactic content. Students will have the opportunity to apply this didactic content in their fieldwork placements. Content covered in this course includes: Advanced Imaging, Simulation for Medical Dosimetrists, Anatomy for Medical Dosimetrists, Physics Fundamentals, and Computers & Networking in Radiation Oncology. Web-based course. Prerequisite: acceptance into Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 782 Cr.3

CMD Seminar II

This seminar course is the second in a series of three designed exclusively for students in the master's degree completion program (Track C) who are currently certified medical dosimetrists. The course provides the student with directed study and review of professional didactic course content. The course also provides the opportunity for practice examinations and group study support (online). Examinations will be given to test mastery of this didactic content. Students will have the opportunity to apply this didactic course in their fieldwork placements. Content covered in this course includes: Professional courses reviewed include Radiation Safety, Professional Issues, Dose Calculations, Teletherapy Treatment Planning, and Conformal Treatment Planning. Prerequisite: DOS 781; acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 783 Cr.3

CMD Seminar III

This seminar course is the third in a series of three designed exclusively for students in the master's degree completion program (Track C) who are currently certified medical dosimetrists. The course provides the student with directed study and review of professional didactic course content. The course also provides the opportunity for practice examinations and group study support (online). Examinations will be given to test mastery of this didactic content. Students will have the opportunity to apply this didactic content in their fieldwork placements. Content covered in this course includes: Brachytherapy, Clinical Oncology, Radiobiology, and Quality Assurance. Prerequisite: DOS 782; acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 791 Cr.4

Fieldwork I

This level one fieldwork experience is an opportunity to demonstrate the practice of medical dosimetry in the clinical environment at a basic level. The course provides an opportunity to integrate the didactic curriculum learned for the successful completion of the MDCB exam. The focus of case studies will include imaging, patient treatment setups, anatomical contour segmentation, and computers and networking physics, and radiation safety. Supervision is provided by medical physicist and radiation oncologists. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 792 Cr.4

Fieldwork II

This level two fieldwork experience is an opportunity to demonstrate the practice of medical dosimetry in the clinical environment at an intermediate level. The course provides an opportunity to integrate the didactic curriculum learned for the successful completion of the MDCB exam. The focus of case studies will include professional issues, radiation dose calculations, treatment planning, Brachytherapy, and clinical oncology. Supervision is provided by medical physicist and radiation oncologists. Prerequisite: DOS 791; acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 793 Cr.4

Fieldwork III

This level three fieldwork experience is an opportunity to demonstrate the practice of medical dosimetry in the clinical environment at an advanced level. The course provides an opportunity to integrate the didactic curriculum learned for the successful completion of the MDCB exam. The focus of case studies will include radiobiological principles, dosimetric and departmental quality assurance processes, advanced treatment planning techniques, and seminar work. Supervision is provided by medical physicist and radiation oncologists. Prerequisite: DOS 792; acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

Microbiology (MIC) - Graduate Courses

Courses

MIC 500 Cr.2

Orientation to Clinical Microbiology

This course will explore career opportunities within clinical microbiology including public health, diagnostic testing, basic and industrial research and development, and pharmaceutical sales. Discussion will focus on academic and professional requirements for each career track. The course will also cover clinical laboratory management, infection control, diagnostic techniques, and communication skills. Offered by resident faculty and visiting lecturers. Prerequisite: MIC 230 or equivalent; admission to the Clinical Microbiology Program. Offered Fall.

MIC 407/507 Cr.4

Pathogenic Bacteriology

The study of pathogenic bacteria and their relationships to disease; principles of infection and pathogenesis, and unique properties of pathogens. Laboratory emphasis is on techniques for isolation and identification of pathogenic bacteria. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 4. Prerequisite: MIC 230. Offered Fall, Spring.

MIC 410/510 Cr.2

Immunology Laboratory

Designed as an introduction to immunology techniques used in clinical and research laboratories. Includes antibody-based diagnostic tests such as ELISA and Western blot. Cell-based techniques include lymphocyte culture and flow cytometry. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: MIC 310 or concurrent enrollment. Offered Fall, Spring.

MIC 416/516 Cr.4

Prokaryotic Molecular Genetics

This course provides an in-depth study of the Central Dogma including DNA replication, transcription, and translation. In addition, specific focus is on mechanisms of gene exchange in prokaryotes including transformation (natural and artificial), conjugation, and transduction (including bacteriophage biology). Other topics covered include genetic terminology, recombination and transposition, mutagenesis and repair, and gene regulation. Laboratory emphasis is on bacterial mutagenesis, genetic exchange and cloning techniques. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Dis. 1, Lab 3. Prerequisite: MIC 230; additional 300 or higher level MIC course with a lab. Consent of instructor. Offered Fall.

MIC 420/520 Cr.3

Introductory Virology

An introduction to viruses and their interactions with host organisms. Special emphasis is placed on the structure and replication cycles of virus families with medical importance. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: MIC 230; MIC 416/516 or BIO 306 or BIO 435/535; three semesters of college chemistry to include organic chemistry. Offered Spring.

MIC 421/521 Cr.2

Virology Laboratory

A laboratory course designed to introduce fundamental techniques used to study viruses in medicine, biotechnology and research. Emphasis is on procedures used to safely handle viruses, grow them in tissue culture, and the molecular biological, biochemical and immunological techniques used to detect and analyze viruses. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lab. 4. Prerequisite: MIC 230; MIC 416/516 or BIO 306 or BIO 435/535; three semesters of college chemistry to include organic chemistry. Offered Fall.

MIC 425/525 Cr.4

Bacterial Physiology

An in-depth study of bacterial structure and function, catabolic and anabolic pathways, regulation, and macromolecular synthesis. Laboratory emphasizes techniques used to examine bacterial structure and metabolism such as macromolecular separations and quantification, use of radioisotopic tracers and quantification of enzyme activity. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 3, Disc. 1. Prerequisite: MIC 230; additional level 300 or higher MIC course with a lab; MTH 150 or higher; CHM 300 or CHM 303. Offered Spring.

MIC 427/527 Cr.3

Industrial and Fermentation Microbiology

A study of microbiology and biochemistry of food fermentations; bioconversions; production of antibiotics, vitamins, amino acids and organic acids. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: MIC 230 and two semesters of college chemistry. Offered Fall - Odd Numbered Years.

MIC 428/528 Cr.2

Fermentation Microbiology Laboratory

Principles of fermentation science and biotechnology with emphasis on industrial and food fermentation processes. Laboratory emphasis is on the use of various fermentation systems that generate useful products including fermented food and beverages, pharmaceuticals, chemicals and other gene products. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lab. 4. Prerequisite: MIC 230 and two semesters of college chemistry. Offered Occasionally.

MIC 434/534 Cr.3

Aquatic Microbial Ecology

An ecological study of bacteria, cyanobacteria and algae of aquatic ecosystems. Topics include microbial strategies for survival under various environmental conditions, the role of microorganisms in biogeochemical cycling of elements, interactions of microorganisms with other aquatic biota, the role of microorganisms in pollution problems, and applications of microbial ecology to biotechnology. Laboratory emphasis is on experimental design and sampling techniques, quantification of microbial biomass, and measurement of microbial activities in aquatic habitats. One weekend field trip required. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab. 3. Prerequisite: MIC 230 and three semesters of college chemistry. BIO 341 strongly recommended. Offered Fall - Even Numbered Years.

BIO/MIC 440/540 Cr.2

Bioinformatics

In this course, students will use computers to study and compare the sequence of nucleotides in DNA or RNA, or the amino acids in a protein. Computers also are used to examine the three dimensional structure of protein. Being able to manipulate and study this information is the basis for the current revolution in biotechnology. Topics include evolution, taxonomy, genomics and understanding disease. This course provides students an opportunity to explore the relationships between biology, microbiology, chemistry, and computer science. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 1, Lab 2. Prerequisite: BIO 306 or MIC 416/516. (Cross-listed with BIO/MIC; may only earn credit in one department.) Offered Spring, Winter.

BIO/MIC 442/542 Cr.3

Plant Microbe Interactions

This course will explore in-depth various ways that plants interact with microbes in the environment, at the macroscopic, cellular, and molecular levels. Case studies will include both parasitic and mutualistic (symbiotic) interactions. Microbes include fungi, bacteria, nematodes, and viruses. Includes plant pathology and studies of the beneficial relationships between plants and microbes. Inquiry-based labs are integrated into the lecture and discussion sessions. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 2. Prerequisite: BIO 203 or BIO 304; MIC 230. (Cross-listed with BIO/MIC; may only earn credit in one department.) Offered Fall - Odd Numbered Years.

MIC 454/554 Cr.2

Mechanisms of Microbial Pathogenicity

The study of mechanisms of microbial pathogenicity including both overt microbial factors and complex interactions with the host that produce symptoms of disease. The cellular, biochemical, molecular, and genetic bases for modern understanding of microbial disease will be included. This course is taught largely at a graduate level. Prerequisite: MIC 310 or equivalent; MIC 407/507 or equivalent. Offered Spring - Odd Numbered Years.

MIC 460/560 Cr.1-3

Symposium in Microbiology

Varying topics in microbiology with a specific title assigned to each. Offered by resident faculty or visiting lecturers. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit - maximum six. Prerequisite: MIC 230. Offered Occasionally.

BIO/MIC 714 Cr.3

Advanced Genetics

The application of molecular-genetic analysis to problems in modern biology. The course will cover the fundamentals of genetic analysis in both procaryotic and eucaryotic systems. Assigned readings from current literature will be discussed and evaluated. A variety of topic areas will be considered including ecology, biotechnology, bioremediation, food science, medicine and basic research. Prerequisite: a previous course in genetics, microbial genetics, or molecular biology. (Cross-listed with BIO/MIC; may only earn credit in one department.) Offered Spring - Odd Numbered Years.

BIO/MIC 721 Cr.1-2

Directed Studies

Directed readings or presentation of material not available in formal departmental courses. Repeatable for credit - maximum four between BIO and MIC. (Cross-listed with BIO/MIC.) Consent of instructor. Offered Fall, Spring.

MIC 730 Cr.2

Biodegradation and Bioremediation of Environmental Contaminants

Microbes are able to breakdown, or biodegrade, a wide variety of compounds including some considered hazardous to human health and/or the environment. The use of microbes as biological agents to reclaim polluted soils and waters is called bioremediation. This course will explore some of the better-studied mechanisms used by microbes to degrade and detoxify contaminants. Practical aspects for the use of microbes in bioremediation and some specific examples will also be covered. In addition, the students will present and discuss a series of special topics such as nuclear waste bioremediation or current clean-up efforts in the news. Prerequisite: one semester organic chemistry; MIC 230 or equivalent microbiology course. Offered Fall - Odd Numbered Years.

BIO/MIC 751 Cr.1

Graduate Seminar

Oral presentation and discussion of student-selected topics in biology and microbiology. Repeatable for credit - maximum two. (Cross-listed with BIO/MIC.) Offered Fall, Spring.

MIC 753 Cr.2

Epidemiology of Infectious Disease

This course examines the causes, distribution, control, and prevention of infectious disease in human populations. Basic epidemiological concepts, including study design, analysis and modeling of infectious disease data, establishing causal relationships, detecting confounding factors, and assessing risk will be presented. Emphasis will be placed on issues of special interest to the clinical epidemiologist including laboratory diagnosis used in outbreak investigations by microbiological, serological and molecular techniques. In addition, methods to evaluate the accuracy and usefulness of diagnostic tests will be examined. Prerequisite: MIC 407/507 or equivalent course. STAT 145 or PH 755. Offered Spring - Even Numbered Years.

MIC 755 Cr.2

Advanced Immunology

An in-depth study of advanced topics in immunology, primarily focusing on the genetics, mechanisms, and regulation of the immune system. Aspects of the immune response in a variety of disease conditions (infectious and non-infectious) will be discussed. Prerequisite: MIC 310 and MIC 410/510, or equivalent. Offered Fall - Odd Numbered Years.

MIC 761 Cr.1-2

Research and Seminar in Microbiology

This course is an in-depth literature review of a current research topic in microbiology. As part of the requirements for this course and for the degree each student must complete an acceptable seminar paper under the direction of an assigned faculty member. Not applicable to students pursuing a Plan A thesis. Offered Fall, Winter, Spring, Summer.

MIC 770 Cr.4

Clinical Microbiology Practicum I

Students spend at least 6 full-time weeks (40 hrs/wk) in a clinical laboratory where they receive training and hands-on experience in clinical microbiology, immunology, parasitology, mycology, and virology. In addition, students will actively participate with physicians, residents, and medical students in weekly infectious disease rounds and journal club. A special course fee applies. Prerequisite: acceptance into Clinical Microbiology MS Program. Consent of instructor. Offered Fall, Spring, Summer.

MIC 780 Cr.2-4

Clinical Microbiology Practicum II

Students spend at least 6 full-time weeks (40 hrs/wk) in the clinical laboratories at Marshfield Laboratories/St. Joseph's Hospital/Marshfield Clinic. Training will include hands-on experience with state-of-the-art molecular biology techniques. Specific exercises involving molecular epidemiology and infection control will be emphasized. Students will also participate in weekly infectious disease rounds and journal club. A special course fee applies. Students in the Clinical Laboratory Science BS/Clinical Microbiology MS Dual Degree Program will spend 3 full-time weeks (40 hrs/wk) in the clinical laboratories at Marshfield Laboratories/St. Joseph's Hospital/Marshfield Clinic with training adjusted to reflect their prior internship training. Prerequisite: acceptance into Clinical Microbiology MS Program or the Clinical Laboratory Science BS/Clinical Microbiology MS Dual Degree Program. Offered Fall, Spring, Summer.

MIC 790 Cr.2

Clinical Microbiology Practicum III

Students will spend 2-3 full-time weeks (40 hrs/wk) at the Wisconsin State Laboratory of Hygiene for public health training in mycobacteriology, sexually transmitted diseases, food-and water-borne diseases, and community respiratory illness surveillance. Emphasis will be on prevention and control programs and outbreak responses currently in place at the Wisconsin Department of Health. Prerequisite: MIC 770 and MIC 780. Offered Fall, Winter, Spring, Summer.

MIC 799 Cr.1-15

Research: Master's Thesis

Independent research in microbiology on a problem selected for a thesis under the direction of an assigned faculty major adviser. For students following Plan A. Repeatable for credit - maximum 15; maximum six applicable to degree. Consent of instructor. Offered Fall, Winter, Spring, Summer.

Occupational Therapy (OT) - Graduate Courses

Courses

OT 515 Cr.3

Functional Neuroanatomy

This course will address the anatomical basis of neuroscience with emphasis on rehabilitation. Structure and physiological function of the central nervous system will be correlated for normal and abnormal processes. Patient examples and research literature will be utilized to foster appropriate clinical decision-making skills in students. Prerequisite: admission to graduate Occupational Therapy Program. Offered Spring.

OT 520 Cr.3

Introduction to Occupational Therapy

This course introduces the fundamentals of occupational therapy. Topics include an overview of the history of the occupational therapy profession, theoretical frameworks, the OT Program curriculum design, and contemporary occupational therapy practice. Lect. 6. Prerequisite: admission to graduate Occupational Therapy Program. Offered Summer.

OT 523 Cr.4

Human Physiology

The course examines the physiological function and regulation of major organ systems and their components in the human body and after injury or disease. The course covers normal physiology as well as selected diseases. Concepts are organized by systems: endocrine, cardiovascular, respiratory, renal, gastrointestinal, nervous, hematologic, hepatic, reproductive, vascular, and genetics. Prerequisite: admission to the Occupational Therapy Program. Offered Summer.

OT 524 Cr.5

Human Anatomy

Provides an in-depth understanding of the gross anatomy of the human body through lecture, laboratory experiences, audiovisual, computer and cadaver prosection and dissection. Systems included are musculoskeletal, neurological, and skeletal. Biomechanical function, topographic and clinical applications are emphasized. Clinical applications are discussed. Lect. 2, Lab. 4. Prerequisite: admission to graduate Occupational Therapy Program. Offered Fall.

OT 526 Cr.3

Foundations of Movement

This course will apply principles of biomechanics, kinesiology, and motor control to guide understanding and analysis of movement during occupational performance. This will include the study of structure and function of the skeletal, muscular, and neuromuscular systems and their influences on normal and pathological motion. The development of movement and basic motor learning will be examined. Concepts will be explored supporting the foundations of movement and correlation with occupational performance across the lifespan. Prerequisite: admission to graduate Occupational Therapy Program. Offered Fall.

OT 530 Cr.1

Occupational Performance Analysis

This course examines theories, frames of references, and other critical concepts used in the description and analysis of occupational performance. The form, function, and meaning of occupation will be explored in relation to the Occupational Therapy Practice Framework: Domain and Process. Documentation, cultural impact, key parts of the framework, ICF, activity analysis, and therapeutic intervention techniques will be presented. Prerequisite: concurrent enrollment in OT 531; admission to graduate Occupational Therapy Program. Offered Fall.

OT 531 Cr.1

Applied Occupational Performance Analysis

This course applies key concepts used in the occupational therapy clinical practice (occupation, Framework, theory, and documentation). Activities and occupations will be analyzed for self and others through case studies, observation of others, and self reflection. Activity analysis and occupational performance analysis will be completed in relationship to individuals, groups, and populations through the use of occupations with self, observation of others, and both written and video case studies. Application of activity analysis, occupational analysis, selection and grading/adapting of activity and occupations, compensatory techniques, teaching and learning, and use of theory to guide clinical reasoning will occur. Use of occupation as it relates to design and implementation of treatment with various populations in traditional and non-traditional practice setting will be applied. Prerequisite: concurrent enrollment in OT 530; admission to graduate Occupational Therapy Program. Offered Fall.

OT 545 Cr.1

Applied Biomechanics and Kinesiology in Occupational Therapy

This course will apply principles of biomechanics and kinesiology to the understanding and analysis of movement during occupational performance. This will include the applied study of structure and function of the skeletal, muscular and neuromuscular systems and their influences on normal and pathological motion and how this may impact occupational performance. This course will apply kinesiology considerations for specific musculoskeletal regions including the head, torso, upper and lower extremities and how this relates to commonly used therapeutic treatment techniques employed by occupational therapists. Students will practice using research tools typically utilized in biomechanics and their application to a variety of movement based research questions. Prerequisite: admission to graduate Occupational Therapy Program. Offered Fall.

OT 550 Cr.2

Scholarly Practice I: Occupational Therapy Research

This course is designed to help students become familiar with the principles of measurement and the research process. Topics covered include psychometric principles of assessment (e.g. reliability, validity, standardization), tool development, research designs, and ethics of research and assessment. Prerequisite: admission to graduate Occupational Therapy Program. Offered Fall.

OT 570 Cr.1

Occupational Therapy Intervention: Group Dynamics

This course will provide students with a foundation in basic therapeutic communication skills. Models of group leadership used in occupational therapy treatment will be emphasized. Topics will include: basic styles of communication, stages of team building, group leadership in therapy, development of therapeutic use of self, conflict resolution, conflict negotiation, professional behaviors, supervision of occupational therapy staff and occupational therapy group models used in treatment. Prerequisite: concurrent enrollment in OT 571; admission to graduate Occupational Therapy Program. Offered Fall.

OT 571 Cr.1

Applied Occupational Therapy Intervention: Group Dynamics

This course will emphasize hands-on learning experiences to apply the lecture content from OT 570. Students will plan and implement a variety of client centered groups, based on occupational therapy frames of references and other common theories. Student's observation skills will be enhanced through routine applied experiences both in classroom sessions and in the community. Methods and techniques for developing professional behaviors, giving/receiving feedback, and critiquing individual communication and leadership styles will be refined during this seminar experience. Prerequisite: concurrent enrollment in OT 570; admission to graduate Occupational Therapy Program. Offered Fall.

OT 573 Cr.1

Level 1 Fieldwork: Mental Illness

This mental health field experience is designed to provide an opportunity to practice occupational therapy interventions for individuals who have mental health disorders. Beginning professional abilities, observation and initial data gathering skills will be practiced. Fieldwork will be arranged by the occupational therapy fieldwork coordinator and supervised by instructional staff. Prerequisite: admission to graduate Occupational Therapy Program. Pass/Fail grading. Offered Spring.

OT 611 Cr.2

Occupational Therapy in Acute Care Settings

Emphasis will be placed upon the ability of the student to perform creative treatments in an acute care occupational therapy setting. This course will provide the student with information about the pathophysiology of varied organ systems and the physiological control mechanisms as they pertain to the practice of occupational therapy. Students will determine the best approach to task according to how patients' present at the specific time of treatment. Students will demonstrate an understanding that patients in acute care have dynamic physiological changes, and therefore dynamic physiological needs. Patients' unique problems will be emphasized for an individualized versus cookie-cutter approach to patient care. Prerequisite: admission to graduate OT Program; satisfactorily completed all OT didactic coursework required in previous semesters. Offered Spring.

OT 630 Cr.2

Occupational Therapy Practice: Wellness Perspectives

The relationship of health, prevention, and wellness will be examined from the perspective of occupation and lifestyle redesign. Alternative and complementary medicine/therapies from various cultures and perspectives, along with literature regarding the mind/body connection, will be critically examined in relation to the provision of occupational therapy services as they relate to occupational wellness. Injury prevention programs, Life Style Redesign, community needs assessment, and grant-writing to obtain funding also will be addressed. Prerequisite: admission to graduate Occupational Therapy Program. Offered Spring.

OT 640 Cr.1

Therapeutic Adaptations in Occupational Therapy

This course will develop the students' ability to determine the need for and provide compensatory strategies for clients with physical and/or psychosocial dysfunction in different contexts. The student will design, fabricate, apply and train a client in the use of assistive technology. Assistive technologies, prosthetics, sensory aides, and wheelchair adaptations are addressed. State and federal regulations protecting various populations with dysfunction will be covered. Ergonomic and environmental modification principles will be used in home and community building assessment. Lab 2. Prerequisite: OT 530, OT 531; admission to graduate Occupational Therapy Program. Offered Fall.

OT 641 Cr.3

Health Care Systems

This course addresses the evolution of the health care industry. It will critically analyze from the perspectives of the consumer, provider, manager, and taxpayer, the greater social systems and trends that impact its present state, and include a comparison of the health care industry in other countries. Service provision will be examined from the standpoints of fiscal management, human resource management, and operations management. Advocacy and consultation, as a part of the change process, will be examined and practiced in the context of leadership in the OT profession and OT intervention contexts. Lect. 2, Disc. 1. Prerequisite: admission to graduate Occupational Therapy Program. Offered Spring.

OT 650 Cr.2

Occupations and Interventions: Pediatrics I

Content includes the child as an occupational being within contexts, e.g., the greater social/political context, typical play contexts, etc. The occupational development and roles of children ages 0 through 18 will be examined in relation to typical developmental milestones, the development of ADL's, and the development of play. The application of occupational therapy principles (evaluation and intervention), and the use of clinical reasoning will be integrated within selected occupational therapy theories (sensorimotor processing, acquisitional, motor acquisitional, NDT, biomechanical, 4 Quadrant), which, in turn, will be integrated with developmental principles, occupations, and play. The effect of selected medical conditions (failure to thrive, developmental delay, febrile seizures, muscular dystrophy, Down Syndrome, spina bifida, cerebral palsy, etc.) on occupational performance in play and ADL's will be covered as well. Prerequisite: concurrent enrollment in OT 651; admission to graduate Occupational Therapy Program. Offered Spring.

OT 651 Cr.1

Applied Occupations and Interventions: Pediatrics I

This course is designed to prepare students for their Peds Play Lab experience during the spring semester. Content and application will address play and playfulness (synthesis of content, assessment, OT theory, activity analysis, activity gradation, etc.), therapeutic use of self (modes of therapeutic interaction, verbal and non-verbal, physical, etc.), and documentation (deconstruction of test scores, synthesis of scores, clinical observations, client information, etc., for interpretation and recommendations). Activity analysis as it relates to a pediatric population, and the construction of playful, therapeutic activities will be emphasized. Prerequisite: concurrent enrollment in OT 650; admission to graduate Occupational Therapy Program. Offered Spring.

OT 660 Cr.2

Occupational Performance: Mental Illness

The focus of this course is to instruct students on occupational performance dysfunction that may occur when a person struggles with a chronic and persistent mental illness. Students will learn the occupational therapy domain and process including: evaluation, intervention, discharge planning and outcomes specifically for this population. Areas of emerging markets as well as common areas of mental health occupational therapy will be explored. Best practice and evidence used to by occupational therapists will be highlighted. Prerequisite: concurrent enrollment in OT 661; admission to graduate Occupational Therapy Program. Offered Spring.

OT 661 Cr.1

Applied Occupational Performance: Mental Illness

This hands-on experiential learning course will provide an opportunity for students to practice the administration of screenings, assessments, and evaluations commonly used in occupational therapy practice. Students will learn to design and lead therapy sessions and select effective interventions for persons with a variety of severe and persistent mental illness and cognitive disabilities. Prerequisite: concurrent enrollment in OT 660; admission to graduate Occupational Therapy Program. Offered Spring.

OT 670 Cr.2

Occupational Performance: Physical Dysfunction I

The effects of acute and chronic disability on occupational performance will be explored in the context of the adult rehabilitation patient with orthopedic conditions from diverse backgrounds. Evaluation and treatment of the adult individual with orthopedic rehabilitative needs will be emphasized. Prerequisite: OT 530, OT 531, OT 550; concurrent enrollment in OT 671; admission to graduate Occupational Therapy Program. Offered Spring.

OT 671 Cr.1

Applied Occupational Performance: Physical Dysfunction I

This course provides hands on applied learning experiences allowing students the opportunity to practice assessment tools and treatment intervention methods typically used with persons with orthopedic problems. Prerequisite: OT 530, OT 531, OT 550; concurrent enrollment in OT 670; admission to graduate Occupational Therapy Program. Offered Spring.

OT 700 Cr.1

Physical Agent Modalities

This course will develop the student's ability to use superficial and deep thermal/electrotherapeutic physical agent modalities as part of an occupational therapy treatment plan. Students will develop skills in safe and effective applications of these modalities as well as understanding the underlying principles, indications and precautions/contradictions for these modalities. Students will learn how to document the use of modalities and how to complete client education regarding physical agent modalities. In addition students will develop an understanding of practice guidelines regarding use of modalities in occupational therapy. Lab 2. Prerequisite: OT 524, OT 670, OT 671; admission to graduate Occupational Therapy Program. Offered Summer.

OT 720 Cr.1-3

Selected Topics in Occupational Therapy

This course offers in-depth study of particular concepts, clinical specialties, and/or non-traditional practice areas in occupational therapy. Topics are selected by the instructor and/or as developed by student/faculty dialogue to meet special interests and needs. Topics are relevant to occupational therapy education, and are not found elsewhere in the university curriculum. Repeatable for credit - maximum six. Departmental option for pass/fail grading. Prerequisite: admission to graduate Occupational Therapy Program. Offered Occasionally.

OT 723 Cr.2

Occupational Science

This course will explore the unique contributions of occupational science that drive the field of occupational therapy. Students will investigate the impact of occupational engagement and correlation to health and well-being while comparing/contrasting contexts at the national and international level. Factors of diversity affecting occupational engagement will be examined to promote client-centered approaches and use of meaningful occupations for persons, groups, and populations. Prerequisite: completion and passing grade in fall 1 coursework; admission to graduate Occupational Therapy Program. Pass/Fail grading. Offered Spring.

OT 724 Cr.1

Occupational Therapy Practice in a Global Context

Students will explore firsthand how the context of health care systems, education, political and social systems impact occupational therapy services. This will be achieved by traveling to the UK over spring break. While visiting the host university, students will attend occupational therapy courses to evaluate how education can impact OT services. They will complete OT job shadowing and evaluate similarities and differences in OT practice. To maximize the cultural experience, students will be hosted by a UK occupational therapy student. Prior to the travel experience, students will participate in travel orientation sessions to prepare them professionally and personally for the experience. Following the travel portion of the course, students will be attending debriefing sessions to process what they have learned. They will then share this with UWL students attending OT 723 International Perspectives in Occupational Therapy. Students will be responsible for all travel and related expenses while abroad. Prerequisite: second year OT student; admission to graduate Occupational Therapy Program. Pass/Fail grading. Offered Spring.

OT 726 Cr.1

Fieldwork Seminar

This course will address critical issues directly related to professional development, fieldwork preparation, and licensure and certification prior to beginning Level II fieldwork. Strategies for successful Level II fieldwork experience, goal setting, and continued competencies are highlighted. Professional skills such as leadership, quality improvement, and professional advocacy will be addressed. Students will, additionally, be challenged to create a professional development plan. Teaching methods in this seminar format course will include: small group discussion, experiential learning groups and group projects. Prerequisite: completion of Level I Fieldwork requirements and all didactic courses required through Fall II; admission to graduate Occupational Therapy Program. Offered Spring.

OT 730 Cr.2

Occupational Performance: Physical Dysfunction II

The effects of acute and chronic disability on occupational performance will be explored in the context of the adult rehabilitation patient of diverse backgrounds with neurological conditions. Evaluation and treatment of the adult individual with neurological rehabilitative needs will be emphasized. Prerequisite: concurrent enrollment in OT 731; admission to graduate Occupational Therapy Program. Offered Fall.

OT 731 Cr.1

Applied Occupational Performance: Physical Dysfunction II

This course provides hands on applied learning experiences allowing students the opportunity to practice occupational therapy assessment tools and treatment intervention methods typically used with persons with neurological problems. Prerequisite: concurrent enrollment in OT 730; admission to graduate Occupational Therapy Program. Offered Fall.

OT 740 Cr.2

Occupations and Interventions: Pediatrics II

This course is the second unit in a two-semester sequence of the study of pediatric population. Content emphasized in the lecture course includes the child as an occupational being within contexts, e.g., the greater social/political context, typical social contexts for play/interaction, educational contexts, family contexts, and practice contexts. The occupational development and roles of children ages 0 through 18 will be examined in relation to typical psychosocial development, social participation, and educational performance. Other content pertains to visual perceptual development, and fine motor/handwriting development. The application of OT principles (evaluation and intervention), and the use of clinical reasoning will be integrated within selected frames of reference (visual information analysis, psychosocial, coping, social participation, and sensory processing), which, in turn, will be integrated with developmental principles and play. The effect of selected medical conditions (including but not limited to learning disorders, emotional behavioral disorders, autism, and visual/auditory disorders) will be examined in relation to occupational performance. Prerequisite: OT 650, OT 651; concurrent enrollment in OT 741; admission to graduate Occupational Therapy Program. Offered Fall.

OT 741 Cr.1

Applied Occupational and Interventions: Pediatrics II

OT 741 provides the students with an opportunity to practice didactic content in OT 740, develop competence in administering pediatric assessments, apply sound clinical reasoning to selection of assessments and planning intervention for children with various conditions in a variety of contexts (medical, school, home, etc.). Students will apply theory and relevant evidence in assessment and intervention choices. Prerequisite: concurrent enrollment in OT 740; admission to graduate Occupational Therapy Program. Offered Fall.

OT 751 Cr.1

Scholarly Practice II: Journal Club

This discussion group applies the concepts presented in OT 550 through reading, analyzing, and discussing scholarly literature. Students will read scholarly literature, critique using a given format, come prepared to facilitate group discussion with peers. Prerequisite: OT 550; admission to graduate Occupational Therapy Program. Offered Spring.

OT 760 Cr.3

Scholarly Practice III: Research Seminar

This course is the third in a series of five Scholarly Practice courses. It analyzes the similarities and differences between the inquiry process and practice, and the influence of context on the data gathering process. Students participate in beginning level data collection and analysis in both qualitative and quantitative paradigms of inquiry, including the use of SPSS. Students will write and share their results in paper and poster formats. Lect. 2, Lab. 1. Prerequisite: OT 550, OT 751; admission to graduate Occupational Therapy Program. Offered Summer.

OT 770 Cr.2

Scholarly Practice IV: Evidence-Based Practice

This course is the fourth in the series of scholarly practice courses. This course will introduce students to concepts of occupational therapy evidence-based clinical practice. It includes application and comparison of several rubrics for evaluating levels of evidence, searching strategies for locating completed reviews, and participation in evidence-based reviews of the literature. Students will further develop expertise at reading professional literature and scholarly writing in this course. Prerequisite: admission to graduate Occupational Therapy Program. Offered Fall.

OT 775 Cr.1

Critical Analysis of Practice

This course applies the OT Practice Framework using case studies. Case studies will include information gathered from OT 790 Level I Physical Dysfunction fieldwork experiences. These cases will be typical to occupational therapy practice and will require a synthesis of material from several courses. Working alone or in groups, students will use clinical reasoning and reflective practice to process case studies with various types of clients in a variety of practice contexts and environments. All cases will include critical thinking skills that will be required by practicing therapists in today's health care arena as well as enable students to explore issues important to the practice of occupational therapy (i.e. the occupational therapy process, evaluation, evidence-based intervention, theory/models/frames of reference, ethical issues, and justification of services.) Additionally, students will explore emerging market areas of interest in the OT profession and share with peers to advocate for change in service delivery in the health care system. Prerequisite: OT 790; admission to graduate Occupational Therapy Program. Offered Fall.

OT 776 Cr.2

Occupations and Interventions: Older Adult

Occupational performance in the aging population will be explored with emphasis on the impact of disease or injury in the older adult population from diverse backgrounds. Specific focus will be on analysis of the socio-cultural, environmental and personal life roles of the elderly as well as those disease/dysfunction processes that frequently impact this population. Prerequisite: concurrent enrollment in OT 777; admission to graduate Occupational Therapy Program. Offered Fall.

OT 777 Cr.1

Applied Occupations and Interventions: Older Adult

This course provides hands on applied learning experiences allowing students the opportunity to practice the occupational therapy process of observation, evaluation, analysis and treatment of the older adult population. Prerequisite: concurrent enrollment in OT 776; admission to graduate Occupational Therapy Program. Offered Fall.

OT 778 Cr.2

Impact of Psychosocial Issues on Occupation

During the 2-hour lecture, a variety of psychosocial issues that may affect the therapeutic relationship and the client's occupational performance, e.g., self-concept, motivation, coping strategies, resiliency, body image, sexuality, and culture, will be explored and problems that may occur during therapy, e.g., conflicts and empathic breaks, will be addressed. Additionally, students will have the opportunity to explore their own values and beliefs and develop an understanding of how these may affect the therapeutic relationship. Students will compare and contrast national and international theories and models of occupational therapy (e.g., MOHO, PEOP, the Kawa Way) and discuss how clinicians might use this information. Prerequisite: admission to graduate Occupational Therapy Program. Offered Fall.

OT 780 Cr.1

Scholarly Practice V: Scientific Writing

This is the final course in the five-course sequence of scholarly practice. Principles of scientific and grant writing, guidelines for APA format and information on searching for grants will be presented. Prerequisite: concurrent enrollment in OT 781; admission to graduate Occupational Therapy Program. Offered Spring.

OT 781 Cr.1

Applied Scholarly Practice V: Scientific Writing

The applied seminar will follow a writers' workshop format: the students will review and give feedback to each other and receive feedback from faculty on a variety of written projects. Prerequisite: concurrent enrollment in OT 780; admission to graduate Occupational Therapy Program. Offered Spring.

OT 785 Cr.1

Adult Clinical Practice

This course is a one hour lecture that includes close examination of the Occupational Therapy Process. Using occupational therapy theories, research, and knowledge from previous courses students will work with course instructor and other students to develop an assessment plan, treatment plans, recertification, and discharge planning with a community volunteer. Students will develop and provide occupational therapy in-services to mimic treatment rounds and continuing education development in a clinical setting. Students will discuss and examine occupation, roles, and participation in relation to occupational performance. Medical conditions and their influence on health, wellness, and participation will be examined. Prerequisite: concurrent enrollment in OT 786; admission to graduate Occupational Therapy Program. Offered Spring.

OT 786 Cr.1

Applied Adult Clinical Practice

This course is a two hour seminar that includes implementation of the Occupational Therapy Process and supervised hands on experience of adult clinical practice. Using occupational therapy theories, research, and knowledge from previous courses students will work with course instructor and other students to implement an assessment plan, treatment plans, recertification, and discharge planning with a community volunteer. Prerequisite: concurrent enrollment in OT 785; admission to graduate Occupational Therapy Program. Offered Spring.

OT 787 Cr.1

Pediatric Clinical Practice

This course is a one-hour lecture that examines the occupational therapy process. Using occupational therapy theories, research, and knowledge from previous courses, students will work with course instructor and other students to develop an assessment plan, treatment plans, and discharge planning with a volunteer child and family from the community. Participation in the lecture is as a simulated team meeting. Students will discuss and examine occupation, roles, and participation of children and their families with a community volunteer family. Medical and developmental conditions and their influence on health, wellness, and participation will be examined. Prerequisite: OT 650, OT 651, OT 740, OT 741; admission to the graduate Occupational Therapy Program. Offered Spring.

OT 788 Cr.1

Applied Pediatric Clinical Practice

This course is a two-hour seminar that includes practice of implementing the Occupational Therapy Process in pediatric clinical practice with supervised, hands-on experience of pediatric therapists. Using occupational therapy theories, research, and knowledge from previous courses, students will work with course instructor and other students to implement an assessment plan, treatment plans, and discharge planning with a community volunteer child and family. Students will develop and provide occupational therapy services under supervision. Students will discuss and examine occupation, roles, and participation in relation to occupational performance. Medical and developmental conditions and their influences on health, wellness, and participation of children and the family will be examined. Prerequisite: concurrent enrollment in OT 787; admission to the graduate Occupational Therapy Program. Offered Spring.

OT 790 Cr.1

Level I Fieldwork: Physical Dysfunction

This 30-hour fieldwork will provide an opportunity for students to observe and practice occupational therapy in a clinical setting with a variety of diverse populations. Professional abilities including cultural sensitivity, the use of occupation within a clinical setting, preliminary documentation and assessment skills will be experienced. Fieldwork will be arranged by the occupational therapy academic fieldwork coordinator and supervised by clinical fieldwork educators. Prerequisite: admission to graduate Occupational Therapy Program. Pass/Fail grading. Offered Fall.

OT 791 Cr.1

Level I Fieldwork: Pediatrics

This course is designed to give students an opportunity to observe and participate in the OT process as much as possible in a pediatric setting. Students will be expected to practice professional behaviors at all times. On a level that is appropriate to their setting and in accordance with their clinical supervisor, students will be expected to participate in evaluation, treatment planning, treatment implementation, and beginning documentation as it relates to the population and context in which they are assigned. Sustained observation, reasoning in action, and therapeutic use of self will be practiced. 40 hours. Prerequisite: OT 650, OT 651; admission to graduate Occupational Therapy Program. Pass/Fail grading. Offered Winter.

OT 795 Cr.6

Level II Fieldwork

The Level II Fieldwork experience provides the student with a 12-week clinical placement in a practice setting under the supervision of an approved occupational therapy clinical fieldwork educator. Students will practice occupational therapy assessment, interventions, measuring outcomes, and documentation. This course provides opportunities to apply didactic learning in clinical practice. Students are required to complete six months of full time fieldwork within a 24 month period. This 12-week course is repeated one time for a total of 24 weeks. Repeatable for credit – maximum 12. Prerequisite: admission to graduate Occupational Therapy Program. Pass/Fail grading. Offered Fall, Summer.

OT 798 Cr.1-6

Independent Study in Occupational Therapy

Independent, in-depth study of some specific problem or area in occupational therapy. This course shall be taken under the direction and supervision of a member of the occupational therapy faculty. Repeatable for credit – maximum six. Prerequisite: admission to graduate Occupational Therapy Program. Offered Occasionally.

OT 799 Cr.1-4

Research: Master's Thesis

An independent research project is to be selected and executed under the direction of an OT department faculty member by those students electing to pursue a thesis track. The project may be in any area related to occupational therapy. Repeatable for credit – minimum four credits, maximum six. Prerequisite: OT 760; admission to graduate Occupational Therapy Program. Pass/Fail grading. Offered Occasionally.

Physical Therapy Studies (PTS) - Graduate Courses

Courses

BIO/PAS/PTS 509 Cr.3

Human Gross Anatomy

A comprehensive consideration of human gross anatomy. Systems included are musculoskeletal, neurological, urogenital, gastrointestinal and cardiopulmonary. Function, development, and topographic correlations are emphasized as a means toward evaluating clinical applications. Biomechanical function, topographic and clinical applications are emphasized. Prerequisite: admission to the Biology CRNA Program, PAS Program, or DPT Professional Program; concurrent enrollment in BIO/PAS/PTS 510 under same department. (Cross-listed with BIO/PAS/PTS; may only earn credit in one department.) Offered Summer.

BIO/PAS/PTS 510 Cr.3

Applied Human Gross Anatomy

A comprehensive consideration of human anatomy including both neuro-musculoskeletal components and internal organ systems. Systems included are musculoskeletal, neurological, urogenital, gastrointestinal, and cardiopulmonary. The course provides an in-depth understanding of the gross anatomy of the human body through regional dissection. This understanding will then be demonstrated through the application of anatomy within clinical presentations. Prerequisite: admission to the Biology CRNA Program, PAS Program, or DPT Professional Program; concurrent enrollment in BIO/PAS/PTS 509 under same department. (Cross-listed with BIO/PAS/PTS; may only earn credit in one department.) Offered Summer.

PTS 512 Cr.4

Medical Physiology

The course examines the physiological function and regulation of major organ systems and their components in the human body and after injury or disease. The course covers normal physiology and interaction of body systems as well as selected diseases or injury. Concepts are organized by systems: endocrine, cardiovascular, respiratory, renal, gastrointestinal, nervous, hematologic, hepatic, reproductive, vascular, and genetics. Prerequisite: admission to DPT Professional Program. Offered Summer.

PTS 516 Cr.1

Physiological Regulation of Exertion and Disease

This course is designed to provide the student with an overview of the physiological basis of activity. The course emphasizes the various changes brought on by exercise to the normal and abnormal physiological systems. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 1 courses; concurrent enrollment in PTS 517. Offered Fall.

PTS 517 Cr.1

Applied Physiological Regulation of Exertion and Disease

This applied course is designed to provide the student with an opportunity to apply the physiological principles in the evaluation of health and performance related fitness. Methods and protocols appropriate for screening for physical activity, health appraisal, assessment, and exercise prescription for apparently healthy individuals or those with controlled disease. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 1 courses; concurrent enrollment in PTS 516. Offered Fall.

PTS 518 Cr.1

Motor Control, Learning and Development

This course will provide a theoretical and research evidence basis for normal movement via motor control, motor learning, and motor development literature. Students will formulate a basic understanding of what is known about typical control, learning and development of movement and how available knowledge applies to motor re-learning and control after a lesion or injury. These concepts will be discussed with respect to multiple patient populations and atypical movement will be introduced. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 519. Offered Spring.

PTS 519 Cr.1

Applied Motor Control, Learning, and Development

This course will explore principles of motor behavior within the context of interactive labs. Principles of motor behavior (motor control, motor learning, and motor development) will be applied to both typical and atypical populations. Students will practice applying what is known about control, learning and development of movement to motor re-learning and control after lesion or injury. These concepts will be discussed with respect to multiple patient populations and atypical movement will be introduced. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 518. Offered Spring.

PTS 520 Cr.1

Introduction to Physical Therapy Practice and Evaluation Techniques

This course is designed to expose the student to the multiple roles and professional behavior expectations of the physical therapist and gain insight into the importance of these roles in the context of today's health care system. This course will also introduce the student to the role of patient examination with emphasis on tests and measures related to palpation, goniometry and muscle strength testing. This course is concurrently taught with anatomy so students may apply knowledge of human anatomy to a clinical environment. Prerequisite: concurrent enrollment in PTS 521; admission to DPT Professional Program. Offered Summer.

PTS 521 Cr.2

Applied Introduction to Physical Therapy Practice and Evaluation Techniques

This course is taken concurrently with Introduction to Physical Therapy Practice & Evaluation Techniques (PTS 520). The applied experiences are designed to provide an opportunity to practice physical therapy examination with emphasis on tests and measures related to palpation, goniometry, and muscle strength testing. Prerequisite: concurrent enrollment in PTS 520; admission to DPT Professional Program. Offered Summer.

PTS 523 Cr.1

Physical Agents

This course provides an understanding of the physiological basis, scientific rationale for, and clinical application of: thermal, electrophysiology/electrotherapy, and electromagnetic physical agents. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 1 courses; concurrent enrollment in PTS 524. Offered Fall.

PTS 524 Cr.1

Applied Physical Agents

This course is taken concurrently with "Physical Agents" (PTS 523). The applied experiences are designed to provide an opportunity to practice the clinical application and clinical decision making of: thermal, electrophysiology/ electrotherapy and electromagnetic physical agents. Strategies and techniques to manage pain, edema, soft tissue dysfunction, loss of motion and weakness through direct interventions will be covered. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 1 courses; concurrent enrollment in PTS 523. Offered Fall.

PTS 525 Cr.2

Kinesiology and Biomechanics of Normal and Abnormal Movement

The principles and theories of the biomechanics of human motion will be presented to develop analytical skills needed to assess normal and abnormal movement. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 1 courses; concurrent enrollment in PTS 526. Offered Fall.

PTS 526 Cr.1

Applied Biomechanics and Kinesiology of Movement

This course provides introductory activities used in the development of student analytical skills to enable the assessment of normal and abnormal movement from a biomechanical perspective. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 1 courses; concurrent enrollment in PTS 525. Offered Fall.

PTS 527 Cr.3

Clinical Foundations of the Physical Therapy Examination

This course is designed to instruct future clinicians on how to implement the examination/evaluation component of the Patient/Client Management Model of Physical Therapy. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 1 courses; concurrent enrollment in PTS 528. Offered Fall.

PTS 528 Cr.2

Applied Clinical Foundations of the Physical Therapy Examination

This course will emphasize the skills of obtaining a client history, performing a systems review and selecting and administering appropriate tests and measures that have been presented in "Clinical Foundations of the Physical Therapy Examination. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 1 courses; concurrent enrollment in PTS 527. Offered Fall.

PTS 535 Cr.2

Functional Neuroanatomy

This course will provide a detailed examination of the gross components associated with the central nervous system. This examination will be correlated with a review of the peripheral nervous system. Together, this information will be used to provide functional considerations of the nervous system that will then be used to explore the foundational basis for clinical applications in neurologic evaluation and interpretation. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 536. Offered Spring.

PTS 536 Cr.1

Applied Functional Neuroanatomy

This course will focus on the physical identification of structures associated with the central nervous system. This identification will occur through dissection, examination of stained sections and models, and through an overview of clinical imaging studies. These structures will be correlated with functional understandings to provide a basis for solving clinical relevant problem sets. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 535. Offered Spring.

PTS 542 Cr.3

Research and Applied Statistics

Research design and statistics with an emphasis on clinical research is the focus of this course. The course will discuss statistical methods used in critically evaluating the literature, the impact of research design on statistical analysis, the practical use of statistics and their application to clinical practice. Students will build on course content developed in "Foundations of Clinical Research" (PTS 545). Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in spring 1 courses. Offered Summer.

PTS 543 Cr.1

Instrumentation for Human Movement

Development of knowledge and skills necessary for interpretation of human movement data pervasive in contemporary physical therapy literature. Topics will include methods of data acquisition using a force platform, pressure platform, pressure insoles and mats, video based motion analysis, posturography, and electromyography (EMG) as well as methods of processing, analyzing, and interpreting data. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in spring 1 courses; concurrent enrollment in PTS 544. Offered Summer.

PTS 544 Cr.1

Applied Instrumentation for Human Movement

Development of practical skills and experience in collecting human movement data with instrumentation. Data analysis and written reports associated with the analysis of movement will be required. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in spring 1 courses; concurrent enrollment in PTS 543. Offered Summer.

PTS 545 Cr.1

Foundations of Clinical Research

Research methodology with an emphasis on clinical research is the focus of this course. Methods for critically evaluating the literature, literature search strategies, ethics in research, issues of control, measurement, and basic elements of research design will be discussed. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 546. Offered Spring.

PTS 546 Cr.1

Applied Foundations of Clinical Research

Students will identify a gap in our knowledge base using primary literature and formulate a specific research question that could be answered using available resources. Students will develop a research proposal and oral defense of their research question, proposed methods, and expected clinical relevance. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 545. Offered Spring.

PTS 611 Cr.2

Pathophysiology

This course will provide the student with information about the pathophysiology of various organ systems and physiological control mechanisms as they pertain to the practice of physical therapy. Emphasis will be placed upon the ability of the student to perform differential diagnosis in a physical therapy setting and to determine when further diagnostics may be indicated. Patient problems will be utilized to allow students to practice differential diagnosis and problem solving. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 1 courses. Offered Fall.

PTS 619 Cr.2

Early Intervention and Acute Care Physical Therapy

This course teaches the principles of care and therapeutic interventions used to treat patients during acute care and early intervention. Principles relate to healing status, prevention of injury, and rehabilitation for functional mobility. Content will focus on health care communication, early care techniques, and durable medical equipment to support mobility in the inpatient environment, home, and community. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 620. Offered Spring.

PTS 620 Cr.1

Applied Early Intervention and Acute Care Physical Therapy

This course will emphasize skill development to support physical therapy intervention targeting Early Intervention and Acute Care. Students will practice health care communication techniques, the prescription and fit of durable medical equipment, and therapeutic techniques to support rehabilitation of functional mobility. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 619. Offered Spring.

PTS 623 Cr.1

Integument System

In this course, the student will build on basic skin anatomy, physiologic basis of skin nourishment and repair, and biomechanical stresses that can impact on the skin. Factors predisposing the skin to breakdown will be presented as will preventive measures where appropriate. The student will learn specific examination and intervention techniques utilized in treating specific integumentary conditions including burns, wound care, and amputations. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in spring 1 courses; concurrent enrollment in PTS 624. Offered Summer.

PTS 624 Cr.1

Applied Integument System

In this course, the student will build on basic skin anatomy, physiologic basis of skin nourishment and repair, and biomechanical stresses that can impact on the skin. Factors predisposing the skin to breakdown will be presented as will preventive measures where appropriate. The student will learn specific examination and intervention techniques utilized in treating specific integumentary conditions including burns, wound care, and amputations. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in spring 1 courses; concurrent enrollment in PTS 623. Offered Summer.

PTS 625 Cr.3

Physical Therapy Management of the Cardiovascular/Pulmonary System

This course focuses on normal and abnormal structure and function of the cardiovascular, pulmonary and lymphatic systems with emphasis on medical and other therapeutic strategies. Emphasis is placed on preventative measures and interventions for cardiac and pulmonary patients. Students evaluate current literature to support evidence-based practice and use a problem-solving approach to evaluate and manage patients. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 626. Offered Spring.

PTS 626 Cr.1

Applied Physical Therapy Management of the Cardiovascular/Pulmonary System

This course is taken concurrently with "Physical Therapy Management of the Cardiovascular/Pulmonary System" (PTS 625). The applied experiences are designed to provide an opportunity to practice examinations, evaluations, and interventions from cardiovascular, pulmonary and lymphatic cases and demonstrate psychomotor proficiency in each procedure. In addition, during this applied laboratory course the students are expected to integrate and synthesize information from a variety of problem-solving experiences. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 625. Offered Spring.

PTS 627 Cr.1

Therapeutic Exercise and Manual Therapy

This course teaches principles of intervention techniques used to treat patients following injury or illness. Content will focus on techniques of manual therapy, flexibility, strength and power training and functional recovery. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 628. Offered Spring.

PTS 628 Cr.1

Applied Therapeutic Exercise and Manual Therapy

This course will emphasize the psychomotor skills utilized to perform the material presented in "Therapeutic Exercise and Manual Therapy" (PTS 627). Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 1 courses; concurrent enrollment in PTS 627. Offered Spring.

PTS 631 Cr.2

Professionalism and the Ethos of Care

This course will give students an opportunity to search what it means to be in a caring profession. Students will explore the ethics of professional practice, fiduciary relationships, the rights and duties associated with the patient/therapist relationship and the role character plays in clinical decision-making. In response to the underlying values of respect for society, self and others, students will also explore the psychosocial variables that impact people with disabilities and their ability to cope. This course will emphasize the ethos of caring for others as a health professional, including diverse patient populations. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses. Offered Fall.

PTS 651 Cr.1

Fieldwork: Introduction to Clinical Learning

A clinically based learning experience with an emphasis on practicing recently learned clinical skills on a patient population. Students will gain experience with medical chart reviews, taking subjective patient histories, practicing early assessment and intervention skills, performing basic patient handling techniques and exploring the role of a physical therapist within the health care team. Patient population will vary according to clinical setting where student is assigned. Prerequisite: admission to DPT Program; in good standing in program (academic & professional behaviors); successful progression through all preceding didactic coursework; completion of all clinical education preparatory material described in course syllabus. Pass/Fail grading. Offered Winter.

PTS 700 Cr.1-3

Selected Topics in Physical Therapy

This course offers in-depth study of particular concepts, clinical specialties, and/or non-traditional practice areas in physical therapy. Topics are selected by the instructor and/or as developed by student/faculty dialogue to meet special interests and needs. Topics are relevant to physical therapy education, and are not found elsewhere in the university curriculum. Repeatable for credit - maximum six. Prerequisite: admission to DPT Professional Program. Pass/Fail grading. Offered Fall, Spring.

PTS 701 Cr.1

Applied Adult Clinical Practice

This course provides the students with supervised hands-on experience working with adults with impairments and movement dysfunctions in a clinic type setting (health promotion/wellness). Students will incorporate theory, evidence, foundational science, and clinical skills under the general supervision of a physical therapist. Repeatable for credit - maximum two. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses; PTS 751. Pass/Fail grading. Offered Fall, Spring.

PTS 702 Cr.1

Contemporary Practice in Neuromusculoskeletal Physical Therapy

This course will emphasize the implementation of the patient/client management model that reflects contemporary practice in neuromusculoskeletal physical therapy. The focus will be on content that is not covered in the standard neuromusculoskeletal content of the physical therapy curriculum. This course will also emphasize the instruction and implementation of the psychomotor skills needed to perform evidence-based hands on skills that reflect contemporary practice. The topics of this class will build upon the foundation of material already presented in the other neuromusculoskeletal courses sequenced in the curriculum. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 2 courses. Pass/Fail grading. Offered Spring.

PTS 703 Cr.1

Clinical Anatomy Review

This course will provide a review of neuromusculoskeletal anatomy that would be useful to the new or practicing clinician. Specific attention will be paid to an anatomical examination of diagnostic and therapeutic procedures. The topics of this class will build upon the foundation of anatomical and clinical courses from discipline specific curriculum. Prerequisite: admission to DPT, OT, or PAS Program; or health career professional. Pass/Fail grading. Offered Spring.

PTS 709 Cr.1

Health and Wellness in Physical Therapy Practice

In this course, students will focus on the role of the physical therapist in promoting principles of health and wellness for the purpose of risk identification and fitness promotion for individuals, groups, and communities throughout the lifespan by utilizing educational and prevention programs. Issues of health behavior, community access, efficacy of individual and group programs, and the development of health promotion programs will be explored. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses. Offered Fall.

PTS 710 Cr.1

Applied Health and Wellness in Physical Therapy Practice

In this course, students will implement a community service-learning project to promote health and wellness for the purpose of risk identification and/or fitness promotion for individuals, groups, and/or communities. Outcomes of the program will be assessed and presented. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 2 courses; PTS 709. Offered Spring.

PTS 711 Cr.2

Pharmacology

This course is designed to provide coverage of typical pharmacologic agents encountered in both inpatient and outpatient rehabilitation settings. Content includes pharmacodynamics, pharmacokinetics, and biotransformation of drugs. Special emphasis will be placed on drugs that are commonly used to treat people receiving physical therapy. This course will likewise address how drug therapy interacts with physical therapy, and how drugs can exert beneficial effects as well as adverse side effects that impact on rehabilitation. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 2 courses. Offered Spring.

PTS 712 Cr.1

Clinical Radiology

This course presents an overview of medical diagnostics emphasizing indications and implications for imaging studies used to augment information obtained from the physical therapy examination. Topics include plain film x-ray, ultrasound, computed tomography, magnetic resonance imaging, and nuclear imaging. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses. Offered Fall.

PTS 715 Cr.2

Musculoskeletal Examination and Intervention: Lower Extremity

This course will emphasize the implementation of the patient/client management model in the realm of musculoskeletal physical therapy of the lower extremity. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses; concurrent enrollment in PTS 716. Offered Fall.

PTS 716 Cr.1

Applied Musculoskeletal Examination and Interventions: Lower Extremity

This course will emphasize the psychomotor skills included in the patient/client management model and utilization of material presented in "Musculoskeletal Examination and Treatment: Lower Extremity. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses; concurrent enrollment in PTS 715. Offered Fall.

PTS 717 Cr.1

Clinical Teaching

This course explores the knowledge and skills required by physical therapists to educate patients, family members, other health care providers, colleagues, and future students. The role of a physical therapist as an educator will be thoroughly explored. The importance of becoming a lifelong learner will also be addressed. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses; concurrent enrollment in PTS 718. Offered Fall.

PTS 718 Cr.1

Applied Clinical Teaching

In this course, students will apply the knowledge and skills required by physical therapists to educate patients, family members, other health care providers, colleagues, and future students. The role of a physical therapist as an educator will be thoroughly explored. The importance of becoming a lifelong learner will also be addressed. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses; concurrent enrollment in PTS 717. Offered Fall.

PTS 728 Cr.2

Musculoskeletal Evaluation and Treatment: Spine

This course will emphasize the implementation of the patient/client management model in the realm of musculoskeletal physical therapy of the spine. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in spring 1 courses; concurrent enrollment in PTS 729. Offered Summer.

PTS 729 Cr.1

Applied Musculoskeletal Evaluation and Treatment: Spine

This course will emphasize the psychomotor skills included in the patient/client management model and utilization of material presented in "Musculoskeletal Evaluation and Treatment: Spine" (PTS 728). Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in spring 1 courses; concurrent enrollment in PTS 728. Offered Summer.

PTS 730 Cr.3

Physical Therapy for Children

In this lecture-based course, students will gain and apply knowledge in screening, examination, evaluation and diagnosis, prognosis, plan of care, and interventions for children with disabilities. Students will learn how to modify examination and interventions to match a child's age and developmental level. Student knowledge from previous courses will be applied. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 2 courses; concurrent enrollment in PTS 731. Offered Spring.

PTS 731 Cr.1

Applied Physical Therapy for Children

In this lab-based course, students will gain psychomotor and affective skills in screening, examination, evaluation and diagnosis, prognosis, plan of care and interventions for children with disabilities. Students will learn how to modify examination and interventions to match a child's age and developmental level. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 2 courses; concurrent enrollment in PTS 730. Offered Spring.

PTS 733 Cr.3

Health Administration

Primary emphasis for the joint portion of this course is to provide entry-level health care professionals with clinical administration and patient management skills in the context of the current health care system and an ethical practice environment. Topics of study will include characteristics of the global and US health care systems, reimbursement and insurance models, legal considerations, compliance with healthcare and reimbursement regulations and practice management. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 2 courses. Offered Spring.

PTS 735 Cr.2

Adult Neurorehabilitative Physical Therapy I

The course will emphasize the integration of neuroanatomy, neurophysiology, motor control, motor learning, and the physical therapy management of adults with neuromuscular disorders. Students will assess and integrate recommendations and evidence for the principles and practices of neurorehabilitation physical therapy. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses; concurrent enrollment in PTS 736. Offered Fall.

PTS 736 Cr.1

Applied Adult Neurorehabilitative Physical Therapy I

The course will emphasize procedures to support physical therapy management of adults with neuromuscular disorders. Students will practice the selection and application of tests and measures, treatment techniques, equipment prescription, and outcome assessment and recommendations. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses; concurrent enrollment in PTS 735. Offered Fall.

PTS 737 Cr.2

Musculoskeletal Examination and Intervention: Upper Extremity

This course will emphasize the implementation of the patient/client management model in the realm of musculoskeletal physical therapy of the upper extremity. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 2 courses; concurrent enrollment in PTS 738. Offered Spring.

PTS 738 Cr.1

Applied Musculoskeletal Examination and Interventions: Upper Extremity

This course will emphasize the psychomotor skills included in the patient/client management model and utilization of material presented in "Musculoskeletal Examination and Intervention: Upper Extremity" (PTS 737). Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 2 courses; concurrent enrollment in PTS 737. Offered Spring.

PTS 739 Cr.1

Adult Neurorehabilitative Physical Therapy II

The course will emphasize the integration of neuroanatomy, neurophysiology, motor control, motor learning, differential diagnosis and the physical therapy management of adults presenting with symptoms of dizziness and/or imbalance (e.g. concussion, stroke, cerebellar disorders, vestibular disorders) and spinal cord injuries (SCI). Students will learn and practice targeted assessment (including the selection and application of tests and measures), examination, intervention, principles and practices as they relate to the rehabilitation of a person presenting with symptoms of dizziness and/or imbalance or SCI. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 2 courses; concurrent enrollment in PTS 740. Offered Spring.

PTS 740 Cr.1

Applied Adult Neurorehabilitative Physical Therapy II

The course will emphasize procedures to support physical therapy management of adults presenting with symptoms of dizziness and/or imbalance (e.g. concussion, stroke, cerebellar disorders, vestibular disorders) and spinal cord injuries (SCI). Students will practice the selection and application of tests and measures, treatment techniques, equipment prescription, and outcome assessment and recommendations. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in fall 2 courses; concurrent enrollment in PTS 739. Offered Spring.

PTS 741 Cr.2

Evidenced Based Practice in Physical Therapy

This course provides students with strategies for evaluating the evidence underlying physical therapy practice. Students will examine various levels of evidence ranging from systematic reviews to case studies in an effort to recognize opportunities to utilize evidence as a framework for determining best practice. Contemporary physical therapy research concepts will also be emphasized including selection, analysis, and incorporation of outcome measures into physical therapy practice, use of clinical prediction rules, and intention to treat analysis in prospective study designs. Finally, this course will provide students an opportunity to retrieve and assess information from the research literature that substantiates or challenges the use of physical therapy interventions for the treatment of movement disorders. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses. Offered Fall.

PTS 742 Cr.1

Research Practicum

This course provides practical experience carrying out a research project under the guidance of the principal investigator(s). Students may be asked to participate in some of the following activities: search and critique the literature concerning the research problem, collect data, process, analyze and/or manage data, assist with statistical analysis, interpret results. Repeatable for credit - maximum two. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses. Offered Fall, Spring.

PTS 751 Cr.2

Fieldwork: General Practice

The student will be assigned to a clinically based learning experience where they will practice basic skill acquisition in real time. Fieldwork placements will be with a general practitioner/clinical instructor (CI). Consistent with the services that may be provided in a general practice, students may be expected to provide supervised therapy for less complicated patients in any supervised setting including, but not limited to, acute care, extended care facility, home care, outpatient orthopedic, and pediatrics. Prerequisite: admission to DPT Professional Program; in good standing in program (academic and professional behaviors); successful progression through all preceding didactic coursework; completion of all clinical education preparatory material described in the course syllabus; successful completion of PTS 651. Pass/Fail grading. Offered Summer.

PTS 798 Cr.1-3

Independent Study

Independent study of a special topic or problem related to physical therapy examination, intervention, diagnosis, prognosis, outcome assessment or professional practice. Physical therapy elective. Open to students after discussion with instructor. Repeatable for credit – maximum six. Prerequisite: admission to DPT Professional Program. Consent of instructor. Offered Occasionally.

PTS 831 Cr.1

Clinical Decision Making

This course introduces learners to clinical reasoning as a systematic process to assist practitioners in inferring or drawing conclusions about patient care. Prerequisite: admission to DPT Professional Program; successful progression through all prior DPT curriculum. Offered Fall.

PTS 851 Cr.6

Clinical Education Experience I

This course is the first in a series of three required physical therapy clinical education experiences whereby the student is assigned to a clinical facility under the direction and supervision of a physical therapist clinical instructor. Clinical experiences will be representative of settings where physical therapy is routinely practiced. Examples of settings include, but are not limited to, acute care hospitals, rehabilitation centers, home-care, outpatient clinics, schools, skilled nursing facilities, wellness centers, etc. The collective outcome of all three 12-week clinical education experiences will encompass patient care that ensures students are competent with management of patients across the lifespan and continuum of care. The patient management model will be applied to individuals with musculoskeletal, neuromuscular, cardiovascular, pulmonary, and integumentary problems. Prerequisite: admission to the DPT Program; in good standing in program (academic and professional behaviors); successful progression through all preceding didactic coursework; completion of all clinical education preparatory material described in the course syllabus; successful completion of PTS 651 and PTS 751. Pass/Fail grading. Offered Summer.

PTS 852 Cr.6

Clinical Education Experience II

This course is the second in a series of three required physical therapy clinical education experiences whereby the student is assigned to a clinical facility under the direction and supervision of a physical therapist clinical instructor. Clinical experiences will be representative of settings where physical therapy is routinely practiced. Examples of settings include, but are not limited to, acute care hospitals, rehabilitation centers, home-care, outpatient clinics, schools, skilled nursing facilities, wellness centers, etc. The collective outcome of all three 12-week clinical education experiences will encompass patient care that ensures students are competent with management of patients across the lifespan and continuum of care. The patient management model will be applied to individuals with musculoskeletal, neuromuscular, cardiovascular, pulmonary, and integumentary problems. Prerequisite: admission to the DPT Program; in good standing in program (academic and professional behaviors); successful progression through all preceding didactic coursework; completion of all clinical education preparatory material described in the course syllabus; successful completion of PTS 651 and PTS 751. Pass/Fail grading. Offered Fall.

PTS 853 Cr.6

Clinical Education Experience III

This course is the third in a series of three required physical therapy clinical education experiences whereby the student is assigned to a clinical facility under the direction and supervision of a physical therapist clinical instructor. Clinical experiences will be representative of settings where physical therapy is routinely practiced. Examples of settings include, but are not limited to, acute care hospitals, rehabilitation centers, home-care, outpatient clinics, schools, skilled nursing facilities, wellness centers, etc. The collective outcome of all three 12-week clinical education experiences will encompass patient care that ensures students are competent with management of patients across the lifespan and continuum of care. The patient management model will be applied to individuals with musculoskeletal, neuromuscular, cardiovascular, pulmonary, and integumentary problems. Prerequisite: admission to the DPT Program; in good standing in program (academic and professional behaviors); successful progression through all preceding didactic coursework; completion of all clinical education preparatory material described in the course syllabus; successful completion of PTS 651 and PTS 751. Pass/Fail grading. Offered Spring.

PTS 854 Cr.1

Capstone Project

Hybrid course with online and campus-based classes focusing on development of a written manuscript (case report, systematic literature review, or research manuscript) with faculty mentoring and oversight. Scholarly writing consistent with journal submission guidelines is required. Prerequisite: admission to the DPT Professional Program; good academic standing; satisfactory completion of all didactic coursework. Consent of instructor. Pass/Fail grading. Offered Fall, Spring, Summer.

Physician Assistant Studies (PAS) - Graduate Courses

Courses

BIO/PAS/PTS 509 Cr.3

Human Gross Anatomy

A comprehensive consideration of human gross anatomy. Systems included are musculoskeletal, neurological, urogenital, gastrointestinal and cardiopulmonary. Function, development, and topographic correlations are emphasized as a means toward evaluating clinical applications. Biomechanical function, topographic and clinical applications are emphasized. Prerequisite: admission to the Biology CRNA Program, PAS Program, or DPT Professional Program; concurrent enrollment in BIO/PAS/PTS 510 under same department. (Cross-listed with BIO/PAS/PTS; may only earn credit in one department.) Offered Summer.

BIO/PAS/PTS 510 Cr.3

Applied Human Gross Anatomy

A comprehensive consideration of human anatomy including both neuro-musculoskeletal components and internal organ systems. Systems included are musculoskeletal, neurological, urogenital, gastrointestinal, and cardiopulmonary. The course provides an in-depth understanding of the gross anatomy of the human body through regional dissection. This understanding will then be demonstrated through the application of anatomy within clinical presentations. Prerequisite: admission to the Biology CRNA Program, PAS Program, or DPT Professional Program; concurrent enrollment in BIO/PAS/PTS 509 under same department. (Cross-listed with BIO/PAS/PTS; may only earn credit in one department.) Offered Summer.

PAS 624 Cr.2

Medical Biochemistry

A study of chemical processes in cells (i.e., enzymes, lipids, membranes, metabolism, nucleic acids, receptor-sites, etc.) with special emphasis on building a foundation for the study of methods for diagnosis and treatment of human diseases and disorders. Prerequisite: admission to the Physician Assistant Program. Offered Summer.

PAS 626 Cr.4

Physiology for the Medical Professional

An advanced study of the physiology of human organ systems focusing on topics that provide the basis for understanding disease and pharmacotherapeutic mechanisms. Prerequisite: admission to the Physician Assistant Program. May not earn credit for PAS 626 and BIO 718 or BIO 719. Offered Summer.

PAS 628 Cr.2

Clinical Infectious Disease

This course introduces the principles of infectious diseases and the characteristics of the important pathogens. The discussion will focus on the clinical aspects of each infectious disease building on previous knowledge of microbiology. Includes a survey of microorganisms that commonly infect humans including bacteria, fungi, viruses, and parasites. The immune system role in preventing and treating infectious diseases will also be discussed. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall.

PAS 630 Cr.4

Medical Pharmacology and Pharmacotherapeutics I

This course presents a broad survey of the general principles of pharmacology. Included are the essential principles of pharmacokinetics and pharmacodynamics; and the mechanism of action, physiologic effects, adverse effects and interactions, and clinical and therapeutic application of specific drugs and drug groups. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall.

PAS 631 Cr.1

Medical Pharmacology and Pharmacotherapeutics II

This course will continue to build on the knowledge of pharmacologic principles obtained in Medical Pharmacology and Pharmacotherapeutics I. It will focus on the mechanism of action, physiologic effects, adverse effects and interactions, and clinical and therapeutic application of specific drugs and drug groups. Prerequisite: PAS 630; admission to the Physician Assistant Program and approval of the program director. Offered Spring.

PAS 640 Cr.1

Introduction to the Physician Assistant Profession

This course provides an overview of the PA profession, its history, current role in health care and other issues of professional interest. Students also begin to develop patient interview and communication skills. Concepts of professionalism and professional ethics as a PA student and graduate physician assistant are introduced. Prerequisite: admission to the Physician Assistant Program. Offered Summer.

PAS 642 Cr.3

Medical History and Physical Exam

This course is designed to introduce the process of history taking, physical examination, and patient assessment. The course includes a review of anatomy and physiology relevant to physical examination skills, instruction and demonstration of proper examination and history taking techniques, with practical application of these skills in the clinical setting. The course is comprised of several components including: Medical History, Physical Examination, Clinical experience (including visits to local nursing homes and rural family practice mentorships). Prerequisite: concurrent enrollment in PAS 643; admission to the Physician Assistant Program and approval of the program director. Offered Fall.

PAS 643 Cr.1

Applied Medical History and Physical Exam

This course is designed to apply principles of history taking, physical examination, and patient assessment discussed in Medical History and Physical Exam in the laboratory setting. Prerequisite: concurrent enrollment in PAS 642; admission to the Physician Assistant Program and approval of the program director. Offered Fall.

PAS 647 Cr.4

Clinical Practice Skills

This course facilitates the transition from didactic learning to clinical practice by bringing together the knowledge and skills developed previously in the program to perform and document the comprehensive patient history and physical examination, as well as more focused patient encounters. Clinical critical thinking becomes an integral part of patient evaluation through the development of differential diagnoses, diagnostic strategies, and treatment plans. Students gain further experience in using the medical literature to answer focused clinical questions and expand their skills to include critical evaluation of the secondary medical literature and the application of clinical practice guidelines to individualized patient care. This course also covers the topics of geriatric patient evaluation and billing/coding, and provides students with experiences in oral patient presentation, interprofessional education, and bedside diagnostic ultrasound. Lect. 2, Lab 4. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Spring.

PAS 649 Cr.1

Health Care Administration, Law, and Ethics in Medicine

This course provides the PA student with an introduction to the current health care and reimbursement systems in America, their operation and impact on community health and medical practice. Legal and regulatory aspects of medical care as a physician assistant are explored. Issues of the ethical practice of medicine are also explored. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Winter.

PAS 651 Cr.1

Behavioral Medicine

This course includes presentation of behavioral and social concepts in medicine including personality development, normative responses to stress, psychosomatic manifestations of illness, sexuality, basic counseling skills, and emotional problems of daily living. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Spring.

PAS 652 Cr.2

Clinical Procedures

Developing a variety of clinical procedural skills such as starting IV lines, drawing blood, giving injections and Advanced Cardiac Life Support. Students learn various surgical protocols and procedures and other standard hospital procedures such as suturing and casting. Lect. 8; Lab 16. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Pass/Fail grading. Offered Spring.

PAS 654 Cr.2

Evidence Based Medicine

This course presents a systematic approach to the development of information literacy in clinical practice by providing a framework for self-directed inquiry and lifelong learning. Students learn to develop answerable clinical questions and then to use the best evidence by searching out relevant medical literature, interpreting the literature through a basic knowledge of study design and medical statistics, critically examining the literature, and applying findings to individualized patient care. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall.

PAS 680 Cr.1

Pathology

This course presents the general principles of pathology, including cell injury, inflammation, healing, neoplasia, genetic and developmental pathology and immunopathology, as a foundation for the study of medicine. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Summer.

PAS 681 Cr.1

Medical Diagnostics

This course is designed to introduce the PA student to the basic principles of diagnostic laboratory medicine and radiology commonly used in the clinical setting. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall.

PAS 682 Cr.3

Internal Medicine: Cardiology

This course is designed to teach content and integrate the basic principles of pathophysiology, clinical diagnosis and management of cardiovascular disease. This course will expand on the basic medical sciences of human anatomy, physiology, and medical biochemistry as it applies to clinical medicine. The course is designed to allow PA students to develop clinical reasoning skills and an advanced understanding of disease processes and treatment specific to the cardiovascular system. The course will also provide instruction in the interpretation of the 12 lead EKG's. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall.

PAS 683 Cr.3

Internal Medicine: Gastroenterology and Pulmonology

This course is designed to teach content and integrate the basic principles of pathophysiology, clinical diagnosis, management of pulmonary, gastrointestinal, hepatic, biliary, and pancreatic diseases. This course will expand on the basic medical sciences of human anatomy, physiology, and medical biochemistry as it applies to clinical medicine. The course is designed to allow PA students to develop clinical reasoning skills and an advanced understanding of disease processes and treatment specific to the pulmonary and gastroenterological systems. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall.

PAS 688 Cr.1

Neuroanatomy

This course provides the student with an understanding of the structure, organization and function of the central, peripheral and autonomic nervous systems. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall.

PAS 701 Cr.1

Internal Medicine Subspecialty: Nephrology

This course is designed to teach content and integrate the basic principles of pathophysiology, clinical diagnosis and management of a spectrum of disorders in nephrology. This course will expand on the basic medical sciences of human anatomy, physiology, and medical biochemistry as they apply to clinical medicine. Issues related to nutrition, medical imaging and diagnostic testing in nephrology are also presented. The course is designed to allow PA students to develop clinical reasoning skills and an advanced understanding of renal disease processes and their treatment. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Spring.

PAS 703 Cr.1

Internal Medicine Subspecialty: Endocrinology

This course is designed to teach content and integrate the basic principles of pathophysiology, clinical diagnosis and management of a spectrum of disorders in endocrinology. This course will expand on the basic medical sciences of human anatomy, physiology, and medical biochemistry as they apply to clinical medicine. Issues related to nutrition, medical imaging and diagnostic testing in endocrinology are also presented. The course is designed to allow PA students to develop clinical reasoning skills and an advanced understanding of endocrine disease processes and their treatment. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Spring.

PAS 707 Cr.2

Internal Medicine Subspecialties II: Hematology and Rheumatology

This course integrates presentation of the pathophysiology, clinical diagnosis and management of a spectrum of disorders in hematology and rheumatology. Issues related to medical imaging in these disciplines are also presented. The course is designed to allow PA students to develop critical clinical reasoning skills, and an advanced understanding of hematologic and rheumatologic disease processes and their treatment. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Spring.

PAS 709 Cr.1

Emergency Medicine

This course integrates presentation of the pathophysiology, clinical diagnosis and management of a spectrum of disorders commonly seen in the emergency room setting. The course is designed to allow PA students to develop critical clinical reasoning skills, and an advanced understanding of emergency room setting disease processes and their treatment. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Spring.

PAS 711 Cr.2

Clinical Neuroscience

This course builds on the knowledge of anatomical principles obtained in Neuroanatomy. It integrates presentation of the pathophysiology, clinical diagnosis and management of a spectrum of disorders in neurology and psychiatry. Issues related to medical imaging in these medical disciplines are also presented. The course is designed to allow PA students to develop critical clinical reasoning skills and an advanced understanding of disease processes involving the nervous system. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Spring.

PAS 720 Cr.4

Family Medicine Rotation I

This 4-week rotation provides students with clinical experience in broad, primary care setting during which students refine their skills in performing the history and physical exam, ordering and interpreting diagnostic tests, and developing treatment plans for the diversity of patients in a typical family medicine practice. Where possible, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examination at the end of the rotation. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall, Winter, Spring, Summer.

PAS 722 Cr.4

Internal Medicine Rotation I

This 4-week rotation provides students with clinical experience in an internal medicine setting during which students refine their skills in performing the history and physical exam, ordering and interpreting diagnostic tests, and developing treatment plans for the diversity of patients in a typical internal medicine practice. Where possible, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examination at the end of the rotation. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall, Winter, Spring, Summer.

PAS 724 Cr.4

General Surgery Rotation

This 4-week rotation provides students with clinical experience in a general surgery setting during which students refine their skills in performing the history and physical exam, ordering and interpreting diagnostic tests, assisting with surgery and developing treatment plans for the diversity of patients in a typical general surgery practice. Where possible, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examination at the end of the rotation. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall, Winter, Spring, Summer.

PAS 726 Cr.4

Women's Health

This 4-week rotation provides students with clinical experience in an obstetrics and gynecology setting during which students refine their skills in performing the history and physical exam, ordering and interpreting diagnostic tests, assisting with deliveries and gynecologic surgery, and developing treatment plans for the diversity of patients in a typical ob/gyn practice. Where possible, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examination at the end of the rotation. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall, Winter, Spring, Summer.

PAS 728 Cr.4

Pediatric Rotation

This 4-week rotation provides students with clinical experience in a pediatric setting during which students refine their skills in performing the history and physical exam, ordering and interpreting diagnostic tests, and developing treatment plans for the diversity of patients in a typical pediatric practice. Where possible, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examination at the end of the rotation. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall, Winter, Spring, Summer.

PAS 730 Cr.4

Behavioral Health

This 4-week rotation provides students with clinical experience in a psychiatry setting during which students refine their skills in performing the history and physical exam, ordering and interpreting diagnostic tests, and developing treatment plans for the diversity of patients in a typical psychiatry practice. Where possible, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examination at the end of the rotation. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall, Winter, Spring, Summer.

PAS 732 Cr.4

Emergency Medicine Rotation

This 4-week rotation provides students with clinical experience in an emergency medicine setting during which students refine their skills in performing the history and physical exam, ordering and interpreting diagnostic tests, and developing treatment plans for the diversity of patients in a typical emergency medicine practice. Where possible, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examinations at the end of the rotation. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall, Winter, Spring, Summer.

PAS 755 Cr.1-8

Independent Study in Physician Assistant Studies

Independent, in-depth study of a special topic or problem related to the PA profession, health sciences, and the practice of medicine. Under the direction and supervision of PA program faculty, the student may select content from core and/or specialty areas to supplement didactic and clinical curriculum. Prerequisite: admission to the Physician Assistant Program. Pass/Fail grading. Offered Occasionally.

PAS 756 Cr.4

Supplemental Rotation I

The student selects a clinical area for the supplemental clinical rotation(s) with the approval of program faculty. The clinical rotation is to be completed within the student's assigned health system. Students may select clinical experiences from specialty areas not included in the required rotations, or in one of the required clinical areas. During this rotation, students will refine their skills in performing the history and physical examination, ordering and interpreting diagnostic tests, and developing plans for the diversity of patients in the chosen medical or surgical specialty. Where possible, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examination at the end of the rotation. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall, Winter, Spring, Summer.

PAS 757 Cr.4

Supplemental Rotation II

The student selects a clinical area for the supplemental clinical rotation(s) with the approval of program faculty. The clinical rotation is to be completed within the student's assigned health system. Students may select clinical experiences from specialty areas not included in the required rotations, or in one of the required clinical areas. During this rotation, students will refine their skills in performing the history and physical examination, ordering and interpreting diagnostic tests, and developing plans for the diversity of patients in the chosen medical or surgical specialty. Where possible, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examination at the end of the rotation. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall, Winter, Spring, Summer.

PAS 758 Cr.4

Supplemental Rotation III

The student selects a clinical area for the supplemental clinical rotation with the approval of program faculty. The clinical rotation may be completed within or outside of the student's assigned health system. Students may select clinical experiences from specialty areas not included in the required rotations, or in one of the required clinical areas. With the consultation and approval of program faculty, the student develops an individualized learning contract that includes objectives for the rotation, and a method to demonstrate achievement of these objectives at the conclusion of the rotation. Where possible and appropriate, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Pass/Fail grading. Offered Fall, Winter, Spring, Summer.

PAS 759 Cr.4

Supplemental Rotation IV

The student selects a clinical area for the supplemental clinical rotation with the approval of program faculty. The clinical rotation may be completed within or outside of the student's assigned health system. Students may select clinical experiences from specialty areas not included in the required rotations, or in one of the required clinical areas. With the consultation and approval of program faculty, the student develops an individualized learning contract that includes objectives for the rotation, and a method to demonstrate achievement of these objectives at the conclusion of the rotation. When possible and appropriate, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Pass/Fail grading. Offered Fall, Winter, Spring, Summer.

PAS 760 Cr.1

Obstetrics - Maternal/Fetal Care

This course is designed to teach content and integrate the basic principles of embryology, anatomy, pathophysiology, clinical diagnosis and management of the obstetric patient and developing fetus. The course is designed to allow PA students to develop clinical reasoning skills, formulation of treatment plans, as well as an advanced understanding of maternal and fetal health. Prerequisite: admission to the Physician Assistant Program. Offered Spring.

PAS 762 Cr.1

Pediatric and Adolescent Medicine

This course is designed to teach content and integrate the basic principles of anatomy, pathophysiology, clinical diagnosis and management of a spectrum of disorders in Pediatrics & Adolescent Medicine along with wellness care and disease prevention. The course is designed to allow PA students to develop clinical reasoning skills, formulation of treatment plans, as well as an advanced understanding of pediatric and adolescent health. Prerequisite: admission to the Physician Assistant Program. Offered Spring.

PAS 763 Cr.1

Genitourinary Medicine

This course is designed to teach content and integrate the basic principles of anatomy, pathophysiology, clinical diagnosis, management, and prevention of a spectrum of diseases in gynecology and urology. The course is designed to allow PA students to develop clinical reasoning skills, formulation of treatment plans, as well as an advanced understanding of gynecologic and urologic health. Prerequisite: concurrent enrollment in PAS 764; admission to the Physician Assistant Program. Offered Winter.

PAS 764 Cr.1

Applied Genitourinary Medicine

Learning and gaining experience with the female breast and gynecologic exam, as well as the male genitourinary exam, will be addressed with lecture, discussion, models, and professional patients in the laboratory setting. Prerequisite: concurrent enrollment in PAS 763; admission to the Physician Assistant Program. PAS 764 Prereq Offered Winter.

PAS 770 Cr.1

Principles of Surgical Medicine I: General Surgery and Anesthesia

This course integrates presentation of the pathophysiology, clinical diagnosis and management of a spectrum of disorders in anesthesia and general surgery. A suture skills laboratory is also incorporated into the course. The course is designed to allow PA students to develop the critical reasoning skills and an advanced understanding of surgical disease processes and their treatment. Prerequisite: admission to the Physician Assistant Program. Offered Spring.

PAS 771 Cr.1

Principles of Surgical Medicine II: Orthopedics

This course integrates presentation of the pathophysiology, clinical diagnosis and management of a spectrum of disorders in orthopedic surgery. Issues related to medical imaging and diagnostics in this medical discipline are also presented. The course is designed to allow PA students to develop critical reasoning skills and an advanced understanding of orthopedic disease processes and their treatment. Prerequisite: admission to the Physician Assistant Program. Offered Spring.

PAS 772 Cr.1

Principles of Surgical Medicine III: Surgical Subspecialties of Otorhinolaryngology and Ophthalmology

This course integrates presentation of the pathophysiology, clinical diagnosis and management of a spectrum of disorders in the surgical subspecialties of otorhinolaryngology and ophthalmology. Issues related to medical imaging and diagnostics in these medical disciplines are also presented. The course is designed to allow PA students to develop critical reasoning skills and an advanced understanding of otorhinolaryngologic and ophthalmologic disease processes and their treatment. Prerequisite: admission to the Physician Assistant Program. Offered Spring.

PAS 773 Cr.1

Dermatology

This course integrates presentation of the pathophysiology, clinical diagnosis and management of a spectrum of disorders in dermatology. The course is designed to allow PA students to develop critical reasoning skills and an advanced understanding of dermatologic disease processes and their treatment. Prerequisite: admission to the Physician Assistant Program. Offered Spring.

PAS 790 Cr.2

Capstone Seminar 1

The Capstone Seminar 3-course series occurs during the clinical year and aims to develop skills important to the professional physician assistant practice. This seminar series addresses a broad range of current and trending topics pertinent to health care delivery. Topics include, but are not limited to: humanistic care, inter-professional collaboration, patient communication and health literacy, diverse populations, public health, difficult patient encounters, patient safety and quality of care, resume preparation and job seeking skills, systematic review of the literature, interpretation of the medical literature to answer clinical questions, appreciation of practice regulations, clinical skill refinement and preparedness to practice. Completion of the Capstone Seminar series supports our program's mission of educating highly competent and compassionate PAs who are grounded in professional ethics, cultural sensitivity, and the use of evidence based medicine. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Summer.

PAS 792 Cr.2

Capstone Seminar 2

The Capstone Seminar 3-course series occurs during the clinical year and aims to develop skills important to the professional physician assistant practice. This seminar series addresses a broad range of current and trending topics pertinent to health care delivery. Topics include, but are not limited to: humanistic care, inter-professional collaboration, patient communication and health literacy, diverse populations, public health, difficult patient encounters, patient safety and quality of care, resume preparation and job seeking skills, systematic review of the literature, interpretation of the medical literature to answer clinical questions, appreciation of practice regulations, clinical skill refinement and preparedness to practice. Completion of the Capstone Seminar series supports our program's mission of educating highly competent and compassionate PAs who are grounded in professional ethics, cultural sensitivity, and the use of evidence based medicine. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Fall.

PAS 794 Cr.2

Capstone Seminar 3

The Capstone Seminar 3-course series occurs during the clinical year and aims to develop skills important to the professional physician assistant practice. This seminar series addresses a broad range of current and trending topics pertinent to health care delivery. Topics include, but are not limited to: humanistic care, inter-professional collaboration, patient communication and health literacy, diverse populations, public health, difficult patient encounters, patient safety and quality of care, resume preparation and job seeking skills, systematic review of the literature, interpretation of the medical literature to answer clinical questions, appreciation of practice regulations, clinical skill refinement and preparedness to practice. Completion of the Capstone Seminar series supports our program's mission of educating highly competent and compassionate PAs who are grounded in professional ethics, cultural sensitivity, and the use of evidence based medicine. Prerequisite: admission to the Physician Assistant Program and approval of the program director. Offered Spring.

Psychology (PSY) - Graduate Courses

Courses

PSY 710 Cr.2-3

Educational Psychology: Human Development

This course explores human development with an emphasis on issues that are relevant to establishing effective conditions for successful learning in school contexts. Major topics include developmental theories and issues, and cognitive, language and social-emotional development. In addition, individual differences, multiple influences on developmental processes, multicultural and gender issues and the role of early experiences are examined. Repeatable for credit - maximum three. Prerequisite: admission to a program leading to certification in a school related profession, and an undergraduate course in developmental psychology (e.g., lifespan, child or adolescent). Offered Fall.

PSY 717 Cr.3

Behavior Disorders in Children

Psychological aspects of behavioral disorders in children. Includes the study of etiology, symptoms and treatment of behavior disorders in children. Consent of instructor. Offered Summer.

PSY 725 Cr.3

Research and Program Evaluation in Schools

This course is designed to increase competencies in understanding and applying educational research and provide skills to successfully participate in school wide evaluation and improvement efforts. Prerequisite: STAT 145 or equivalent. Offered Summer.

PSY 756 Cr.3

Early Childhood Assessment

This course will provide an in-depth review of best practices of formal and informal assessment techniques in early childhood. Such techniques will be discussed in context to the four major functions of assessment: screening, diagnosis/eligibility, program planning, and program evaluation. The course will focus on procedural considerations in assessing cognition, motor skills, communication, play, socialization, behavior, and adaptive skills in early childhood. Issues of test development, standardization, reliability, validity, and report writing will also be explored. The challenges of assessing young children and meeting the ongoing needs of the child and family will be addressed. Prerequisite: Graduate status. Consent of instructor. Offered Fall.

PSY 759 Cr.3

Assessment of Personality and Emotional/Behavioral Disorders

Models of personality assessment. Reliability, validity and applications of personality, cognitive and behavioral measures. Planning, collecting and integrating data. Outlining and writing reports. Emphasis on assessing behavioral and emotional problems in children and youth. Prerequisite: SPY 757 and SPY 775. Offered Spring.

PSY 770 Cr.2-3

Educational Psychology: Learning and Instruction

Consideration of psychological principles, concepts, processes, and interpretations of human learning and cognition and related empirical evidence. Emphasis is given to those most relevant to establishing effective conditions for instruction and learning in schools. Prerequisite: admission to a program leading to certification in a school-related occupation. Offered Occasionally.

PSY 795 Cr.1-3

Directed Study in Psychology

Directed readings or presentation of psychological material not available in formal departmental courses. Repeatable for credit - maximum four. Offered Occasionally.

Public Health (PH) - Graduate Courses

Courses

PH 700 Cr.4

Public Health Foundations

This foundational course involves an introduction to public health to include key concepts (e.g., prevention), core functions, essential services, values, historical trends, philosophies, credentialing, ethical principles, evidence-based practices, and health equity. This course also addresses the impact of the environment on public health, components of the public health system, and future trends in public health. Offered Fall, Spring.

PH 701 Cr.3

Public Health Issues

This course involves an introduction to key determinants of the public's health (e.g., biological, genetic, behavioral, psychological, social, political, economic) as well as the impact of globalization on public health. Offered Fall, Spring.

PH 707 Cr.3

Environmental Health

Examination of how environmental mechanisms influence human health and how humans impact environmental conditions. A critical analysis of current environmental problems and evidence linking these problems to disease causation and health enhancement. Solutions to environmental health problems will also be critically analyzed. Offered Fall, Summer.

PH 710 Cr.4

Quantitative Methods

The design, analysis, and interpretation of quantitative data relative to health education, health promotion, public health, medicine, and epidemiology are covered. Attention is given to assisting students in being critical consumers of the research literature as well as designing their own studies. Some of the most frequently used statistical techniques to analyze quantitative data in community health education will be explored and practiced. SPSS will be the software used to assist in learning and understanding the appropriate statistical tools to understand what the data tells us. Offered Fall, Spring.

PH 711 Cr.4

Qualitative Methods

This course provides an introduction to the methodology as well as methods of qualitative research and how they play a role in describing and assessing a population's health. Students will have opportunities to collect, analyze, and interpret qualitative data as well as explain how their findings may have implications for public health research, policy, or practice. Students will also be introduced to Qualitative Data Analysis (QDA), software, specifically ATLAS.ti. Offered Fall, Spring.

PH 717 Cr.3

Emerging Public Health Issues

An in-depth policy and practice review of key emerging issues in public health and their societal impacts at the local, national, and international levels. Issues will be selected from the eight health challenge content areas advanced by the Institute of Medicine (2003) and additional sources. Implications for health education and health promotion will be addressed. Prerequisite: HED 701 and HED 703. Offered Spring.

PH 720 Cr.3

Program Assessment, Planning, and Evaluation in Health Promotion

This course is designed to provide the learner with program assessment, planning, communication, and evaluation skills. Emphasis is placed on community organizing principles, intervention planning, community assessment, group communication dynamics, evaluation design, and grant writing skills. Opportunities to apply these skills to a variety of community health settings are provided. Offered Fall.

PH 725 Cr.3

Communication Methods for Public Health

This course is designed to provide students with a critical understanding of the methods for effective communication in public health. Students will learn to select appropriate communication strategies for various priority populations and sectors. Additionally, students will gain an understanding of the key concepts of health literacy and the crucial role cultural competence plays in communication. Students will have opportunities to create health literate, culturally competent, and audience-appropriate written and oral communications. Offered Fall, Spring.

PH 755 Cr.3

Epidemiology and Public Health Issues

Examination of epidemiologic concepts in relation to specific public health issues. Disease investigation techniques, casual factors, case histories, and related biostatistics are examined and educational implications are discussed. Prerequisite: PH 340 or CHE 340 or equivalent professional experience. Offered Fall, Spring, Summer.

PH 760 Cr.3

Public Health Advocacy and Policy

This course focuses on the process of engaging communities in health education and behavior change programs of various kinds. Several organizing paradigms for fostering healthy communities are examined, and their practical and ethical implications are considered. Skill development for community assessment, constituency-building, and leadership of participatory planning efforts is emphasized. Students are paired with health and human services, health policy and social justice agencies and coalitions to gain an in-depth knowledge of agenda setting, legislative research, and legislative advocacy in relation to specific legislation being proposed in the Wisconsin state legislature. Course will tie policy theory to real-world practice. Offered Fall, Spring.

PH 770 Cr.3

Program Planning

This course will require students to assess community needs and resources as well as plan health programs. Following models commonly used in public health, students will utilize primary as well as secondary data in performing a comprehensive assessment of a population of interest. Reliable and valid resources that explain the health status of a population from the perspective of theories and ethically conducted research will be used when prioritizing needs and planning interventions. Students will learn about the necessity of early alignment between assessment and health education program goals and objectives. Professional competencies related to evaluating capacity and promoting community involvement will be emphasized as essential to planning best practices solutions to community health needs. Offered Fall, Spring.

PH 771 Cr.3

Program Implementation and Evaluation

Students will implement, administer, and evaluate a public health program. Interventions will be based on professional best practices and social and behavioral theories and models. Data will be collected that allow students to evaluate goals, objectives, and activities. Students will be required to generate a report at the end of the semester that can be used to inform decision makers on the success of the program and can be added to the professional evidence base. Offered Fall, Spring.

PH 775 Cr.3

Grant Development for Public Health

The grantseeking enterprise is studied and applied. Community and public health grantseeking content, practices, and concepts are presented for application in most disciplines and areas of interest. Content includes locating and communicating with funding agencies, writing and reviewing grant proposals, analyzing requests for proposals, using technology in grantseeking, and implementing and evaluating grant funded projects. Project planning and administrative competencies are incorporated. Budget planning and grant administration is identified and applied. Offered Fall, Spring.

PH 780 Cr.2

Public Health Applied Practice Experience (APE)

The Applied Practice Experience (APE) allows each student to demonstrate attainment of at least five competencies, of which at least three must be foundational competencies. The applied experiences must be structured to ensure all students complete experiences addressing at least five competencies, as specified above. The applied experiences may also address additional foundational or concentration-specific competencies, if appropriate. Applied practice experiences may involve governmental, non-governmental, non-profit, industrial and for-profit settings, or appropriate university-affiliated settings. To be appropriate for applied practice experience activities, university-affiliated settings must be primarily focused on community engagement, typically with external partners. Repeatable for credit - maximum four. Prerequisite: successful completion of a minimum of 21 graduate credit hours in the Master of Public Health program to include PH 700, PH 701, PH 710, PH 711, PH 725, and PH 790. Consent of department. Offered Fall, Spring, Summer.

PH 790 Cr.3

Public Health Administration and Organization

Principles of effective administration as applied to public health practice, leadership, personnel, management, negotiation, and mediation skills will be emphasized with a special focus on organizational concepts related to public health and human service agencies. Offered Fall, Spring.

PH 792 Cr.2

Public Health Integrative Learning Experience (ILE)

The Integrative Learning Experience (ILE) is designed as a culminating experience which can take many forms, depending on the interests of the candidate. Through a high-quality written product, the MPH-CHE candidate demonstrates the ability to synthesize foundational and concentration competencies. The MPH-CHE student will complete two credits of the ILE in the fall of the student's final academic year and two credits of the ILE in the spring semester (final semester prior to graduation). Repeatable for credit - maximum four. Consent of department. Offered Fall, Spring.

Reading (RDG) - Graduate Courses

Courses

RDG 600 Cr.3

Research Methods in Literacy

Students learn to design an action research study related to literacy and to analyze and interpret both qualitative and quantitative data collected. Attention is given to assisting students in being critical consumers of the research literature as well as designing their own studies. Prerequisite: taken concurrently with RDG 799; admission to a graduate Reading Program; completion of reading teacher (1316) coursework. Offered Fall, Spring, Summer.

RDG 601 Cr.3

Literacy and Language Development for Diverse Learners

This course surveys theories of language acquisition and development in first and second languages and the role of language as a foundation for diverse learners. Students will examine theoretical perspectives, key concepts of language development and instruction, and major issues pertinent to teaching diverse learners. Emphasis will be on language knowledge and literacy knowledge in second language literacy development and effective instruction for English language learners. Prerequisite: admission to a graduate Reading Program. Offered Fall, Spring, Summer.

RDG 702 Cr.3

Disciplinary Literacy

The purpose of this course is to explore reading, writing, speaking, and listening within discipline-specific contexts. Focuses are on examining the characteristics of content area texts and learning strategies for interacting with the types of texts encountered throughout a range of academic disciplines. Prerequisite: admission to a graduate Reading Program. Offered Fall, Spring, Summer.

RDG 703 Cr.3

Literacy Assessment and Instruction

This course introduces students to key theories in literacy assessment and instruction. Students will learn how to select assessment tools appropriate for a variety of situations, administer assessments accurately, interpret results, and design instruction based on assessment results. Instruction and practice will also be provided in designing effective intervention plans for students needing additional support in reading and writing. Prerequisite: admission to a graduate Reading Program. Offered Fall, Spring, Summer.

RDG 704 Cr.3

Emergent Literacy

This course focuses on the developmental process of literacy acquisition from pre-kindergarten through grade three with implications through grade 12. Students will gain an understanding and competency in the fundamentals of the components of emergent literacy, including: phonemic awareness, phonics, alphabetic principle, vocabulary, comprehension and fluency development. Complexities of early reading difficulties will also be explored. Emphasis will be given to learning to teach through the components of a balanced literacy approach with attention given to designing and managing learning environments, appropriate book selection and language development. This includes selecting, administering, and interpreting appropriate assessments, incorporating instructional strategies for diverse learners, and differentiating instruction to support inclusive practices. Prerequisite: admission to a graduate Reading Program. Offered Fall, Spring, Summer.

RDG 711 Cr.3

Advanced Research Methods in Literacy

During this course, students will complete the action research they proposed in RDG 600. Key focus areas are on analyzing the data, summarizing the results, and discussing the implications of the action research study. Students will complete and submit the formal action research paper during this course. Prerequisite: RDG 600; taken concurrently with RDG 799; admission to the graduate Reading Program; completion of Reading Teacher (1316) coursework. Offered Fall, Spring, Summer.

RDG 712 Cr.3

Critical Issues in Reading Difficulties

The course is designed to develop competence in determining causes and degrees of reading disabilities, recommending specific corrective or remedial instruction to meet specific needs for students. This course will help reading professionals to investigate important factors of achievement gap in literacy learning and incorporate effective research-based modifications for diverse learners. The course content also focuses on practitioner inquiry, reflective practice, and the evolving concept of literacy shaped by the following trends: culturally responsive literacy curriculum, critical literacy, and new literacies. Prerequisite: RDG 601; taken concurrently with RDG 714; admission to a graduate Reading Program. Offered Fall, Spring, Summer.

RDG 714 Cr.3

Reading Teacher Practicum

The reading teacher practicum provides reading teacher candidates with the opportunity to implement literacy skills and strategies with two focus students with areas of struggle in literacy: one student in grades K-5 and one student in grades 6-12. Candidates will assess each student, diagnose instructional needs, develop and implement appropriate instructional strategies, and consistently monitor progress made. Candidates will compile a case study narrative reflecting on the growth of each student and suggesting next steps. This practicum experience is a minimum of 50 hours and is supervised by both a school-based supervisor and a university supervisor. Prerequisite: RDG 601, RDG 702, RDG 703, RDG 704; admission to a graduate Reading Program. Offered Fall, Spring, Summer.

RDG 715 Cr.3

Children's and Adolescent Literature

This course exposes students to a variety of literature genres published for children and young adults. There is a focus on using literature in culturally responsive ways to reflect students' own experiences and to provide insight into others' cultural experiences. Additional focus is provided on strategies to use literature to engage and support students in their reading development. Prerequisite: admission to a graduate Reading Program. Offered Fall, Spring, Summer.

RDG 716 Cr.1-3

Special Topics Seminar in Reading Education

Special topics seminar in literacy is designed for the student to explore and study special topics of interest and their application in a reading program. The particular topic selected is to be determined by current need and interest. Repeatable for credit - maximum six. Prerequisite: admission to a graduate Reading Program. Offered Spring, Summer.

RDG 718 Cr.3

Guiding and Directing a Schoolwide Reading/Literacy Program

This course prepares licensed reading teachers to take on the administrative roles associated with a reading specialist licensure. Many different potential roles and responsibilities of reading specialists will be covered. Special focus will be on evaluating a district-wide literacy program from the viewpoint of curriculum, instruction, assessment, and equity. Different models of developing staff in continuous improvement will be discussed. Prerequisite: taken concurrently with RDG 780; admission to a graduate Reading Program; completion of Reading Teacher (1316) coursework; master's degree. Offered Fall, Spring, Summer.

RDG 770 Cr.1-3

Symposium in Reading Education

Studies in reading education of interest to specific groups. Varying topics will be offered at intervals with a specific title assigned to each. Repeatable for credit - maximum six. Offered Occasionally.

RDG 780 Cr.3

Reading Specialist Practicum

This course is an intensive and diverse professional experience of at least 40 hours providing collaborative leadership to the adults in a school system under supervision of an experienced reading specialist, or other person responsible for the school reading program, and a university supervisor. Experiences must span elementary and secondary schools and must show evidence of leadership in each of the following standards: curriculum and instruction, assessment and evaluation, diversity and equity, learners and the literacy environment, and professional learning and leadership. Prerequisite: taken concurrently with RDG 718; admission to a graduate Reading Program; completion of Reading Teacher (1316) coursework; master's degree. Offered Fall, Spring, Summer.

CI/RDG 781 Cr.3

Educational Supervision

Exploration of the nature and scope of responsibilities of areas in educational supervision. Special emphasis will be given to the improvement of instruction and curriculum development through the study of interpersonal relations. (Cross-listed with EDM/RDG; may only earn credit in one department.) Offered Summer.

CI/EDM/EFN/RDG 796 Cr.1-2

Independent Study

Directed readings or presentation of material not available in formal departmental courses under the supervision of an assigned staff member. Repeatable for credit - maximum four. (Cross-listed with CI/EDM/EFN/RDG; may only earn four credits total in CI, EFN, EDM, and RDG.) Offered Fall, Winter, Spring, Summer.

RDG 799 Cr.3

Action Research in Literacy

Upon successful completion of required courses for the program, students will critically examine issue(s), problems, and trend(s) related to literacy education and write their action research in literacy paper. They will complete an action research paper under the supervision of a faculty mentor. Repeatable for credit - maximum six. Prerequisite: at least 18 credits or equivalent in the graduate Reading Program. Pass/Fail grading. Offered Fall, Spring, Summer.

Recreation Management (REC) - Graduate Courses

Courses

REC 400/500 Cr.3

Planning for Park and Recreation Facilities

Designed to equip the student with the basic knowledge necessary to understand and implement the planning process in the development of park and recreation facilities. This course is also designed to familiarize the student with federal, state and local statutes, and other related documents (U.S Census, Wisconsin Administrative Codes, county and municipal ordinances). This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall, Spring.

REC 402/502 Cr.3

Risk Management in Leisure Service Organizations

This course will identify the primary components of risk management and detail legal aspects of tort liability, waivers, and indemnification agreements in leisure service organizations. The course will equip students with basic knowledge and skills necessary to appropriately manage legal liability and risk exposure associated within various professional leisure and recreation contexts. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall, Spring.

REC 404/504 Cr.3

Budgeting in the Recreation Enterprise

Emphasis is placed on budget development, implementation and management decision-making within the recreation and park enterprise. This course introduces students to various contextual operational budgets within governmental and non-profit enterprises. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall.

REC 405/505 Cr.3

Sustainable Tourism Development

This course will examine sustainable theories, policies, and practices in tourism. Students will learn about tourism planning and development from a sustainable tourism perspective. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Spring.

REC 415/515 Cr.3

Camp Administration

This course provides an overview of the history of the camping movement and its evolution over time. In addition, the course will provide foundational knowledge necessary to successfully operate a camp facility including administration, day-to-day operations, staffing, camp counseling, and program activities. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Spring - Even Numbered Years.

REC 420/520 Cr.3

Revenue Management in Leisure Enterprises

This course covers prices and pricing from both managerial and behavioral perspectives in recreation, parks, tourism and event settings. While the managerial aspects of pricing include pricing policy/strategy and revenue management (defined as selling perishable service products to the right customer at the right time for the right price), the behavioral aspects include psychology of pricing, price fairness, price perceptions, and willingness-to-pay for non-market goods. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall, Winter, Spring, Summer.

REC 445/545 Cr.3

Meetings, Conventions, and Event Planning

This course will advance students' understanding of the event management profession. The course is intended to expose students to planning and management aspects in the areas of meetings, conventions, and other special events, while gaining an understanding of how special events impact tourism. Students will learn the professional skills necessary to plan, manage, and evaluate the success of a meeting, convention, or large-scale special event. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall.

REC 481/581 Cr.1-3

Outdoor Pursuits

This course provides skill development and leadership techniques in outdoor recreation activities commonly associated with wilderness and roadless areas. Backcountry ethics and safety will be stressed. A field trip will be required. Examples: backpacking, canoeing, bicycling, rock climbing, fishing, camping, and/or cross-country skiing. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit – maximum six. Offered Occasionally.

REC 491/591 Cr.1-3

Workshops in Recreation and Parks

Group study of varying recreation and parks topics. University professors as well as visiting lecturers will be invited to address the students and conduct specialized phases of the workshops. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit under different topics. No student may earn more than six credits in REC 491/591 and RTH 491/591. Offered Occasionally.

REC 700 Cr.1-9

Internship in Guided Learning

Application of the methods and techniques of recreation leadership and administration through a supervised internship experience. Repeatable for credit - maximum nine. Prerequisite: completion of all required REC/RTH courses; approval of recreation management internship coordinator. Offered Fall, Spring, Summer.

REC/RTH 701 Cr.3

Philosophical Foundations of Leisure, Play and Recreation

In-depth study of past and current theories of leisure, play and recreation; concepts of work and time; the influence of technology and societal changes and the role of recreation in modern day society. (Cross-listed with REC/RTH; may only earn credit in one department.) Offered Fall.

REC 704 Cr.3

Current Issues and Problems

An examination of current factors that are affecting the field of recreation, parks, and leisure with a major emphasis on special problem areas. Subject matter may vary in areas of interest or experience of the student and the instructor. Offered Occasionally.

REC 710 Cr.3

Entrepreneurship in Recreation

This course focuses on management processes that the entrepreneur in recreation uses to create new recreation or entertainment services or to reenergize faltering services. Because entrepreneurs create services that are unusual, innovative, or unique, emphasis is given to planning and marketing processes. The course addresses market feasibility studies, business plan development, pricing, advertising, and public relations. Offered Occasionally.

REC 711 Cr.3

Management of Leisure Services Organizations

Designed to equip the student with the knowledge and skills necessary to manage a public, not-for-profit, or commercial leisure service organization or a division of a leisure service organization. Emphasis will be placed on management functions (planning, organizing, staffing, leading, and controlling) as they relate to the leisure service organization. Offered Occasionally.

REC/RTH 720 Cr.3

Research Methods for Recreation, Parks, and Leisure

The course introduces graduate students to research methods used in leisure research and recreation programs. Students learn to develop a research question, collect and analyze research literature, and conduct research using both quantitative and qualitative methods. The course is designed specifically to help students use methods relevant to the recreation field to take the initial steps for a graduate thesis or project. (Cross-listed with REC/RTH; may only earn credit in one department.) Offered Spring.

REC 731 Cr.3

Data Evaluation and Management in Parks and Recreation

This course covers best practices and emerging models for designing, collecting, and analyzing data used in managing parks, recreation, and leisure service delivery organizations and includes management strategies for applying and communicating evaluation results. Historical and current evaluative management tools will also be examined for their effectiveness in multiple contexts, e.g. VIM, SERVQUAL. Seven week course. Prerequisite: enrollment priority will be given to students in the Recreation Management: Professional Development MS Program and the Recreation Management MS Program. Offered Fall, Winter, Spring, Summer.

REC 732 Cr.3

Human Development and Group Dynamics

This course is designed to introduce the basic principles of group dynamics and functioning. These principles are directly applicable to staff/team development and training, organizational leadership, facilitation, board development, and assessment/evaluation strategies. Students engage theories and models of human and group development, group effectiveness, as well as leadership and facilitation in relation to concerns directly germane to community, private, and commercial recreation setting. Seven week course. Prerequisite: enrollment priority will be given to students in the Recreation Management: Professional Development MS Program and the Recreation Management MS Program. Offered Fall, Winter, Spring, Summer.

REC 733 Cr.3

Diversity and Social Justice in Recreation Management

This course explores the range of experiences and perspectives of diverse populations with a particular focus on the leisure experience. A focus will be placed on the experiences of members of minority populations including issues related to race, gender, sexual orientation, gender identity, religion, social status, age, and disability. Students will be introduced to factors that influence the experience of leisure and leisure service delivery. Seven week course. Prerequisite: enrollment priority will be given to students in the Recreation Management: Professional Development MS Program and the Recreation Management MS Program. Offered Fall, Winter, Spring, Summer.

REC 734 Cr.3

Experience Management

This course is designed to help students understand how visitors impact organizations directly and indirectly tied to tourism. The course will examine the visitor experience and how the experience visitors are looking for impacts management and marketing decisions. The importance of customer service and the attitudes and perceptions of residents will be reviewed. The course will explore how organizations can prepare for visitors and make strategic decisions with both residents and visitors in mind. Seven week course. Prerequisite: enrollment priority will be given to students in the Recreation Management: Professional Development MS Program and the Recreation Management MS Program. Offered Fall, Winter, Spring, Summer.

REC 735 Cr.1-3

Management Topics in Recreation and Leisure Services

This course will cover topics related to various facets of management of recreation and leisure services. Topics will be determined by REC faculty based on the current needs of the field and interest of students. Seven week course. This course is repeatable in the same term for up to three credits. Repeatable for credit - maximum three. Prerequisite: enrollment priority will be given to students in the Recreation Management: Professional Development MS Program and the Recreation Management MS Program. Offered Fall, Winter, Spring, Summer.

REC 736 Cr.3

Collaborative Approaches to Recreation and Leisure Service Delivery

This course is designed to help students understand a variety of collaborative approaches to leisure service delivery. Students will focus heavily on the administration of various types of alternative funding models including fund development, grants, and capital campaigns. In addition, students will build an understanding of collaborative approaches to the operations of leisure service agencies including partnerships, outsourcing, and privatization. Seven week course. Prerequisite: enrollment priority will be given to students in the Recreation Management: Professional Development MS Program and the Recreation Management MS Program. Offered Fall, Winter, Spring, Summer.

REC 737 Cr.1-3

Contemporary Issues in Recreation Management

This course includes topics not covered by present REC courses. The particular topics selected will be determined by the REC faculty according to the current needs of the field and student interest. Seven week course. This course is repeatable in the same term for up to three credits. Repeatable for credit - maximum three. Prerequisite: enrollment priority will be given to students in the Recreation Management: Professional Development MS Program and the Recreation Management MS Program. Offered Fall, Winter, Spring, Summer.

REC 738 Cr.3

Capstone Seminar in Recreation Management

The capstone is designed as a culmination of the graduate program experience. The course will allow students to integrate their skills and knowledge gained over the course of their program. Repeatable for credit - maximum six. Prerequisite: enrollment priority will be given to students in the Recreation Management: Professional Development MS Program and the Recreation Management MS Program. Offered Fall, Winter, Spring, Summer.

REC 740 Cr.1-3

Outdoor Education

A study of the philosophy, resources, skills, methods and activities associated with the natural environment as a laboratory for the achievement of some of the purposes and objectives of education. The focus of the course is on direct participation and leadership situations in the out-of-doors. Repeatable for credit - maximum four. Offered Occasionally.

REC 761 Cr.1-6

Graduate Project in Recreation

An independent investigation of advanced level study in the leisure service profession. Examples of professional projects include development of agency manuals, development of agency comprehensive assessments, research projects, recreation business proposals, program development and evaluation, and recreation comprehensive plans. Repeatable for credit - maximum six. Consent of department. Offered Fall, Spring, Summer.

REC 780 Cr.3

A Comparative Approach to Leisure and Society

This course will survey leisure practices throughout the world and make a comparison of how leisure is perceived in other societies. Prerequisite: REC 701. Offered Occasionally.

REC 790 Cr.1-3

Advanced Seminar - Recreation Management

Various current professional and theoretical topics will be presented in workshop format. Visiting scholars will supplement faculty presentations. Repeatable for credit - maximum six. Offered Occasionally.

REC 795 Cr.1-3

Independent Study in Recreation

Individualized study of areas not available in existing courses. Repeatable for credit - maximum six. Consent of instructor. Offered Fall, Spring, Summer.

REC 797 Cr.1-3

Special Projects in Recreation Management

Individualized study areas not available in existing courses or independent study. Emphasis is on the planning, implementation, and evaluation of a recreation leisure project. Projects are completed under the supervision of the director and graduate faculty in the department. Repeatable for credit - maximum six. Offered Fall, Spring, Summer.

REC 799 Cr.1-6

Research: Master's Thesis

Independent research project selected and executed under the direction of a graduate faculty member by students electing to write a thesis. The project may be in any area related to recreation and parks. Maximum six credits allowed toward degree for graduation. Consent of department. Offered Fall, Spring, Summer.

School Health Education (SHE) - Graduate Courses

Courses

SHE 410/510 Cr.6

Application of Curriculum Processes and Instructional Techniques

This senior level experience provides an opportunity to apply the knowledge, skills, and dispositions of the Interstate Teacher Assessment and Support Consortium Standards (InTASC). The primary focus is on a teacher candidate's growth and development in the InTASC standards. The traditional field experience or participation in a Professional Development School experience will address how the InTASC standards impact teaching and learning. Further analysis of method selection and instructional strategy development is included from a practical as well as philosophical point of view. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect 4, Lab 2. Offered Fall.

SHE 415/515 Cr.3

School Leadership for Health Educators

This course will develop teacher candidates' leadership skills in school health programming. An overview will be included on the following topics: group dynamics, leadership theories and styles, resources and grants, curriculum assessment and analysis, administration and coordination of health curriculum, and professional skills. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: SHE 310 or equivalent. Must be taken concurrently with SHE 510 and acceptance into teacher education program. Offered Fall.

CHE/SHE 475/575 Cr.1-3

Workshop in Health Education

Group study of varying health education topics, community agencies, and educational institutions. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit under different topics - maximum six credits combined CHE/SHE. (Cross-listed with CHE/SHE.) Departmental option for pass/fail grading. Consent of instructor. Offered Occasionally.

SHE 705 Cr.2

Introduction to School Health Education

This introductory course will cover the components of Comprehensive School Health Education programs including: basic health knowledge, central health concepts, health tools of inquiry, and pedagogical practices within the field of health education; the role, function, and responsibility of a health education teacher; an overview of health content and common teaching strategies; history of health education; common school health education philosophical and theoretical approaches; and National and State Health Education Standards. Prerequisite: admission to school health education 910 or master's degree program. Offered Spring.

SHE 710 Cr.3

Leadership in Health Education

This course will provide graduate students with the knowledge and skills necessary to provide leadership for health education in their schools and communities. Included will be an overview of comprehensive/coordinated school health programs, behavioral change theory, leadership skill development, community partnership development, and program planning and administration. Offered Summer.

SHE 715 Cr.3

Health Education Curriculum and Pedagogy

This course will provide graduate students with the knowledge and skills necessary to develop effective curriculum and learning strategies for health education. The course will provide a hands-on atmosphere where knowledge is used and skills are practiced. Offered Summer.

SHE 720 Cr.4

Health Issues of Youth and Adults

This exploratory course is designed to identify health issues affecting youth throughout various stages of their development. Societal institutions supporting the healthy growth and development of youth will be identified, while students consider strategies to enable the healthy mental, emotional, physical, social, spiritual, and environmental development of today's youth between the ages of 1-21 years. In addition, this course will provide graduate students who do not have an undergraduate major in health education with the necessary background in health content areas (nutrition, physical activity, sexuality, stress, violence/abuse, substance use and abuse, disease prevention, environmental health, consumer health and mental and emotional health), with application to their own lives. This course will function as a hybrid course with both classroom instruction and distance learning. Prerequisite: SHE 705; admission to school health education 910 certification or master's degree program. Offered Spring.

SHE 792 Cr.1

Student Teaching/Intern Seminar

Through this course for student teachers/interns, university course work is correlated with successful teaching practices in the schools. Students build on their knowledge base, reflect on their teaching, and analyze school culture with their peers. Each seminar aligns with the InTASC Model Core Teaching Standards based on the needs of the student teachers/interns. To be taken concurrently with SHE 494 or 495. Pass/Fail grading. Offered Fall, Spring.

School Psychology (SPY) - Graduate Courses

Courses

SPY 700 Cr.3

School Psychology: Role and Function

This course will guide students in identifying and explaining the roles and functions of school psychologists, as well as the "lenses" (i.e., historical, diversity, developmental and relational) they should consider in interpreting the ways in which school psychologists engage in these roles and functions. Students will also learn about the strategic goals the National Association of School Psychologists (NASP) uses to promote the importance of, and advocate for, school psychologists. Prerequisite: admission to the School Psychology Program. Offered Fall.

SPY 751 Cr.3

School-wide Practices for Academics, Behavior, and Mental Health in a MTSS Model

This course is designed to introduce future practitioners to the Multi-Tiered System of Supports (MTSS) and the application to the school environment. Specific topics will focus on the universal or core interventions addressing the broad areas of academics (i.e., Response to Intervention or RTL), behavior/class management (i.e., Positive Behavior Interventions and Supports or PBIS), and the mental health needs of students. Prerequisite: admission to the School Psychology Program. Offered Fall.

SPY 752 Cr.3

Academic, Behavioral, and Mental Health Interventions

Students will learn methods of systematic data collection and how to translate assessment results into empirically-based interventions. Students will also learn how to develop, implement, and evaluate the effectiveness of appropriate academic, behavior, and mental health interventions for children with different abilities and needs. Prerequisite: SPY 700. Offered Spring.

SPY 757 Cr.3

Psychoeducational Assessment I

This course begins with a review of the history of psychological assessment, psychometric principles, and general assessment and testing practices. Building upon this foundation, the bulk of this course is designed to develop student mastery of the standardized administration of current major individual cognitive and achievement measures. Students will also gain beginning experience in written and oral interpretation of current major cognitive and achievement measures. Lect. 2, Lab 2. Prerequisite: admission to School Psychology Program. Offered Fall.

SPY 758 Cr.3

Psychoeducational Assessment II

This course further develops student skills in psychoeducational assessment. Students will learn various theoretical models that advance assessment processes grounded within an equity and social justice framework, including but not limited to: methods of cognitive assessment within the response-to-intervention framework, assessment procedures for students who are culturally and linguistically diverse (CLD) and/or various ability statuses. To meet these goals, students will be introduced to additional measures of cognitive ability and learn advanced interpretation skills. Prerequisite: SPY 757. Offered Spring.

SPY 761 Cr.1

Orientation to Supervised Practicum in School Psychology

This class covers basic knowledge that will prepare the student for Supervised Practicum in School Psychology I (SPY 762). The skills include: orientation to the school setting, information on legal and ethical requirements, and the initiation of professional skills and accountability. Prerequisite: SPY 757. Offered Winter.

SPY 762 Cr.3

Supervised Practicum in School Psychology I

This is a 200-hour, supervised field experience in the application of school psychology professional skills in a school setting. The applied skills include: data-based decision-making; assessing behavioral, intellectual, cognitive, and academic functioning; and designing and implementing cognitive, academic, and behavioral interventions. Prerequisite: SPY 757; acceptance into the School Psychology Program. Offered Spring.

SPY 763 Cr.3

Supervised Practicum in School Psychology II

This is a 250-hour, supervised field experience in the application of school psychology professional skills in a school setting. The applied skills include data-based decision-making, psychoeducational assessment, counseling, and consultation. Prerequisite: SPY 762. Offered Fall.

SPY 764 Cr.3

Supervised Practicum in School Psychology III

This is a 250-hour, supervised field experience in the application of school psychology professional skills in a school setting. The applied skills include: data-based decision-making; assessing behavioral, intellectual, cognitive, and academic functioning; and in collaboration with others, designing and implementing cognitive, academic, adaptive, social, and behavioral interventions for students of varying abilities, disabilities, strengths, and needs. Prerequisite: SPY 763. Offered Spring.

SPY 771 Cr.3

Application of Multicultural Psychology

This course is an introduction and application of multicultural psychology theory, research, and practice. It aims to develop students' multicultural competence (i.e., knowledge, awareness, and skills) in order to prepare them to live and work with individuals from diverse socio-cultural backgrounds. It also aims to increase students' understanding of, and commitment to, social justice in their personal and professional lives. Prerequisite: SPY 700. Offered Spring.

SPY 772 Cr.3

Counseling and Therapy Methods

Focus on an integrative framework for major theoretical views and methods for use in counseling and therapy. Includes lab and field supervised experiences in individual and group therapy. Prerequisite: admission to the School Psychology Program. Offered Fall.

SPY 773 Cr.3

Advanced Counseling and Therapy Methods

This course is designed to expand on previous therapeutic methods and skills through participating in additional helping relationships in a school setting. Students will be expected to advance their clinical skills by exploring practical and ethical components of critical incidents in schools. Special emphasis will be placed on designing, facilitating, and evaluating group counseling experiences across development stages. Prerequisites: SPY 772; enrollment in School Psychology Program. Offered Spring.

SPY 775 Cr.3

Behavioral Assessment and Management

Students will learn functional behavioral assessment, behavior management techniques, and how to design effective behavioral interventions. Specific topics also include systematic data collection and measuring progress and outcomes. Prerequisite: admission to the School Psychology Program. Offered Fall.

SPY 776 Cr.3

Psychological Consultation and Collaboration

This course emphasizes theory, research, and applications of psychological consultation and collaboration in a school setting. Students will acquire skills for consulting and collaborating with teachers, parents, and related professionals. Additional topics include organizational systems, organizational development, pupil services, prevention, crisis intervention, home/school/community collaboration, program assessment, and needs assessment. Prerequisite: admission to the School Psychology Program or the Special Education Program. Offered Spring.

SPY 795 Cr.1-3

Directed Studies

Directed readings or presentation of material not available in formal departmental courses. Repeatable for credit - maximum three. Offered Occasionally.

SPY 796 Cr.1-3

Professional Topics and Practices in School Psychology

Contemporary topics emphasizing current research, developments and issues in school psychology. Repeatable for credit. Offered Occasionally.

SPY 797 Cr.3-6

Internship in School Psychology

An intense and diverse professional experience in school psychology for a minimum of 600 hours for 3 credits under the supervision of an experienced school psychologist and a university supervisor and within training guidelines defined by the training program. Activities include assessment, interventions, consulting, counseling, pupil services, and applied projects. Repeatable for credit - maximum six. Prerequisite: completion of all other SPY course work except for SPY 801; a passing score on the national school psychology examination or UW-La Crosse comprehensive examinations. Students must have earned grade of "B" or better in SPY 803. Offered Fall, Spring.

SPY 800 Cr.1-3

Specialist Thesis Proposal

This course is designed to help students complete a thesis proposal and the initial stages of writing a thesis. Topics include resource utilization, ethical issues, protection of human subjects, proposal development, research design, data analysis, scientific writing, and APA-style writing. Repeatable for credit - maximum six. Prerequisite: SPY 700; PSY 725 (may be taken concurrently). Pass/Fail grading. Offered Fall, Spring, Summer.

SPY 801 Cr.1-6

Specialist Thesis

Students complete an independent research project and thesis under the direction of three graduate faculty members. Topics must be in an area related to school psychology and be approved by the student's thesis committee. A minimum of six thesis credits is required. A maximum of six credits applicable to degree. Repeatable for credit - maximum 10. Prerequisite: SPY 800 and consent of instructor. Students must register for at least one credit of SPY 801 each semester, beginning the first semester of their third year and continuing until thesis is approved. Offered Fall, Spring, Summer.

SPY 802 Cr.1-3

Research/Specialist Project

This is one of two components of the capstone requirement for the education specialist degree. Students complete a project on an approved topic related to School Psychology. Students may opt to complete: (a) a research project culminating a poster/presentation at an appropriate conference or outlet or (b) a comprehensive research proposal with an extensive literature review and defend to a committee. Prerequisite: PSY 725 (may be taken concurrently). Offered Fall, Spring, Summer.

SPY 803 Cr.1

Case Conceptualization Project

This course is one of two components of the capstone requirement for the education specialist degree. Students will present to a committee a written and oral case defending methodology and outcome of a child evaluated in a school setting. Prerequisite: SPY 764 (may be taken concurrently) and approval of the program director. Consent of department. Offered Spring, Summer.

Special Education (SPE) - Graduate Courses

Courses

SPE 401/501 Cr.3

Introduction to Exceptional Individuals

This course is a general survey of exceptional individuals (disabled and gifted) from birth to 21 years of age. It provides an introduction to special education including history, law, definitions and classification systems, characteristics, etiology, provision of services and educational interventions and procedures related to the various disabilities covered under the law. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: ECE 327 or EDS 351 or EDS 402 or SHE 310 or concurrent enrollment. Consent of instructor. Offered Fall, Winter, Spring, Summer.

SPE 424/524 Cr.3

Classroom Management and Positive Behavior Practices

This course is designed to provide intervention methods and strategies for classroom management as well as positive behavior intervention. The course provides theoretical foundations and practical applications for preventing behavior problems, and for intervening when problems occur. Students are expected to perform at least 10 hours of clinical work in the course, by arrangement with the instructor. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Lect. 2, Lab 1. Consent of instructor. Offered Fall, Spring.

SPE 430/530 Cr.1

Seminar in Special Education

This course provides teacher candidates, currently student teaching, to have directed discussions regarding issues that are occurring in the special education or inclusionary general classroom settings. Candidates will meet on campus to analyze and discuss their experiences with their peers. This course is designed for persons seeking initial teaching licensure in general education and cross-categorical special education. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: completion of all special education certification courses; completion of all general education licensure requirements for student teaching; concurrent enrollment in SPE 483/583 or SPE 484/584. Consent of department. Pass/Fail grading. Offered Fall, Spring.

SPE 540 Cr.3

Collaboration and Transition: School to Community

This course is designed to prepare teachers to collaborate and problem-solve as members of educational teams composed of professionals, agency representatives, and parents. This course focuses on the development of transition plans for adolescents with specific learning disabilities, emotional/behavioral disabilities, and intellectual disabilities; and the plan's impact on educational curriculum and instructional practices, career development and placement practices. Responsibilities of the teacher as a collaborative team member will be covered. Prerequisite: admission to the graduate Special Education Program. Offered Spring.

SPE 446/546 Cr.3

Methods in Cross-Categorical Special Education-Middle Childhood/Early Adolescence

This course focuses on curriculum, methods and strategies used in educating students with disabilities (emotional/behavioral disabilities, specific learning disabilities, and cognitive disabilities) at the middle childhood/early adolescence age level in a variety of educational placements. Topics covered within this course include academic instruction appropriate for students at the middle childhood/early adolescence age level. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Consent of instructor. Offered Spring.

SPE 447/547 Cr.3

Methods in Cross-Categorical Special Education-Early Adolescence/Adolescence

This course focuses on curriculum, methods and strategies used in educating students with disabilities (Emotional/Behavioral Disabilities, Specific Learning Disabilities, and Cognitive Disabilities) at the early adolescence/ adolescence age level in a variety of educational placements. Topics covered within this course include academic instruction appropriate for students at the early adolescence/ adolescence age level. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Consent of instructor. Offered Spring.

SPE 452/552 Cr.3

Individual Educational Assessment

This course addresses educational assessment as it relates to the needs of students with specific learning disabilities, emotional/behavioral disabilities, and intellectual disabilities in the MC/EA setting. Specific approaches for the evaluation of special education eligibility, teaching and instruction, and monitoring student progress are discussed, including norm-referenced tests, curriculum-based assessment, ecological assessment, and observational techniques. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Consent of instructor. Offered Fall.

SPE 561 Cr.2**Field Experience in Special Education**

This course is a field experience for students seeking special education licensure. Students are placed in a public school special education or inclusionary general education classroom setting in which they will experience daily activities with children identified with disabilities (specific learning disabilities, emotional/behavioral disabilities, and cognitive disabilities) and special education teacher responsibilities. This experience will consist of a partial-day classroom experience in a school setting under the direct supervision of a teacher certified to teach students with disabilities at the middle childhood/early adolescence or early adolescence/ adolescence age level. This experience provides a setting in which students are to develop observation and small group teaching experiences. This course is designed for persons seeking initial teaching licensure in general classroom instruction and cross-categorical special education. A multi-day, consistent schedule (typically three consecutive half days) in the field experience classroom will be established by the course instructor in consultation with the teacher candidate and cooperating teacher. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: concurrent enrollment in SPE 546 or SPE 547; admission to the graduate Special Education Program. Consent of department. Offered Fall, Spring.

SPE 475/575 Cr.1-3**Special Topics Seminar in Special Education**

This course is designed to allow students to explore current topics, trends, and issues in the field of special education. Topic(s) to be studied are selected by the instructor based on interest and need. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit - maximum six. (Max three credits applicable to master's degree). Offered Occasionally.

SPE 483/583 Cr.1-11**Student Teaching Cross-Categorical Special Education: Middle Childhood-Early Adolescence**

Student teaching is a full-day, full school semester experience in a public school special education or inclusionary general education classroom setting. Students are placed in a state approved special education program, serving students identified with disabilities (specific learning disabilities, emotional/behavioral disabilities, and/or cognitive disabilities) at middle childhood-early adolescence age level. This experience provides a setting in which students are to demonstrate teaching and assessment abilities related to students with special needs. Students work under the immediate supervision of a certified teacher and a university supervisor. This course is designed for persons seeking initial licensure in middle childhood-early adolescence education and cross-categorical special education at the middle childhood-early adolescence level. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: concurrent enrollment in SPE 430/530. Completion of special ed. courses and all education requirements, including special methods courses; appropriate education faculty recommendation; 2.75 cum GPA and 2.75 GPA in major, minor, concentrations & professional coursework; passing content competency benchmarks; passing scores in WI Foundations of Reading Test. Consent of department. Satisfactory/Unsatisfactory grading. Offered Fall, Spring.

SPE 484/584 Cr.1-11**Student Teaching Cross-Categorical Special Education: Early Adolescence-Adolescence**

Student teaching is a full-day, full school semester experience in a public school special education or inclusionary general education classroom setting. Students are placed in a state approved special education program serving students identified with disabilities (specific learning disabilities, emotional/behavioral disabilities, and/or cognitive disabilities) at the early adolescence-adolescence age level. This experience provides a setting in which students are to demonstrate teaching and assessment abilities related to students with special needs. Students work under the immediate supervision of a certified teacher and a university supervisor. This course is designed for persons seeking initial licensure in early adolescence-adolescence and cross-categorical special education at early adolescence-adolescence level. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: concurrent enrollment in SPE 430/530. Completion of special education courses and all education requirements, including special methods courses; appropriate education faculty recommendation; 2.75 cum GPA and 2.75 GPA in major, minor, concentrations & professional coursework; passing content competency benchmarks; passing scores in WI Foundations of Reading Test. Consent of department. Satisfactory/Unsatisfactory grading. Offered Fall, Spring.

SPE 715 Cr.3**Special Education and the Law**

A study of the law as it relates to access to meaningful educational opportunity for exceptional children. Emphasis will be on the implementation of Wisconsin and federal legislation mandating special education and related services as well as relevant judicial decisions. Prerequisite: admission to graduate Adapted Physical Education Program or School Psychology Program. Offered Spring.

SPE 750 Cr.1-3**Guided Learning in Special Education**

Study of a significant problem, development of a professionally related competency, or acquisition of job-related knowledge through on-or off-campus investigation/experience under the direct supervision of a faculty member. Students may be formed into classes for group discussion of experiences. Repeatable for credit - maximum six. Offered Occasionally.

SPE 761 Cr.2**Research and Seminar in Special Education**

Consideration of current research trends, and problems in teaching in a special education setting. As part of the requirements for this course and for the degree, each student must complete an acceptable seminar paper. Consent of department. Offered Fall, Spring.

SPE 780 Cr.1-3**Seminar in Special Education**

Reading and discussion of selected topics, current trends, and issues in special education. Consent of instructor. Offered Fall, Spring, Summer.

SPE 783 Cr.5

Student Teaching Cross-Categorical Special Education: Middle Childhood/Early Adolescence

This student teaching experience is a full-day experience in a public school special education or inclusionary general education classroom setting. Students are placed in a state approved special education program, serving students identified with disabilities (specific learning disabilities, emotional/behavioral disabilities, and/or cognitive disabilities) at the middle childhood/early adolescence developmental range. This experience provides a setting in which students are to demonstrate teaching and assessment abilities related to students with special needs. Students work under the supervision of a certified teacher and a university supervisor. Prerequisite: completion of all special education core courses and certification option courses; to be taken concurrently with SPE 786. Satisfactory/Unsatisfactory grading. Offered Fall, Spring.

SPE 784 Cr.5

Student Teaching Cross-Categorical Special Education: Early Adolescence/Adolescence

This student teaching experience is a full-day experience in a public school special education or inclusionary general education classroom setting. Students are placed in a state approved special education program, serving students identified with disabilities (specific learning disabilities, emotional/behavioral disabilities, and/or cognitive disabilities) at the early adolescence/adolescence age level. This experience provides a setting in which students are to demonstrate teaching and assessment abilities related to students with special needs. Students work under the immediate supervision of a certified teacher and a university supervisor. Prerequisite: completion of all special education core courses and certification option courses; to be taken concurrently with SPE 786. Satisfactory/Unsatisfactory grading. Offered Fall, Spring.

SPE 786 Cr.2

Graduate Seminar in Special Education

This course provides students, currently enrolled in a practica, to have directed discussions regarding issues that are occurring in the special education or inclusionary general classroom settings. Students will meet to discuss their experiences with other students having similar learning experiences. Prerequisite: Completion of all special education core courses and certification option courses; to be taken concurrently with SPE 783 or SPE 784. Pass/Fail grading. Offered Occasionally.

SPE 796 Cr.1-2

Directed Studies

Directed readings or presentation of material not available in formal departmental courses. Repeatable for credit - maximum four. Offered Occasionally.

SPE 799 Cr.2-6

Research: Master's Thesis

Independent study on a problem selected for a thesis, under the direction of an assigned staff member. Attendance at class meetings of SPE 761 is expected on enrollment. Repeatable for credit - maximum six. Offered Fall, Spring, Summer.

Statistics (STAT) - Graduate Courses

Courses

STAT 405/505 Cr.3

Statistical Methods

A survey of statistical methods from the point of view of how these methods are implemented with a standard statistics software package. Topics include descriptive statistics, graphical methods, tests of location, goodness of fit, simple and multiple regression, design of experiments, ANOVA, multiple comparisons, chi-square tests. Both parametric and nonparametric methods are treated. Computer use is an integral part of the course. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: grade of "C" or better in STAT 145 or STAT 245. Offered Fall.

STAT 441/541 Cr.3

Mathematical Statistics I

Review of discrete and continuous random variables. Moment generating functions, multivariate probability distributions, marginal and conditional probability distributions, functions of random variables, order statistics, Central Limit Theorem, point estimation and confidence intervals. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: grade of "C" or better in STAT 245 and MTH 310. Offered Fall.

STAT 442/542 Cr.3

Mathematical Statistics II

Methods of estimating, including method of moments and maximum likelihood. Sufficient statistics, hypothesis testing, power of tests, likelihood ratio tests and introduction to regression and analysis of variance. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: grade of "C" or better in STAT 541. Offered Spring.

STAT 443/543 Cr.3

Categorical Data Analysis

An introduction to categorical data analysis covering summaries and inference for categorical response and count data, analysis of contingency tables, generalized linear models for binary and count data, logistic regression, multcategory logit models, and log-linear models for contingency tables with an emphasis on applications and implementation using computer software. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: grade of "C" or better in STAT 245 or STAT 405/505. Offered Fall - Even Numbered Years.

STAT 445/545 Cr.3

Correlation and Regression Analysis

An introduction to simple linear regression, multiple regression, polynomial regression. Inferences, appropriateness of model, model diagnostics/adequacy, difficulties in the application of models are discussed. A computer package will be used. Course participants will be involved with hands-on statistical applications and consulting. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: grade of "C" or better in STAT 245 or STAT 405/505. Offered Fall.

STAT 446/546 Cr.3

Analysis of Variance and Design of Experiments

An introduction to single factor, and randomized block designs in analysis of variance. Inferences, appropriateness of model, model diagnostics/adequacy, difficulties in the application of models are discussed. Design or structure of an experiment will be discussed. A computer package will be used. Course participants will be involved with hands-on statistical applications and consulting. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: grade of "C" or better in STAT 245 or STAT 405/505. Offered Spring.

STAT 447/547 Cr.3

Nonparametric Statistics

An introductory course presenting the theory and procedures for using distribution-free methods in data analysis. Standard procedures, such as the Wilcoxon tests, Kruskal-Wallis, Kolmogorov-Smirnov, nonparametric confidence intervals, regression analysis, and powers of the tests will be included. Computer programs will be used when appropriate. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: grade of "C" or better in STAT 245 or STAT 405/505. Offered Spring - Even Numbered Years.

STAT 448/548 Cr.3

Operations Research

An introductory course which applies mathematics/statistics to management decision making. Included are methods of optimizing systems, decision analysis, simulation, and reliability. Various programming techniques are introduced with the computer used as a tool where appropriate. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: grade of "C" or better in STAT 245 or STAT 405. Offered Spring - Odd Numbered Years.

STAT 449/549 Cr.3

Applied Multivariate Statistics

An introduction to applied multivariate statistical methods covering multivariate analysis of variance, multivariate analysis of covariance, repeated measures design, factor analysis, principle component analysis, cluster analysis, discriminate analysis, and multivariate regression. Course participants will be involved with hands-on statistical applications. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: grade of "C" or better in STAT 245 or STAT 405/505. Offered Fall - Odd Numbered Years.

STAT 452/552 Cr.1

Introduction to SAS

This course will provide students with an introduction to the statistical software SAS. Students will learn the syntax that is necessary to write SAS code to perform basic statistical techniques, including data manipulation, graphical displays, and common statistical inference procedures. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: STAT 505 or STAT 543 or STAT 545 or STAT 546 or STAT 547 or STAT 549. Pass/Fail grading. Offered Winter.

STAT 496/596 Cr.1-3

Special Topics in Statistics

Special topics in statistics not covered by regular courses taught in this department. The particular topic is decided by the instructor. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit—maximum six. Consent of instructor. Offered Occasionally.

STAT 762 Cr.3

Bayesian Statistics

This course will introduce students to Bayesian statistical inference. It covers a discussion of subjective probability and assessment, Bayes' rule, Bayesian inference for one and two parameter problems, Bayesian testing and model diagnostics, Bayesian computation (Markov Chain Monte Carlo, Metropolis-Hastings, and Gibbs Sampling), hierarchical Bayesian methods, and model comparisons. Prerequisite: STAT 345; STAT 441/541. Offered Spring - Odd Numbered Years.

STAT 763 Cr.3

Survey of Modern Statistical Software

This course exposes students to a variety of software packages that are relevant to the field of statistics. Advantages and disadvantages of the software for performing various common statistical procedures will be highlighted. Prerequisite: admission to the graduate applied statistics program. Offered Spring - Even Numbered Years.

STAT 764 Cr.3

Statistical Learning

Students will learn the process of extracting useful information from large data sets using techniques from data mining and machine learning from a statistical point of view, including methods for classification, association, and clustering. Method selection, computer implementation, and interpretation of results are the focus of the course. May also be referred to as predictive analytics. Prerequisite: STAT 345. Offered Fall - Even Numbered Years.

STAT 766 Cr.3

Biostatistics

This course aims to provide students an enriched knowledge regarding the theory and applications of statistics in the health sciences. This course will include a discussion of general techniques and concepts such as relative risk, odds ratio, attributable risk, hazard models, survival analysis, and other related topics. This course will use statistical software to facilitate computations in data analysis. Prerequisite: STAT 445/545 or STAT 446/546 or concurrent enrollment. Offered Fall - Odd Numbered Years.

STAT 796 Cr.1-6

Graduate Project in Applied Statistics

Independent research on a problem selected for a graduate capstone project under the direction of a faculty member. Repeatable for credit - maximum six. Prerequisite: at least nine graduate credits from STAT 543, STAT 545, STAT 546, STAT 547, STAT 549, STAT 762, STAT 763, STAT 764, STAT 766. Consent of instructor. Pass/Fail grading. Offered Fall, Spring, Summer.

STAT 798 Cr.1-3

Independent Study

Directed readings or presentation of material not available in formal departmental courses under the supervision of a faculty member. Registration by consent of supervising faculty member and department chair. Repeatable for credit - maximum six. Consent of instructor. Offered Occasionally.

STAT 799 Cr.1-6

Master's Thesis

Independent research on a problem selected for a thesis under the direction of a faculty member. Repeatable for credit - maximum 12. Maximum of six credits per semester. Prerequisite: at least nine graduate credits from STAT 543, STAT 545, STAT 546, STAT 547, STAT 549, STAT 762, STAT 763, STAT 764, STAT 766. Consent of instructor. Pass/Fail grading. Offered Fall, Spring, Summer.

Student Affairs Administration (SAA) - Graduate Courses

Courses

SAA 700 Cr.3

Professional and Ethical Foundations in Student Affairs

This course provides an overview of the professional standards, ethics, and competencies used throughout the student affairs administration profession. The course explores a wide range of student affairs functional areas and related professional organizations. Scholarly writing expectations and APA Style guidelines are a focus of the course to further develop students' written communication skills. Prerequisite: admission to student affairs administration in higher education MSSED program. Offered Fall, Summer.

SAA 702 Cr.3

Student Development Theory

This course provides a foundation for current college student developmental theories which provides insight into the processes of student learning, growth, and development during the college years. Emphasis is placed on the application of developmental theories to diverse college populations and environments, as well as understanding the implications of these models for the policies and practices of higher education. Prerequisite: admission to student affairs administration in higher education MSSED program. Offered Fall, Summer.

SAA 704 Cr.3

Leadership and Organizational Theories

This course provides an overview of a variety of leadership and organizational theories, emphasizing those with practical application for meeting the challenges confronting student affairs professionals in higher education. Several theories will be reviewed, including (but not limited to) trait leadership, political leadership, systems leadership, transformative leadership, and servant leadership. Course participants will explore the ways in which gender, race/ethnicity, and other identities shape how leadership is expressed and received. Prerequisite: admission to student affairs administration in higher education MSSED program. Offered Spring, Summer.

SAA 705 Cr.3

Higher Education Values, Philosophy, and History

This course introduces students to the history, philosophy, and values of higher education in the United States from the Colonial era to the early 21st Century. The study of the history of higher education serves as a way to develop critical thinking skills in the academic discipline and profession of student affairs. Understanding how values, beliefs, assumptions, ideas, and other forces (such as people, culture, society, politics or economics) have shaped US higher education is a core component of the course. Of critical importance is an examination of the history of marginalized groups in higher education and an examination of the impact of federal higher education policy on the development of higher education in the US. The course provides a conceptual understanding of the dynamics of higher education rather than the memorization of "facts" and names. Prerequisite: admission to student affairs administration in higher education MSSED program. Offered Fall.

SAA 706 Cr.3

Advising and Supporting

This course introduces students to the knowledge, skills, and dispositions related to providing advising and support to individuals and groups through direction, feedback, critique, referral, and guidance. Students will apply theoretical knowledge to practice by developing advising and supporting strategies that take into account self-knowledge and the needs of others to advance the holistic wellness of self, students, and colleagues. Course content will also focus on appropriate crisis management response and applicable policies and ethical guidelines related to advising and student support. Prerequisite: admission to student affairs administration in higher education MSSED program. Offered Fall, Spring.

SAA 708 Cr.3

Social Justice and Inclusion

This course provides a critical understanding of diversity issues in American higher education and student affairs. The course will review the diversity of institutions, student experiences, and student identities, with a focus on how that diversity enriches and adds value to the learning environment. The course introduces the concept of social justice work in student affairs, which involves both responding to students in a culturally competent manner as well as shaping institutional environments, policies, and practices to achieve more equitable outcomes. By the end of this course, students should deepen their equity, diversity, and inclusion competencies; and understand their own agency and social responsibility inclusive of others, their community, and the larger global context. Prerequisite: admission to student affairs administration in higher education MSSED program. Offered Fall, Spring.

SAA 720 Cr.1-3

Special Topics in Student Affairs Administration

This course covers special topics in student affairs administration. The particular topic(s) selected will be determined by the SAA faculty according to current need and interest. Repeatable for credit – maximum six. Prerequisite: admission to student affairs administration in higher education MSSED program or student affairs administration and leadership EDD program. Offered Annually.

SAA 730 Cr.3

Law, Policy, and Governance in Student Affairs

This course will include an overview of law, policy, and governance in higher education and student affairs. This includes the knowledge, skills, and dispositions relating to policy development processes used in various contexts, the application of legal constructs, compliance/policy issues, and the understanding of governance structures and their impact on one's professional practice. The application of educational law, legal risks and the responsibilities of student affairs professionals in higher education will be addressed. Prerequisite: admission to student affairs administration in higher education MSSED program. Offered Spring, Summer.

SAA 760 Cr.3

Administration of Human and Organizational Resources

This course focuses on the administration of institutional human capital, financial, and physical resources. Student affairs professionals bring personal strengths and grow as managers through challenging themselves to build new skills in the selection, supervision, motivation, and formal evaluation of staff; resolution of conflict; management of the politics of organizational discourse; and the effective application of strategies and techniques associated with financial resources, facilities management, fundraising, technology, crisis management, risk management and sustainable resources. Offered Spring.

SAA 765 Cr.3

Assessment and Evaluation in Student Affairs

This course introduces students to the critical issues and practice of assessment and program evaluation in student affairs. The course reinforces the need to make data-driven decisions about how to best work with students at both two and four-year institutions. Course content will focus on assessment goals, methods to assess student learning and program outcomes, systematic program evaluation, identifying questions associated with assessment and evaluation, and conducting critical reviews of existing research related to issues in student affairs. Prerequisite: admission to student affairs administration in higher education MSED program. Offered Spring.

SAA 775 Cr.1-3

Student Affairs Practicum

Practical experience in student or academic affairs, under professional supervision. Students will complete projects that increase their skills, knowledge, or abilities in the competency areas outlined by ACPA/NASPA. The student will spend a minimum of 70 hours per credit at the site. Repeatable for credit – maximum six. Prerequisite: admission to student affairs administration in higher education MSED program. Pass/Fail grading. Offered Fall, Spring, Summer.

SAA 780 Cr.3

Capstone Research and Proposal

Content includes an overview of research methods, statistical analysis, needs assessments, and research in higher education. This course will involve students in the development of a research, assessment or evaluation project that has practical application for student affairs in a higher education setting. Students will be expected to apply the knowledge gained in the coursework to a specific issue in student affairs. Prerequisite: admission to student affairs administration in higher education MSED program. Offered Fall.

SAA 790 Cr.3

Capstone Seminar in Student Affairs Administration

This course provides an avenue for culminating and integrating the graduate program experience through the exploration and analysis of contemporary concerns in higher education and student affairs. To be taken during the student's final semester. Prerequisite: admission to student affairs administration in higher education MSED program. Offered Spring.

SAA 795 Cr.1-3

Independent Study in Student Affairs Administration

Independent study and completion of a paper on a topic approved and directed by a SAA faculty member. Repeatable for credit – maximum three. Prerequisite: admission to student affairs administration in higher education MSED program. Consent of instructor. Offered Fall, Spring, Summer.

SAA 800 Cr.3

21st Century Learners

This course provides advanced graduate students with a comprehensive understanding of theories and research related to student development in higher education, with attention paid to the ways in which college student enrollment patterns are shifting, and thus, college student identity development is more diverse and ever evolving. Student development theories and enrollment trends in higher education will help students better understand the complexities and differences among and between traditional and emerging college students. Course readings and activities focus on the experiences of students of diverse backgrounds, including working students, veterans, part-time students, and online students. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Summer.

SAA 805 Cr.3

Organization and Governance

This course provides an overview of organizational and governance structures in higher education by examining how institutions are organized, governed and influenced by internal and external policy-makers and stakeholders. How these stakeholders drive change in the organization and governance of higher educational institutions will be explored. A variety of institutional types (community colleges, technical colleges, liberal arts colleges, comprehensive universities, research universities) and funding models (public, private non-profit, private for-profit) will be considered, along with theoretical principles of organizational theory. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Summer.

SAA 808 Cr.3

Enrollment Management

Student affairs administrators play a major role in ensuring the success and viability of their institutions through their work in enrollment management. Understanding factors that shape students' college choice are key components of successful enrollment management, as are institutional decisions regarding marketing, recruitment, and admission of students. Ways in which institutions use financial aid, grants, and tuition discounting to assist students in deciding which institution to attend are examined. Enrollment management is concerned with the student mix, ensuring the student class is diverse, talented, and able to contribute to the education of all students at the institution. Student success is an equally important aspect of enrollment management. An examination of ways in which institutions support student success is included in this course. In addition, the intersection of enrollment management and institutional finances is explored. Access, retention, and graduation are key measures used to evaluate the success of an institution's enrollment management policies. Identification of strategic institutional enrollment management plans based on enrollment management theory, frameworks, and orientations will be explored. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Summer.

SAA 810 Cr.3

Philosophical and Theoretical Foundations of Leadership in Education

This interdisciplinary course provides a foundation for the development of personal and professional leadership style grounded in the evolution of leadership theory and reflective of the influence of social locations and identities. Through exposure to recognized leaders in education and other fields, students will postulate what leadership principles resonate with their area of work and study. Students will engage in interdisciplinary analyses of leadership theories and philosophies, and will examine the complex ethical and professional responsibilities within professional and community relationships. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Fall.

SAA 820 Cr.3

Critical Analysis of Systemic Inequities: Challenges of Social Justice

From pre-kindergarten through college, institutions of education struggle with creating equitable outcomes for underrepresented and/or marginalized groups. This course will study the ways in which educational systems replicate inequitable outcomes, from degree completion gaps for groups of varying ethnic/racial or social class backgrounds, to patterns of gender discrimination in faculty advancement. The course will focus on multicultural organizational development, equity scorecards, multicultural change intervention matrices, and other theories and practices to prepare educators to cultivate more equitable educational systems in the U.S. The focus is less on individual forms of diversity and more on systemic or institutional efforts to achieve greater equity. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Spring.

SAA 825 Cr.3

Finance and Budgeting

Solid fiscal management is a critical skill for effective leadership in student affairs units in higher education. This course prepares student affairs administrators for effective fiscal management by examining revenue sources and expenditures, the reasons for rising college prices, the challenges associated with accessibility and affordability, and the roles of states, the federal government, and institutions in financing higher education. The course also explores ways to increase cost effectiveness and institutional and departmental budgeting processes. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Spring.

SAA 830 Cr.3

Qualitative Research Methods

This course is designed to give students more applied knowledge and experience with developing and implementing an independent qualitative research study. This course aims to enhance student development in qualitative research design, data collection, analysis, and reporting. The course will cover key theoretical concepts and methodological approaches to qualitative inquiry. Students will complete a sample qualitative research project from the initial stages of conceptualization of the study to the reporting of findings. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Spring.

SAA 835 Cr.3

Assessment and Program Evaluation

This course focuses on the art of assessment in student affairs, including setting assessment goals, designing an assessment project, selecting methods for data collection and analysis, interpreting and reporting findings, as well as evaluating program effectiveness with assessment results. In recent years, student affairs units across the U.S. have vastly increased their engagement and inquiries about the college student experience, including student preparation for college, their needs and satisfaction once on campus, their attitudes and behaviors, their membership in distinct student cultures, their usage of campus services, and their overall experience and success. The need to make data-driven decisions about how to best serve and develop college students has stemmed from political, societal, and fiscal pressures. As a result, doctoral students must develop their skills and knowledge to lead institutional or unit efforts in assessment on their own campuses. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Fall.

SAA 840 Cr.3

Supervision and Human Resource Management

Preparing and leading a diverse workforce for a changing higher education environment can be challenging. Leadership in student affairs requires effective management of our greatest resource - personnel. This course applies leadership theories learned earlier in the program through an applied approach to the management of people in complex organizations. Included is a review of various methods of recruitment, selection, and orientation of new personnel as well as performance management, compensation, supervision, training and development of existing personnel. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Fall.

SAA 845 Cr.3

Quantitative Research Methods

This course will focus on understanding the concepts of design and analysis of quantitative research in student affairs. The course reviews methodological considerations for experimental, quasi-experimental, and co-relational research with a focus on understanding issues of causal inference, sampling, validity, measurement, hypothesis testing, analytic strategies and reporting. We will use readings of experimental and non-experimental research studies on a range of issues in the field of student affairs in order to critically evaluate the strengths and weaknesses of various research design and analytic choices. Through these readings students will learn to engage in scholarly critiques of quantitative research, conduct a methodological review of quantitative research in an area of interest, and form a foundation for understanding and developing methodologically sound quantitative research. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Summer.

SAA 855 Cr.3

Specialized Study

This course is part of the Ed.D. in Student Affairs Administration and Leadership program and is designed to provide specialized study in a unique area of interest offered by one of the university partners in the UW System Collaborative Ed.D. program. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership; approval of faculty advisor for applicability of course to Ed.D. Offered Fall, Spring, Summer.

SAA 865 Cr.3

Strategic Planning and Managing Change

In this course, students will explore strategic institutional and programmatic planning to enhance institutional effectiveness. A major goal of this course will be to ensure an understanding of and appreciation for the range of approaches that can be taken to strategic planning in tandem with change management theory and application. Course participants will become familiar with current best practices in strategic planning and change management that support the drive toward institutional effectiveness. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Summer.

SAA 870 Cr.3

Policy and Regulatory Compliance

Creating an institutional culture of compliance, centered on a strong compliance program that addresses and coordinates all requirements with which the institution must comply, is a key function of higher education administrators. This course will provide student affairs administrators with knowledge and resources about laws, regulations, and institutional policies that support best practices in institutional strategies for creating a safe environment for student learning. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Fall.

SAA 875 Cr.3

Organizational Communication

Administrative leaders are required to manage people and the flow of information in ways that keep the campus community informed while also respecting confidentiality and sensitivity to institutional risk. Understanding how people communicate, how good working relationships are formed and maintained, how to develop cohesive work groups, and how to communicate are essential characteristics of successful administrators. This course will focus on organizational structure and theory, as well as on group dynamics and interpersonal communication as applied to post-secondary institutions. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Summer.

SAA 898 Cr.1-3

Special Topics in Student Affairs Administration and Leadership

Special topics of interest to professionals in the field of student affairs are offered in this course. Topics change as needed. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Occasionally.

SAA 899 Cr.1-3

Independent Study

This course provides an opportunity for advanced individualized independent study at the post-masters level or at the post-doctorate level. Students enrolled in the Ed.D. in Student Affairs Administration and Leadership program may also enroll. Prerequisite: admission to Ed.D. Program in Student Affairs Administration and Leadership. Offered Fall, Winter, Spring.

SAA 930 Cr.2

Dissertation Planning Workshop

This course serves as an introduction to the dissertation process. The workshop format will allow students to explore possible topics for their dissertations. Students will consider the broad array of dissertation formats and topics available to them. In the context of the workshop, students will develop and articulate a focused dissertation topic and will conduct an initial review of the relevant literature and existing research. Prerequisite: SAA 830 or SAA 845 (may be taken concurrently with either course). Offered Summer.

SAA 931 Cr.1

Doctoral Writers' Retreat

This course is an optional writing retreat for doctoral students beginning the dissertation journey. The retreat is held on-campus at UW-La Crosse over a long weekend. Students will read about, present on, and discuss various writing strategies and reflect on their own writing processes. Repeatable for credit - maximum two. Prerequisite: SAA 930 or concurrent. Offered Summer.

SAA 950 Cr.3

Dissertation Seminar

The purpose of this seminar is to mentor and support students as they draft their dissertation proposals. The seminar format will allow students to discuss design decisions for their systematic inquiry, share work in progress, and receive feedback from peers and the instructor. This course will also introduce the student to processes such as how to structure a dissertation proposal, conduct a literature review, prepare for the ethics of fieldwork and submit a proposal to the Institutional Review Board, and clearly articulate a study's design. Prerequisite: SAA 830, SAA 845, SAA 930. Offered Summer.

SAA 990 Cr.3

Dissertation I

This course builds on the foundation established in SAA 950, Dissertation Seminar, and is designed to continue support of the Ed.D. dissertation. Prerequisite: SAA 950 and successful defense of dissertation proposal. Consent of instructor. Pass/Fail grading. Offered Fall, Spring, Summer.

SAA 995 Cr.1-3

Dissertation II

This course supports the completion of a dissertation as required for the Ed.D. in Student Affairs Administration and Leadership. Prerequisite: SAA 990. Pass/Fail grading. Offered Fall, Winter, Spring.

Teaching English to Speakers of Other Languages (TSL) - Graduate Courses

Courses

TSL 400/500 Cr.3

Teaching English to Speakers of Other Languages (TESOL) Policies and Program Models

This course provides an overview of teaching of English to speakers of other languages (ESOL) in the United States. Course topics include the history of bilingual and ESOL educational policies and practices in the U.S., historical and current program models for teaching English language learners (ELLs), and content-based instruction. Students learn how to plan for ELL instruction in general education and ESOL classes. In addition, students develop skills to advocate for ELLs in educational settings. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Consent of department. Offered Fall.

TSL 450/550 Cr.1-3

TESOL National/International Internship Program

Through the TESOL internship, students gain practical experience in classrooms teaching non-native speakers of English in settings such as adult literacy programs, after-school enrichment programs, university-level ESL programs, and EFL programs abroad. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit - maximum three. Consent of department. Pass/Fail grading. Offered Fall, Winter, Spring, Summer.

TSL 463/563 Cr.3

Teaching English to Speakers of Other Languages (TESOL) Methods

This course increases students' understanding of techniques and methods to teach English to speakers of other languages (ESOL). Students identify the historical development of approaches and methodologies for teaching ESOL, understand foundational principles of teaching ESOL, and explore individual English language learner (ELL) differences and how to account for these in instruction. Students also further develop the skills to plan instruction, including lesson and unit plans, and master teaching techniques for each of the four skills and grammar. Additionally, students explore materials and technology available for teaching ESOL and design an action research project. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: TSL 500. Offered Spring.

TSL 798 Cr.1-3

Independent Study

Fieldwork, research, individual projects in a specific area related to teaching English to speakers of other languages. Registration with the consent of instructor and the department chairperson. Repeatable for credit - maximum six. Consent of instructor. Offered Occasionally.

Theatre Arts (THA) - Graduate Courses

Courses

THA 472/572 Cr.3

Theatre Management

The principles and methods involved in the operation of the non-commercial theatre: organization, play selection, building an audience, publicity, advertising, graphic reproduction, ticket sales, box office routines, house management, touring, and business records. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectation. Prerequisite: THA 110, with the exception of theatre arts majors and minors. Offered Spring - Even Numbered Years.

Therapeutic Recreation (RTH) - Graduate Courses

Courses

RTH 414/514 Cr.3

Adaptive Sports and Therapeutic Recreation

This course will provide an introduction to how therapeutic recreation specialists use adaptive sports, recreation, and leisure activities for individuals with disabilities to meet treatment goals and improve quality of life. Emphasis is given to the history and rules of a variety of adaptive sports, and possible settings where these could take place. The examination of each sport will include a focus on its connection to the therapeutic recreation profession. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Spring.

RTH 520 Cr.3

Nature and Forest Therapy

This course is designed to provide students with specialized sessions relating to nature-based therapy knowledge and application in outdoor leisure and therapeutic recreation settings from international and domestic perspectives. The course will provide special emphases on general nature-based therapy concepts and benefits, planning for nature-based therapy walks with various clients with and/or without special needs, the process of implementing nature-based therapy walks, actualizing mindfulness in nature, nature connection, relevant environmental literature (e.g., outdoor therapies related to trauma or depression), interactions between humans and environments, medicinal plants, and practice doing therapeutic walks. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: RTH 250 and RTH 329. Offered Fall, Summer.

RTH 430/530 Cr.3

Therapeutic Recreation and Mental Health

This course is designed to provide students with information regarding therapeutic recreation services to persons with mental illness, and substance abuse disorders, or individuals served in behavioral health treatment facilities. Course emphasizes mental health recovery, activities to facilitate change in different behavioral domains, therapeutic interventions for adults and children, treatment settings and services, and trends in recreation therapy program delivery. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall.

RTH 432/532 Cr.3

Therapeutic Recreation for Persons With Physical Disabilities

This course is designed to provide students with information relating to therapeutic recreation services for individuals with physical disabilities. Programming considerations will include treatment concerns, community inclusion, wheelchair sports and leisure activities. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Spring.

RTH 434/534 Cr.3

Therapeutic Recreation for Individuals with Intellectual and Developmental Disabilities

This course will introduce students to therapeutic recreation interventions and facilitation techniques commonly used by professionals who work with individuals who have intellectual and developmental disabilities. The course will emphasize behavioral and developmental approaches to working with this population and address the social and sensory needs of this population within a leisure context. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall.

RTH 445/545 Cr.3

Recreational Therapy for Older Adults

This course teaches students to facilitate psychosocial intervention to address needs, strategies, techniques, and approaches for older adults with chronic health conditions through health promotion and leisure activities. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Spring.

RTH 456/556 Cr.3

Program Design and Administration of Therapeutic Recreation

This course is designed to present a rationale and foundation for systematic program design, program implementation and program evaluation in various therapeutic recreation settings. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: STAT 145; RTH 329 or admission to graduate therapeutic recreation. Offered Fall, Spring.

RTH 462/562 Cr.3

Inclusive Recreation Program Administration

This course is designed to provide the student with information relating to recreation in inclusive settings. General administration concepts, management concepts, advocacy, legislation, and therapeutic recreation as a related service in the schools will receive special emphasis in this course. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: RTH 456/556. Offered Fall, Spring.

RTH 470/570 Cr.3

Facilitation Techniques in Therapeutic Recreation

This course presents an overview of concepts and interaction techniques used in the provision of goal-oriented therapeutic recreation services. Included are counseling techniques, leadership and instructional techniques appropriate for use in treatment, leisure education, and recreation participation. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: STAT 145; RTH 329 or admission to graduate therapeutic recreation; RTH 456/556 or concurrent enrollment. Offered Fall, Spring.

RTH 476/576 Cr.3

Assessment and Treatment Planning in Therapeutic Recreation

Overview of individual client assessments used in therapeutic recreation practice; development of individualized treatment/program plans in a therapeutic recreation context; review resources, standards and issues related to client assessment and program planning in therapy, leisure education and recreation participation programs. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: RTH 456/556, RTH 470/570. Offered Fall, Spring.

RTH 480/580 Cr.3

Leisure Education in Therapeutic Recreation

This course is designed to provide a philosophical understanding and overview of leisure education as well as to emphasize the approaches and strategies that can be utilized in enabling people to enhance the quality of their own lives in leisure. The focus will be leisure education as a major component of therapeutic recreation services. Topics included are leisure theory, leisure education conceptual models, leisure education programming techniques, facilitation of leisure education groups for various ages. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: RTH 456/556, RTH 470/570. Gerontology students should have completed one core gerontology course and have permission from the director of therapeutic recreation. Offered Fall.

RTH 491/591 Cr.2

Workshops in Therapeutic Recreation

Group study of varying therapeutic recreation topics. University professors as well as visiting lecturers will be invited to address the students and conduct specialized phases of the workshops. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit under different subtitles. No student may earn more than six credits in REC 591 or RTH 591. Offered Occasionally.

RTH 493/593 Cr.3

Therapeutic Recreation Trends and Issues

This course provides an examination of current issues, trends and professionalization concerns in therapeutic recreation, including professional organizations, ethics, current legislation, professional development, professional standards, credentialing, accreditation standards, improving organizational performance, and current professional controversies. Course should be taken last fall semester prior to internship. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: STAT 145 and RTH 456/556. Offered Fall, Spring.

RTH 700 Cr.1-6

Internship in Therapeutic Recreation

Application of therapeutic recreation leadership and administration methods/techniques through an on-the-job or laboratory experience. Study of a significant problem, development of professionally related competencies, and/or acquisition of job-related knowledge. Conducted on or off-campus under the direction of a faculty member. Repeatable for credit - maximum six. Prerequisite: therapeutic recreation graduate student, RTH 456/556, RTH 470/570, RTH 476/576, RTH 480/580, or equivalents and/or approval of graduate program director and internship coordinator. Offered Fall, Spring, Summer.

REC/RTH 701 Cr.3

Philosophical Foundations of Leisure, Play and Recreation

In-depth study of past and current theories of leisure, play and recreation; concepts of work and time; the influence of technology and societal changes and the role of recreation in modern day society. (Cross-listed with REC/RTH; may only earn credit in one department.) Offered Fall.

RTH 702 Cr.3

Foundations in Therapeutic Recreation

This course will provide a graduate level overview of therapeutic recreation including: historical and philosophical foundations of therapeutic recreation; disability education and medical language; and service learning applications. This course is specifically designed to help therapeutic recreation graduate students who do not have a therapeutic recreation undergraduate degree. Offered Occasionally.

REC/RTH 720 Cr.3

Research Methods for Recreation, Parks, and Leisure

The course introduces graduate students to research methods used in leisure research and recreation programs. Students learn to develop a research question, collect and analyze research literature, and conduct research using both quantitative and qualitative methods. The course is designed specifically to help students use methods relevant to the recreation field to take the initial steps for a graduate thesis or project. (Cross-listed with REC/RTH; may only earn credit in one department.) Offered Spring.

RTH 730 Cr.3

Advanced Clinical Aspects/Therapeutic Recreation

An investigation of the concepts and techniques utilized by the experienced and advanced Therapeutic Recreation Specialist including clinical issues, comprehensive program concerns, administrative functions and trends in the practice of therapeutic recreation service. Offered Fall.

RTH 740 Cr.3

Evidence-Based Practice in Therapeutic Recreation

This course provides both an overview of and builds expertise for incorporating evidence-based practice within therapeutic recreation to improve client outcomes, ensure consistency and communication among professionals, create protocols and criteria for client assessments, and increase recreation therapists' (RTs) research capacity. Students will develop an evidence-based recreational therapy curriculum with a community partner based on clinical outcomes. Offered Annually.

RTH 750 Cr.3

Authentic Leadership and Clinical Supervision in Therapeutic Recreation

This course is designed to prepare the graduate student with the skills and abilities to assume a management position in the health and human service industries or engage in private practice in therapeutic recreation. The class will explore the qualities of leadership and the components of authentic leadership. The student will develop an understanding of contemporary healthcare systems and human service agencies, the influence of licensing and regulatory bodies, and the necessity of funding sources. The class will apply this learning through implementation of the quality improvement process as it relates to therapeutic recreation management practices. Students will also be introduced to the core concepts of clinical supervision as they relate to student internships and professional supervision. Upon completion, students additionally discern the creation of work-life integration to promote sustainability in the field. Offered Annually.

RTH 790 Cr.1-3

Advanced Seminar - Therapeutic Recreation

Various current professional and theoretical topics will be presented in workshop format. Visiting scholars will supplement faculty presentations. Repeatable for credit - maximum six. Offered Occasionally.

RTH 795 Cr.1-3

Independent Study in Therapeutic Recreation

Individualized study of areas not available in existing courses. Repeatable for credit - maximum six. Consent of instructor. Consent of department. Offered Fall, Spring, Summer.

RTH 797 Cr.1-3

Special Projects in Therapeutic Recreation

Students pursue individualized study areas not available in existing courses or independent study. These projects will be completed under the supervision and direction of a faculty member within the department of recreation management and therapeutic recreation. Examples include: wheelchair sports/coaching, special recreation programs, Special Olympics, development of professional materials/programs, and other topics. Repeatable for credit - maximum six. Prerequisite: RTH 456/556; consent of instructor and student's advisor. Consent of instructor. Offered Fall, Spring, Summer.

Women's, Gender, and Sexuality Studies (WGS) - Graduate Courses

Courses

WGS 530 Cr.1-3

Topics: Women, Gender and Society

Interdisciplinary analysis of a social issue, idea, or institution from the perspective of women's, gender, and sexuality studies. Repeatable for credit - maximum nine. Offered Occasionally.

WGS 795 Cr.1-3

Directed Studies

Directed reading or research with the guidance of an instructor. Repeatable for credit - maximum six. Consent of student's regular advisor. Consent of instructor. Offered Fall, Winter, Spring, Summer.

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