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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, the College of Business Administration, and the School of Education are all involved in graduate education. 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 online 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 to explore the graduate studies webpage (https://www.uwlax.edu/gel/graduate-education/graduate-programs/) or visit us in person in 205 Morris Hall for more information.

Sincerely,
Meredith Thomsen
Dean, Graduate & Extended Learning

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)
- Civil rights (p. 5)
- Accommodation of religious beliefs (p. 5)
- Accessibility for individuals with disabilities (p. 6)

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 higher education institution by the U.S. News & World Report for Best Regional Universities in the Midwest. It has been ranked among the top Midwestern public institutions for more than two decades.

The student body of nearly 10,500 from 44 states and 25 countries is impressive. UWL’s retention rate is an outstanding 84% and the current six-year graduation rate is 73%, well above the national average.

UWL offers 102 undergraduate academic programs in 30 disciplines, 30 graduate programs, and 2 doctoral programs. A 19:1 student-faculty ratio means small classes, with an average of 29 students. 78% of full-time faculty hold doctoral or terminal degrees. Students learn directly from professors, including the recipient of the 2021 Board of Regents Teaching Excellence Award - a distinction given to just two instructors across the UW System.

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. 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 (https://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 section.

The university’s intercollegiate athletic teams, the Eagles, compete in 21 sports, predominately in the NCAA Division III, and as of March 31, 2022, 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 52,680, metro 139,627). 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 Explore La Crosse (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/), 145 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
Missions

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.

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 (AACSB)
- 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 (https://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 (https://www.uwlax.edu/finaid/resources/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 – Karolyn Bald
- Graduate & Extended Learning Dean – Meredith Thomsen

College of Business Administration
- Dean – Taggert Brooks
- Associate Dean – Gwen Achenreiner, Interim
College of Arts, Social Sciences, and Humanities
School of Visual and Performing Arts
- Dean – Karl Kunkel
- Associate Dean – Marie Moeller

College of Science and Health
- Dean – Ju Kim
- Associate Dean, Interim – Robert Allen
- Associate Dean, Interim - Whitney George

School of Education
- Dean – Marcie Wycoff-Horn
- Associate Dean – Pao Lor

Division of Student Affairs
- Vice Chancellor, Student Affairs – Vitaliano Figueroa
- Assistant Vice Chancellor, Admissions & Recruitment – Corey Sjoquist
- Dean of Students – Kara Ostlund

Division of Diversity & Inclusion
- Vice Chancellor, Diversity & Inclusion – Barbara Stewart, Interim
- Assistant Vice Chancellor, Diversity & Inclusion – Stacy Narcotta-Welp
- Director of Title IX and Compliance – Rachel Cromheecke, Interim
- Director of the Center for Informative Justice - Ashley Nowak

Division of Administration and Finance
- Vice Chancellor, Administration and Finance – Bob Hetzel
- Director, Budget Office – Emily Roraff
- Controller, Business Services – Mark Haakenson
- Director, Facilities Management – Scott Brown
- Director/Chief Human Resources Officer – Craig Bickley, Interim
- Associate Vice Chancellor-IT and Chief Information Officer – David Kim
- Director, Planning & Construction – Scott Schumacher
- Chief of Police – Allen Hill
- Director, Administrative Services – Robin Tuxen

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 2023:
- Karen Walsh, Madison, President
- Amy Blumenfeld Bogost, Madison, Vice President
- Angela Adams, Milwaukee
- Bob Atwell, Green Bay
- Evan Brenkus, Oneida
- Héctor Colón, Milwaukee
- Mike Jones, Milwaukee
- Jim Krueser, Kenosha
- Edmund Manydeeds III, Eau Claire
- John W. Miller, Milwaukee
- Cris Peterson, Grantsburg
- Joan Prince, Milwaukee
- Ashok Rai, Green Bay
- Jennifer Staton, Parkside
- Mark Tyler, Emerald Township
- Jill Underly, Madison
- Dana Wachs, Eau Claire
- Kyle M. Weatherly, Milwaukee

University of Wisconsin System administration
- Jay O. Rothman, President
- Jess Lathrop, Chief of Staff
- Johannes Britz, Senior Vice President, Academic and Student Affairs (Interim)
- David Brukardt, Vice President, University Relations
- Sean Nelson, Vice President, Finance and Administration

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 & Extended Learning

Graduate & Extended Learning
Dean: Meredith Thomesen (mthomsen@uw lax.edu)
205 Morris Hall
608.785.8245
gradstudies@uw lax.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: Adele Lozano (alozano@uw lax.edu)
345 Morris Hall
608.785.6489

Master of Science in Education (MSED)
Student Affairs Administration-Higher Education
Director: Becki Elkins (belkins@uw lax.edu (http://catalog.uwlax.edu/graduate/graduateprograms/belkins@uw lax.edu))
345 Morris Hall
608.785.6489

Master of Science in Education (MSED)
Education Specialist (EdS)
School Psychology, On-Campus
Director: Daniel Hyson (dhyson@uw lax.edu)
341N Graff Main Hall
608.785.8444

School Psychology, Online
Director: Robert Dixon (rdixon@uw lax.edu)
349A Graff Main Hall
608.785.6893

Master of Science (MS)
Cybersecurity
Director: Jennifer Butler Modaff (jbutlermodaff@uw lax.edu)
4219 Centennial Hall
608.785.6717

College of Business Administration

Digital Marketing
Director: Ken Graham (kgraham2@uw lax.edu)
3116 Wittich Hall
608.785.8097

School of 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@uw lax.edu)
160A Morris Hall
608.785.8136

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
Interim Director: Ann Yehle (ayehle@uw lax.edu)
266 Morris Hall
608.785.5087

Teaching English to Speakers of Other Languages (TESOL) Certificate
Director: Deanna Wiatt (dwiatt@uw lax.edu)
267 Morris Hall
608.785.6790

College of Science and Health

Doctor of Science and Health
Doctor of Physical Therapy (DPT)
Physical Therapy
Director: Patrick Grabowski (pgrabowski@uw lax.edu)
4066 Health Science Center
608.785.6623

Master of Public Health (MPH)
Community Health Education
Director: Anders Cedergren (acedergren@uw lax.edu)
418J Wimberly Hall
608.785.6790

Master of Science (MS)
Applied Statistics
Director: Melissa Bingham (mbingham@uw lax.edu)
1032 Cowley Hall
608.785.6682

Athletic Training
Director: Cordial Gillette (cgillette@uw lax.edu)
148 Mitchell Hall
608.785.8196

Biology
Biology - Aquatic Science
Biology - Cellular & Molecular
Biology - Environmental Science
Biology - Physiology
Director: Anita Davelos (adavelos@uw lax.edu)
4032 Cowley Hall
608.785.8239

Biology - Nurse Anesthesia
Director: Jessica Peterson (peterson,jessica7@mayo.edu)
Mayo Clinic Health System Franciscan Healthcare
Clinical Exercise Physiology
Director: Salvador J. Jaime (sjaime@uwlax.edu)
141 Mitchell Hall
608.785.6518

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

Exercise and Sport Science - Physical Education Teaching
Director: Jenna Starck (jstarck@uwlax.edu)
223A Cartwright Center
608.785.6535

Exercise and Sport Science - Physical Education Teaching: Adapted
Physical Education Emphasis
Program Coordinator: Brock McMullen (bcmcmullen@uwlax.edu)
158 Mitchell Hall
608.785.8167

Exercise and Sport Science - Physical Education Teaching: Adventure/
Outdoor Pursuits Emphasis
Program Coordinator: Jenna Starck (jstarck@uwlax.edu)
223A Cartwright Center
608.785.6535

Financial Technology (FinTech)
Director: Kenny Hunt (khunt@uwlax.edu)
225 Wing Technology Center
608.785.6822

Healthcare Administration
Director: Keely Rees (krees@uwlax.edu)
418N Wimberly 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
Microbiology - Clinical Microbiology
Director: Paul Schweiger (pschweiger@uwlax.edu)
3036 Cowley Hall
608.785.8254

Occupational Therapy
Director: Laura Schaffer (lschaffer@uwlax.edu)
4049 Health Science Center
608.785.8462

Physician Assistant Studies
Co-Director: Lisa Iverson-Leirno (liverson-leirno@uwlax.edu)
4051 Health Science Center
608.785.6621

Co-Director: Maggie Laufenberg (mlaufenberg@uwlax.edu)
4046 Health Science Center
608.785.6808
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. 12)
• Special non-degree graduate students (p. 12)
• Undergraduate enrollment in a graduate course policy (p. 12)
• 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/homepage/).

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. If a student enrolled in fewer than 10 undergraduate semester credits at an institution, they do not have to send an official transcript unless the courses completed are prerequisites for the graduate program. Study abroad transcripts are not required if a student attended an international university for one or fewer semesters. Additional transcripts may be required at the university’s or graduate program’s discretion. All graduate transcripts must be submitted.

UW-La Crosse accepts transcripts sent directly from the issuing institution(s) or through an electronic secure document sending service. Transcripts that are marked “issued to Student” or that are hand delivered by a student will not be accepted unless the transcript remains sealed in the original envelope from the issuing institution(s). Application fee 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@uwla.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 on required transcripts 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. Applicants who do not meet grade point average requirements may be considered for admission on probation (http://catalog.uwlax.edu/graduate/admissions/#admission-probation). 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 any 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. (on-campus) (p. 101), Ed.D. (p. 106), and DPT (p. 74) degree programs. The Ed.D. (p. 137) 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 any 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 programs, please visit the graduate education webpage (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. *
- Official IELTS score of at least 6.0. *
- Official PTE (Pearson Test of English) score of at least 60. *
- Official DET (Duolingo English Test) score of at least 110. *
- 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.

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/#tab-113814) 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/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 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 through the Admissions Office. 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 & Extended Learning - Graduate

Dean: Meredith Thomsen
205 Morris Hall
608.785.6500 or 866.895.9233
Email: gel@uw lax.edu

Extended Learning Director: Lynn Weiland
205 Morris Hall
608.785.6500 or 866.895.9233
Email: gel@uw lax.edu

www.uwlax.edu/gel (https://www.uwlax.edu/gel/)
www.uwlax.edu/graduate-studies (https://www.uwlax.edu/graduate-studies/)
www.uwlax.edu/ex (https://www.uwlax.edu/ex/)

Graduate & Extended Learning was formed by the merger of Graduate Studies and Extended Learning. We connect the university to the community by offering innovative educational opportunities. Our goal is to help our partners learn, grow, explore, and achieve more. Our work falls into five main categories, outlined below.

Graduate education
Graduate & Extended Learning supports the work of graduate students, faculty, and programs. We coordinate several tuition award programs, grants to support graduate student projects, and a number of graduate student awards and competitions. We host Hooding Ceremonies for programs that do not hold their own graduation events. Finally, we take lead role in enacting the action steps identified within the Graduate Education Strategic Plan.

Conference and event services
We have expertise in conference and event planning, both for in-person and online formats. We can help you navigate campus protocols and processes, or help you plan an event in another city. We also run registration and membership processes for events and organizations. Finally, we can arrange for the creation, tracking and awarding of Continuing Education Units (CEUs) for professional events, as appropriate.

Youth outreach programming
We partner with UWL faculty and other educators to offer high-quality enrichment classes for upper elementary, middle, and high school students in topics spanning the arts, humanities and the sciences. We bring youth to campus for a number of events which help them see a future for themselves in higher education. We offer test preparation courses for ACT, GRE, GMAT, and LSAT. Finally, we coordinate the UWL Concurrent Enrollment Program, allowing regional high school students to earn college credit for UWL courses taught within their own high schools.

Work with UWL departments and staff
We support UWL departments in offering online degree and certificate programs. Some are offered in collaboration with other campuses, through UW Extended Campus. Others are 100% developed by UWL personnel. We partner with UWL faculty and staff to develop credit and non-credit outreach programs, helping them connect to the community. Finally, we support UWL personnel in hosting events and conferences, assisting them in professional service to their academic disciplines.

Professional development
We offer an array of credit and non-credit learning opportunities, some of which are of interest to a general audience and some of which are developed in partnership with a regional employer. Strengths include the topics of health and wellness, environmental science, social justice, and education. Many of our conferences include Continuing Education Units (CEUs), documenting the value of these events as professional development opportunities.
Graduate Assistantships

- Graduate assistantship (GA) policy (p. 15)
- International students (p. 15)
- Graduate teacher assistantship (TA) policy (p. 15)

Graduate assistantship policy

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. The Financial Aid Office does not administer the graduate assistantship program.

Assistantships are available to resident and non-resident students. All students enrolled in on-campus graduate programs and 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 responsibilities per week during each semester of the academic year. Awards may be made for assistantships which require up to 20 hours of responsibilities per week during each semester of the academic year. The 50% workload may not be more than seven scheduled classroom contact hours/semester.

The 50% workload may not be more than seven scheduled classroom contact hours/semester.

Courses and laboratories taught by teaching assistants are counted in the academic workload measurements of the department.

Duties of a teaching assistant include independently teaching classes and/or facilitating course laboratories. Additionally:

- When appropriate, courses taught by TAs may be scheduled with the course offering for the course in which the TA listed as instructor of record.
- Courses and laboratories taught by teaching assistants are counted in the academic workload measurements of the department.

Graduate 2023-2024

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

1 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. 32) section of the catalog.

Teacher assistantship policy

Guidelines for teaching assistant positions

The title "teaching assistant" (TA) is appropriate for graduate students assigned teaching duties within an academic program under the direct supervision of a faculty member in that program. In general, the duties of a teaching assistantship are more demanding than those of a graduate assistantship, and teaching assistants demonstrate a higher level of knowledge and experience in their field than students serving as graduate assistants.2

Duties of a teaching assistant include independently teaching classes and/or facilitating course laboratories. Additionally:

1. TA appointments must be 50%.
2. The 50% workload may not be more than seven scheduled classroom contact hours/semester.
3. Courses and laboratories taught by teaching assistants are counted in the academic workload measurements of the department.
4. When appropriate, courses taught by TAs may be scheduled with the TA listed as instructor of record.
5. TAs must be compensated at a rate higher than GAs due to their increased workload and expectations.

Student eligibility

To be eligible for a teaching assistant position, a graduate student must:

1. Be a currently enrolled graduate student in good academic standing.
2. Be enrolled in at least five graduate credits, except for the student's last semester. During that last semester, the student need take only the credits needed for graduation. If no credits are needed, the student must register for GRC 799.3

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.1 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
3. Demonstrate evidence of continuous progress toward a degree prior to and during the assignment.

4. If a non-native English speaker, demonstrate proficiency in spoken English (as per UW System Administrative Policy 1255 (https://www.wisconsin.edu/uw-policies/uw-system-administrative-policies/teaching-assistants-selection-training-and-evaluation/)).

5. Meet any additional college or departmental requirements for a TA. Students should discuss those additional requirements with their program director.

Requests for exceptions to any of these policies should be directed to the dean of the student’s college.

Departmental obligations

Departments that utilize teaching assistants must have written policies specific to the department’s needs and expectations. These policies must be approved by the college and made available to graduate students.

1. A department with TAs must establish in writing minimum standards for selection, training and evaluation of teaching assistants that conform with UW System Administrative Policy 1255 (https://www.wisconsin.edu/uw-policies/uw-system-administrative-policies/teaching-assistants-selection-training-and-evaluation/).
   a. Standards must explain the selection process and the required training and/or experience that are to be conditions of employment. They should differentiate standards between GAs and TAs.
   b. Standards must also describe the department’s process for the training, supervision and evaluation of TAs each semester.

2. A department with TAs must have written policies explaining the specific duties of teaching assistants within the department, and what courses a teaching assistant is eligible to teach.

As defined in Wis. Stat. § 111.81 (19m), teaching assistant means a graduate student enrolled in the University of Wisconsin system who is regularly assigned teaching and related responsibilities, other than manual or clerical responsibilities, under the supervision of a member of the faculty as defined in s. 36.05(8).

Students need to be aware that the number of credits for a TA position are independent of requirements for financial aid and international student visas.
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. 17), Financial aid & scholarships (p. 17), and Veteran benefits (p. 18) 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 cost to attend website (https://www.uwlax.edu/cost/#tab-100207). Questions about the tuition and fees listed should be directed to the Cashier’s Office (https://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. 17)
- Credit load required for financial aid (p. 17)
- Application procedures (p. 17)
- Notification dates (p. 18)
- Financial aid programs (p. 18)

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 & Engagement.

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. 35) 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.gov/apply-for-aid/fafsa/) (FAFSA) to the Federal Central Processing System. Applications are available after October 1 each year. File the FAFSA by February for priority consideration although applications are accepted throughout the academic year.
Further resources

• For more information about graduate assistantships, contact (p. 9) the Dean of Graduate & Extended Learning or the graduate program director.

Veteran Benefits - Graduate

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 Veteran Educational Benefits Office (https://www.uwlax.edu/veteran-services/) in 223 Graff Main Hall, before or during registration. After this initial contact, registered students should keep the Veteran Educational Benefits Office apprised of their status and needs each semester.

Students must submit a Certificate of Eligibility for federal education benefits to the Veteran Educational Benefits Office and complete a certification request form (http://www.uwlax.edu/Veteran-Services/Certification-request/) (cert request) before the Veteran Service Coordinator certifies the student’s credits to the federal Veterans Administration. The university certifies the credit load to the Veterans Administration (VA) 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 Coordinators (https://www.uwlax.edu/veteran-services/our-people/) for summer term rules.

Table to determine % of benefits

<table>
<thead>
<tr>
<th>Graduate credits</th>
<th>Enrollment/benefits status</th>
</tr>
</thead>
<tbody>
<tr>
<td>9+</td>
<td>Full-time</td>
</tr>
<tr>
<td>7-8</td>
<td>3/4 time</td>
</tr>
<tr>
<td>5-6</td>
<td>1/2 time</td>
</tr>
<tr>
<td>1</td>
<td>1/4 time</td>
</tr>
</tbody>
</table>

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/).

Veterans Choice Act Section 702 & 301 and the Colonel John M. McHugh Fairness for Survivors Act of 2021

Section 702 of the Veterans Access, Choice and Accountability Act of 2014 (Choice Act), requires the VA to disapprove programs of education for payment of benefits under the Post-9/11 GI Bill® or Montgomery GI Bill®-Active Duty at public institutions of higher learning (IHLs) if the school charges qualifying veterans and dependents tuition and fees in excess of the rate for resident students for terms beginning after July 1, 2015. Section 301 modified the Choice Act to include Vocational Rehabilitation & Employment (VR&E) for “covered individuals” beginning after March 31, 2019. Beginning August 1, 2022: The Colonel John M. McHugh Tuition Fairness for Survivors Act of 2021 (Public Law 117-68) amended Section 702 to include Chapter 35 beneficiaries.

To remain approved for the VA’s GI Bill programs, schools must charge in-state tuition and fee for covered individuals. A “covered individual” is defined in the Choice Act as:

• A veteran using who lives in the state in which the IHL is located (regardless of their formal state of residence), is using Post 9/11 GI Bill® (Chapter 33), Montgomery GI Bill®-Active Duty benefits
(Chapter 30), Veterans Readiness & Employment (Chapter 31), or Dependents Education Assistance (Chapter 35) and enrolls in the school.

- A spouse or child using transferred Post 9/11 GI Bill® or Dependents Education Assistance (Chapter 35) benefits who lives in the state in which the IHL is located (regardless of their formal state of residence) and enrolls in the school.
- A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship who lives in the state in which the IHL is located (regardless of their formal state of residence) and enrolls in the school.
- A spouse or child using transferred Post 9/11 GI Bill® benefits who lives in the state in which the IHL is located (regardless of their formal state of residence) and the transferor is a member of the uniformed service who is serving on active duty.

To qualify as a covered individual, students must complete the following:

- Submit a Certificate of Eligibility for Post 9/11 (Chapter 33), MGIB (Chapter 30), or DEA (Chapter 35) or an authorization for VR&E (Chapter 31)
- Complete a cert request that allows certification to the VA to use benefits during that semester or term
- Enter a Wisconsin address in WINGS

When federal payment by VR&E or Post 9/11 GI Bill is delayed

Individuals who are entitled to veteran educational assistance under Chapter 31 (Veteran Readiness and Employment) or Chapter 33 (Post 9/11 GI Bill®) shall submit a certificate of eligibility (COE) and submit a written request (cert request) to use the entitlement not later than the first day of the course of education.

While payment from the VA is pending, UWL will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or to UWL facilities, or the requirement that a student borrow additional funds because of the student’s inability to meet their financial obligations to the institution due to the delayed disbursement of a payment to be provided by a federal payment (VA).

UWL may require the amount of tuition and fees owed above the expected federal educational assistance to be paid according to the UWL payment due dates.
Murphy Library

Murphy Library Director: John Jax
110 Murphy Library; 608.785.8805
Email: jjax@uwla.edu

Administrative Supervisor: Sean Hurtubise
111 Murphy Library, 608.785.8520
Email: shurtubise@uwla.edu

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

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

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
Murphy Library services are guided by the ALA Library Bill of Rights (http://www.ala.org/advocacy/intfreedom/librarybill/).

To fulfill the Library’s mission, the Library Director, Library Department and Library Staff uphold the principles of the ALA Code of Ethics (http://www.ala.org/tools/ethics/), augmented by 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/e-books, streaming video, and other multimedia
  • University archives
    • La Crosse history
    • Rare books
  • Digital collections
  • Alice Hagar Curriculum Center
  • Government collections and depository (Federal and State)
  • Guides and reference materials

• Services
  • Interlibrary loan
  • UW System resource sharing
  • Course materials on reserve
  • Consulting a librarian (by appointment, walk-up, phone, email, and chat)
    • Research help/guidance
    • Use of technology
    • Borrowing materials
    • Reserving materials and room(s)
  • Tutorials and videos on using the library and finding scholarly resources
• Tours
• Purchase recommendations
• Group study rooms
• Technology
  • PC and Mac computers
  • B/W and color printing
  • Scanning stations
  • Laptops for check-out
  • Moveable large screen monitors
  • Moveable whiteboards
  • Whiteboard tables
  • Scientific calculators
  • Adaptive technology like keyboard and mouse
• Fax
Student Resources

A wide variety of graduate student resources can be found on the graduate education webpage (https://www.uwlax.edu/gel/graduate-education/) or by contacting gradstudies@uwlax.edu or 608.785.8124.
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.

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- Graduate probation and retention standards (p. 23)
- Readmission to a program after dismissal (p. 24)
- Appeals process for graduate students not re-admitted by graduate programs (p. 24)
- The Graduate Council (p. 24)

Academic records/FERPA

- Access to academic records (p. 25)
- Name and address changes (p. 25)
- Federal Educational Rights and Privacy Act (FERPA) (p. 25)

Course information

- Graduate course grade and course repeat policies (p. 26)
- Cross-listed courses (p. 26)
- Course numbering (p. 26)
- Course prerequisites (p. 26)
- Course modes of instruction (p. 26)
- Curriculum requirements (p. 27)
- Graduate Curriculum Committee (p. 27)

Credit for prior learning policy

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Grading system and policies

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- Registration process (p. 31)
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- Class drops after the change of schedule period: see the individual class withdrawal policy (p. 35) in the university's withdrawal policies.
- Student credit load (p. 32)
- Student credit load - international graduate students (p. 32)
- Class attendance (p. 32)
- Audit policy (p. 33)
- Undergraduate enrollment in graduate courses (p. 33)
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- Seven year completion (p. 34)

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- Student disciplinary procedures (p. 34)
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Withdrawal

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Academic Eligibility - Graduate

- Graduate probation and retention standards policy (p. 23)
- Readmission to a program after dismissal policy (p. 24)
- Appeals process for graduate students not re-admitted by graduate programs policy (p. 24)
- The Graduate Council (p. 24)

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 credits 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 & Extended Learning.

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).

Readmission to a program after dismissal

A student who has been dismissed from their graduate program may request readmission. The student should consult with their program director and/or the Office of Graduate & Extended Learning for advice and help with how to proceed.

The student’s request for readmission must be stated in a formal letter addressed to the program director, outlining the rationale for the request and plans for improved performance. The student should follow any guidance regarding the request that is provided by the program. The program will follow their own process to decide whether to readmit the student.

If the student’s program finds compelling evidence to warrant the student’s readmission, the program director will inform the college office. The academic services director will formalize the readmission, informing the student, the graduate program, the Office of Records and Registration, and the Office of Graduate & Extended Learning. Readmission may result in a student being placed on probation.

If the program is unwilling to support readmission, the student may consult the college office and/or the Office of Graduate & Extended Learning 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 their 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 & Extended Learning 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. In partnership with programs, departments, schools, and colleges, regularly establishing, monitoring, and revising academic policies pertaining to graduate education, including policies for graduate student admission, honors recognition, retention, probation, dismissal, and readmission, and reviewing those policies at least every five years.

2. In partnership with the Dean of Graduate and Extended Learning, sharing responsibility for graduate education strategic planning to ensure:
FERPA

Notice of rights of access to student records and definition of directory information under the U.S. Family Educational Rights and Privacy Act of 1974, as amended.

UWL informs students of the Family Educational Rights and Privacy Act of 1974 as amended (FERPA) in all catalogs and online semester timetables. This Act, with which the university intends to comply fully, was designed to protect the privacy of education records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students have the right to file complaints with the FERPA Compliance Office concerning alleged failures by the university to comply with the Act.

"Education records" are any record maintained by the university which is directly related to the student, such as individually identifiable transcript information. In compliance with the provisions of the Act, UW-La Crosse discloses information from a student’s education record only with the written consent of the student or under one of the few exceptions allowed by law.

The university has posted its full FERPA policy (http://www.uwlax.edu/Records/FERPA/) online. The Office of Records and Registration maintains a directory of records, which lists all education records maintained on UWL students by office.

Directory information

Some information in a student’s education record is designated by the university as public or “directory information.” Such information may be disclosed by the institution for any purpose, at its discretion, unless the student has restricted disclosure.

- Name(s)
- Local and home addresses
- Local and home telephone numbers
- UWL email address
- School/college
- Enrollment status
- Enrollment dates
- Academic level (first year, sophomore, junior, senior)
- Previous institution(s) attended
- Past and present participation in officially recognized sports and activities
- Physical factors (height, weight for athletes)
- Program(s) of study
- Awards and honors (such as Dean’s List)
- Expected graduation date
- Degree(s) and credential(s) earned and date(s) awarded

In addition to student data elements, UWL has designated photographs and video that are taken of students on campus and at university-sponsored activities as information that may appear in university publications, brochures, websites, social media, etc., without the written consent of students.

Our class sessions may be audio-visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded.
Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded.

**Restricting disclosure of directory information**

Currently enrolled students may restrict disclosure of directory information under FERPA. To restrict disclosure, students may log into their WINGS student center personal settings prior to the end of the second week of each semester or the end of the first week of a summer term. The university assumes that failure on the part of any student to restrict their directory information, within the time period mentioned above, indicates individual approval for disclosure.

If the student chooses to restrict their directory information, there are some considerations:

- Student name/address is excluded from the UWL online directory.
- Verification of enrollment, graduation, or degrees awarded will not be provided to third parties, including potential employers and insurance companies.
- Student name will not appear in the commencement program.
- Dean's List notifications will not be sent to local newspapers.

For more information, review the university's policy and implementation of the Family Education Rights and Privacy Act (http://www.uwlax.edu/Records/FERPA) or visit the Office of Records and Registration.

**Course Information - Graduate**

- Graduate course grade and course repeat policies (p. 26)
- Cross-listed courses policy (p. 26)
- Course numbering policy (p. 26)
- Course prerequisites (p. 26)
- Course modes of instruction (p. 26)
- Curriculum requirements (p. 27)
- Graduate Curriculum Committee (p. 27)

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.

**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.

**Repeatable for credit graduate courses**

A course marked "repeatable for credit" may be repeated for credit only once unless otherwise specified. See the graduate course repeat policy (p. 26) for information on repeating a course to improve one's grade.

**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**

Many 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. Students may not earn credit in a slash course at both the undergraduate and graduate levels. 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.

**Course modes of instruction**

1. **Face-to-Face (F2F) or In-Person or On Campus:** Course in which content delivery, course activities, and assessments take place in a physical classroom.
2. **Hybrid:** Course in which content delivery, course activities, and assessments take place in a physical classroom and online. This combination of online and in-person elements is based on meaningful learning strategies that best serve an instructor's pedagogical goals and objectives. This classification signals to students that there is an expectation of both physical presence and online learning in the instructor's design of the course. While a percentage is not mandated, hybrid courses are traditionally 30% to 50% of seat time replaced with online components. Hybrid courses include a class note available to students at registration, which indicates anticipated in-person and online class time.
3. **Online courses** (fully) - students do not meet in person at a physical site. All content and course activities take place online.
   a. **Synchronous** - some or all of the elements of the class occur in real time. Elements can be required (e.g., a lecture or exam) or optional (e.g., office hours or discussion times). The course
should be listed as online in the timetable and a meeting date/time should be noted.

b. Asynchronous - although there are deadlines for students by which they need to complete work, there are no requirements for a specific date/time when the student must be available.

4. Independent Study - individual reading or research under the guidance of a faculty member.

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. 38) section in the catalog. Additional university requirements for a graduate degree are included in the university's graduate degree requirements policy (p. 37).

Graduate Curriculum Committee

The Graduate Curriculum Committee (GCC) is the curriculum review faculty body for all academic programs at the graduate level. Membership of this committee consists of nine graduate faculty, four graduate students, and one representative from or affiliated with the School of Education. The Provost/Vice Chancellor, Registrar, Dean of Graduate & Extended Learning, Director of the Library, and academic deans, or their designees, serve as administrative consultants. The committee shall elect its chairperson and recorder. The chairperson will also serve as a voting member of the Graduate Council.

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/).

Credit for Prior Learning Policy - Graduate

UWL appreciates and values students' learning experiences outside of the confines of UWL's sponsored credit instruction. Students may be awarded credit for their previous graduate-level learning in a variety of ways including but not limited to transfer coursework, military training, industry-certified and assessed credentials or licensures, and UWL-administered prior learning assessments. These methods of gaining credit for prior learning (CPL) foster educational attainment and can shorten time to degree or credential completion. Students should work with their graduate program director to identify possible pathways to gaining credit for their graduate-level knowledge.

Credit by transfer

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 or nationally accredited at the graduate level for a domestic institution, or internationally recognized for an international institution.
3. The course must be acceptable for graduate credit toward a graduate degree or certificate at the offering institution and must be appropriate to a degree or certificate at UWL.
4. The course must appear as a graduate course on the student's graduate transcript from the offering institution. All transfer credit processed from quarter-hour institutions will be converted to semester credits at UWL. Similarly, course work measured in units will be converted to semester credits. This will ensure students will receive the equivalent number of credits. To make the quarter-hour to semester-hour conversion, UWL multiplies quarter credits by 0.666. For example, if an student has 40 quarter credits (40 x 0.666 = 26.64), the student will receive 27 semester credits.
5. Credit for prior learning that has been internally reviewed, assessed and transcribed as a course equivalent by any University of Wisconsin institution will be considered for transfer credit by UWL. All other credit for prior learning awarded credits by non-UW institutions may need additional explanation or evaluation by UWL subject matter experts and may require additional fees.

Any graduate credit transfer must be approved by the graduate program director. As described above, the number of credits awarded across all forms of Credit for Prior Learning may be up to 1/3 of the total credits in the graduate program that the student will be pursuing at UWL. Students may request to transfer up to three additional credits under extraordinary circumstances. The additional three credits must be approved first by the graduate program director and then by the Graduate Council. Graduate programs with articulation agreements with other institutions (https://www.uwlax.edu/academic-affairs/resources/articulation-agreements/) may accept a greater proportion of graduate credits in transfer.

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 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.

Graduate program directors should communicate their approval of any transfer credits for incoming students to Admissions. If previously-completed credits are approved for transfer after a student has been admitted, the graduate program director should inform the academic services director for their college. Graduate students currently enrolled at UWL must secure approval from their graduate program director in advance of enrollment at another institution for such course work to transfer back to UWL.

UWL requires transcripts be sent directly from the issuing institution(s). UWL 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 applicants should submit transcripts to UWL Admissions. Current graduate students wishing to transfer in credits completed while enrolled at UWL should request those transcripts be sent to Records & Registration.

Requests for an exception to these policies should be directed to Graduate & Extended Learning.

Credit for military training and service

Graduate students at UWL may earn graduate-level credit for completion of advanced individual military training, or for military service school credits, following the recommendations of the American Council on Education. Credit for vocational/technical training or in a military occupational specialty will not be accepted. The Joint Services Transcript (JST) is the basic document used to evaluate graduate transfer credits. To request a copy of their transcript, students should visit the Joint Services Transcript (https://jst.doded.mil/official.html)
site. Air Force enlisted personnel will receive their official professional military education transcript from the Community College of the Air Force (CCAF) (https://www.airuniversity.af.edu/Barnes/CCAF/).

Credit for military training and service is guided by WI Act 59 and WI Act 147. Students are strongly encouraged to consult with their graduate program director and the UWL Veteran Services Office before making determinations regarding prior military credit. Students who are given credits that may not pertain directly to their program could be disadvantaged for financial aid purposes or other professional groups or designations.

Credit for professional/industry learning

In some disciplines, industry-certified programs, assessments, or licenses may allow for credits awarded toward a student’s specific graduate degree requirements. These industry certified credentials must be verifiable and are up to individual UWL departments to determine validity and applicability to a student’s program of study. Additional documentation or assessments may be required to validate learning and will be determined on a case-by-case basis. Students should contact their graduate program director if they feel they have a certification which may apply toward their program of study in this way.

Credit by institutional prior learning assessment

UWL graduate programs may develop assessment tools to evaluate student learning specific to those programs. Assessments may include written challenge exams, skills demonstration exams, portfolio presentations or a combination of these. A small non-refundable fee will be charged for each assessment and is payable to the Cashiers Office. The fee must be paid prior to attempting the assessment and will go to the department offering the assessment.

Additional limitations and exceptions

Credit for prior learning can only be awarded if the student has not enrolled in (beyond date of record) or completed the course already at UWL.

The number of credits awarded for all forms of credit for prior learning, in total, may be up to 1/3 of the total credits in the program that the student will be pursuing at UWL, plus a potential additional 3 credits of transfer credit (see below). This maximum may vary in the case of special consortia or collaborative degree programs recognized by the Graduate Council. Students pursuing a post-master’s degree (e.g., Ed.S., Ed.D., or DPT), may be awarded no more than 15 credits worth of credit for prior learning from any source.

All credits awarded for prior learning must have been earned within the timeframe indicated by the graduate seven year completion policy (http://catalog.uwlax.edu/graduate/academicpolicies/timelimitdegreecompletion/).

Students with questions about this policy or who wish to request an exception should contact Graduate & Extended Learning.

Transcription of credit for prior learning

Upon admission to UWL, awarded credits will be posted to the term that corresponds with the admitted term or when the transfer course was completed. If a student is awarded credit after admission to UWL, the credits earned will be transcribed to the term the assessment was evaluated.

Transfer courses are listed under the heading “Transfer Credits” on the student’s transcript along with the grades earned. All other credit awarded through credit for prior learning processes are listed under the heading “Other Credits.”

If a student attempts a credit by institutional prior learning assessment and is unsuccessful, no record of the attempt will be noted on the student’s UWL transcript. Course credit earned via credit for prior learning does not carry grade points and does not factor into the UWL resident grade point average, although some programs utilize transfer grades when determining GPA for admission purposes. Credits for prior learning may be used for Satisfactory Academic Progress calculations by Financial Aid. Course credit earned via credit for prior learning does not factor into UWL enrollment status.

Grading System and Policies - Graduate

- University grading system (p. 28)
- Pass/fail policy (p. 29)
- Final exams policy (p. 29)
- Incomplete (I) grade policy (p. 30)
- In progress (PR) grade policy (p. 30)
- Change of final grade policy (p. 30)
- Appeal of final grade policy (p. 30)
- Report of final grades policy (p. 30)

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:

<table>
<thead>
<tr>
<th>Letter</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00 grade points/credit</td>
</tr>
<tr>
<td>AB</td>
<td>3.50 grade points/credit</td>
</tr>
<tr>
<td>B</td>
<td>3.00 grade points/credit</td>
</tr>
<tr>
<td>BC</td>
<td>2.50 grade points/credit</td>
</tr>
<tr>
<td>C</td>
<td>2.00 grade points/credit</td>
</tr>
<tr>
<td>D</td>
<td>1.00 grade points/credit</td>
</tr>
<tr>
<td>F</td>
<td>0.00 counted as credits attempted</td>
</tr>
</tbody>
</table>

Additional university grades and grade points used but not part of the grading scale:
<table>
<thead>
<tr>
<th>Letter</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>incomplete / 0 (not counted as credits attempted)</td>
</tr>
<tr>
<td>IP</td>
<td>in progress / 0 (not counted as credits attempted)</td>
</tr>
<tr>
<td>W, WP</td>
<td>withdraw passing / 0 (not counted as credits attempted)</td>
</tr>
<tr>
<td>WF</td>
<td>withdraw failing / 0 (counted as credits attempted, averaged into GPA)</td>
</tr>
<tr>
<td>EP</td>
<td>emergency withdrawal / passing / 0 (not counted as credits attempted)</td>
</tr>
<tr>
<td>EF</td>
<td>emergency withdrawal / failing / 0 (not counted as credits attempted)</td>
</tr>
<tr>
<td>AS</td>
<td>audit satisfactory / 0 (not counted as credits attempted)</td>
</tr>
<tr>
<td>AU</td>
<td>audit unsatisfactory / 0 (not counted as credits attempted)</td>
</tr>
<tr>
<td>S²</td>
<td>satisfactory / 0 (counted as credits attempted)</td>
</tr>
<tr>
<td>U</td>
<td>unsatisfactory / 0 (not counted as credits attempted)</td>
</tr>
<tr>
<td>P²</td>
<td>pass / 0 (counted as credits earned)</td>
</tr>
<tr>
<td>F</td>
<td>fail / 0 (counted as credits attempted; averaged into GPA)</td>
</tr>
<tr>
<td>F01 - F14</td>
<td>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.</td>
</tr>
<tr>
<td>NR</td>
<td>no report / 0 (not averaged into GPA; the &quot;NR&quot; grade is posted for all missing grades)</td>
</tr>
<tr>
<td>PR³</td>
<td>in progress for dissertation, thesis, seminar paper, culminating projects / 0 (not counted as credits attempted)</td>
</tr>
</tbody>
</table>

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.

For undergraduates, the highest grade earned in repetition will be calculated in the GPA. For graduates, the most recent grade earned will be accepted in the GPA. See the undergraduate (http://catalog.uwlax.edu/undergraduate/academicpolicies/courseinformation/#course-repeat-policy) and graduate (http://catalog.uwlax.edu/graduate/academicpolicies/courseinformation/#repeat-policy) course repeat policies for more information.

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

• Graduate level graduation fee (p. 30)
• Submitting an intent to graduate (p. 30)
• Graduate commencement participation (p. 30)
• Graduate level honors (p. 31)
• Mailing diplomas (p. 31)

Graduate level graduation fee

Current graduation fees (https://www.uwlax.edu/cost/#tab-100207) 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.

Submitting an intent to graduate

All students must notify their college dean’s office of when they plan to graduate by submitting an intent. Graduate students must submit their intent to graduate 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 submit their intent to graduate (https://www.uwlax.edu/wings/) through their WINGS Student Center and select “Apply for Graduation.” 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 submit their intent.

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
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.

Registration and Schedules - Graduate

- Academic advising (p. 31)
- Registration process (p. 31)
- Schedule changes (p. 31) (drop/add/change of schedule policy)
- Class drops at an instructor’s discretion policy (p. 31)
- Class drops after the change of schedule period: see the individual class withdrawal policy (p. 35) in the university’s withdrawal policies.
- Graduate student credit load policy (p. 32)
- Graduate student credit load - international students (p. 32)
- Class attendance (p. 32)
- Audit policy (p. 33)
- Undergraduate enrollment in graduate courses policy (p. 33)
- Graduate research, comprehensive exams, and terminal project completion policy (p. 33)
- Graduate thesis and dissertation committee policy (p. 34)

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/). Registration for the winter and spring terms begins in November; summer registration begins a week before fall registration in late March. A student’s enrollment date and time is located on their 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 Schedule of Classes (http://www.uwlax.edu/Records/registration/) and WINGS Class Search have the published schedule for the upcoming terms. Directions on how to register in WINGS can be found on the WINGS Help site (https://www.uwlax.edu/wings/). The registration system will not permit a student to enroll in a class for which a prerequisite is not in progress at UWL or 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. Course-related policies that affect registration, including the course repeat policy and the different modes of instruction, can be found in the course information section of the undergraduate (http://catalog.uwlax.edu/undergraduate/academicpolicies/courseinformation/) and graduate (p. 26) catalogs.

Continuing students must not have any holds that block registration, including financial holds, on their account 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." Requests must be approved by the student's graduate program director prior to enrollment (standard university overload approval process applies).

**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 policy**

Because class participation is an integral component of the development of a successful learning community, all students are expected to attend all class sessions of courses in which they are enrolled. While attendance is expected, it is recognized that absences are at times unavoidable. If an absence is necessary, a student should take responsibility for contacting their instructor(s) as soon as possible to discuss the ramifications of being away from class.

It is important for the student to realize that when classes are missed they may be at a disadvantage as it is often not feasible for the instructor to reconstruct activities that took place in the classroom, laboratory, or field during the absence. Additionally, missing any classes may result in lower grades because the student may miss foundational material needed to succeed in the class. Even under the best of circumstances, extended absences can be problematic, with the real possibility that the student may not be able to complete the course successfully. Students with a documented disability requesting an accommodation related to attendance must request accommodation through the ACCESS Center.

**Authorized absences and how they differ from other absences**

Absences that fall under one of the following categories are considered authorized:

1. participation in an approved field trip listed in the catalog as a requirement for a course in which the student is enrolled; or
2. participation in an authorized extra-curricular activity such as a university athletic event or artistic performance; or
3. active military service (http://catalog.uwlax.edu/undergraduate/academicpolicies/withdrawal/#short-term); or
4. accommodation of students' religious beliefs (http://catalog.uwlax.edu/undergraduate/aboutuwlax/#religious-beliefs); or
5. bereavement (such as the death of a close family member); or
6. illness, injury, or emergency of such severity as to prevent the student from being able to attend class.

A student should communicate directly with the instructor when an absence falls under one of the approved six categories. Instructors have discretion regarding requests for absences that do not fall under one of the approved six categories.

**Course policies and communication**

Both students and their instructors have responsibilities related to course policies and communication of absences.

**Course policies regarding absences**

Instructors may initiate their own policy regarding attendance. If an instructor teaches more than one section of a course, the same policy should be used for all sections. Attendance policies should be clearly articulated in a course syllabus. Instructors are expected to announce their attendance policy to each class, but it is the responsibility of the student to know the policies of the instructor contained in the syllabus. Instructors may choose to request HIPPAA-compliant documentation for authorized absences. Instructors may not require documentation that describes the nature of the student’s medical condition. Requests for documentation should be restricted to information that can be readily obtained, is not unacceptably intrusive, and is culturally appropriate.

**Communication regarding absences**

Notifying instructors and arranging make-up work in cases involving authorized absences of students from class are the responsibility of the student. A student who is absent is responsible for notifying the instructor as soon as possible and may not be penalized for authorized absences if appropriate HIPPAA-compliant documentation is provided in a timely fashion to the instructor to verify the reason for the absence. Students may not be required to provide documentation describing the nature of the student's medical condition.

In serious situations where the student is incapacitated and temporarily unable to perform the aforementioned responsibilities, family members may contact the Student Life Office for assistance with these matters. The Student Life Office will then provide notification (not verification) of the absence to the instructors. Arrangements for make-up work, make-up exams, or possible assignment adjustments are the responsibility of
the student. Students should read their syllabi carefully and direct any attendance-related questions to the instructor of that course.

In the case of severe illness, injury, or emergency, instructors should be kept apprised of the student's absence timeline through direct communication with the student and/or via the Student Life Office, which will assist students and communicate with instructors as needed.

When absences are authorized, instructors are obligated to work with students to determine the best way for students to resume participation in the class without a direct penalty. The instructor is responsible for providing reasonable accommodation or opportunities to make up course obligations that have an impact on the course grade. It is expected that reasonable requests to make up exams and assignments will be accommodated. However, if the absences are lengthy, the student, instructor, and the Student Life Office should work together to determine if it will be possible for the student to successfully complete the course.

In all cases of absence, authorized or otherwise, the student is responsible for completing missed work. The instructor is not required to do extra teaching.

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 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 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.

1. Students who require only one term after their regular coursework to complete their thesis or culminating project need to register for only 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 799 each term, excluding winter.
4. Students must register for GRC 799 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.uwlnx.edu/graduate-studies/current-graduate-students/
thesis-and-dissertation/) can be found on the Graduate & Extended
Learning website.

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. 30) 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. 30) in order to have the degree awarded.

Requests for an exception to this policy should be directed to Graduate
& Extended Learning.

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 has also adopted Chapter UWS 17, last revised in 2009, which
covers non-academic misconduct. In it, they state, "The missions of the
University of Wisconsin System and its individual institutions can be
realized only if the university’s teaching, learning, research and service
activities occur in living and learning environments that are safe and
free from violence, harassment, fraud, theft, disruption and intimidation.
In promoting such environments, the university has a responsibility
to address student nonacademic misconduct; this responsibility
is separate from and independent of any civil or criminal action
resulting from a student’s conduct. This chapter defines nonacademic
misconduct, provides university procedures for effectively addressing
misconduct, and offers educational responses to misconduct. The
University of Wisconsin System is committed to respecting students’
constitutional rights. Nothing in this chapter is intended to restrict
students’ constitutional rights, including rights of freedom of speech or
to peaceably assemble with others."

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. 35)
• Withdrawal from UWL policy (p. 35)
• Medical withdrawal policy (p. 35)
• Military duty withdrawal from UWL policy (p. 36)
Individual class withdrawal policy

Any student may withdraw from a class until two weeks beyond mid-term of a full semester class. All withdrawals from classes after the term’s 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 to withdraw after the drop/add/change of schedule period has ended. No student is permitted to withdraw from a class later than two weeks 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 falling 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.

Contact the Student Life Office (https://www.uwlax.edu/student-life/our-services/student-support/withdrawal) (608.785.8062; studentlife@uwlax.edu; 149 Graff Main Hall) to schedule an appointment and initiate a withdrawal. The Student Life Office provides 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 falls after the drop/add/change of schedule period and prior to two weeks after mid-term of a given semester. A grade of “WP” or “WF” will appear if the withdrawal date falls more than two weeks after mid-term. A grade of “W” 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. 35) 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

A medical withdrawal is granted in instances where a student is faced with a serious or unexpected condition that completely precludes the student from being able to function as a student and in which the regular university withdrawal process is not appropriate.

A request may be granted to students who experience a serious or unexpected physical or behavioral health condition; who may need to provide care to an immediate family member who is experiencing a serious or unexpected physical or behavioral health condition; or who have experienced the death of an immediate family member. In the case of pre-existing, recurring, or chronic health conditions, documentation must show that the recurrence or worsening of the condition(s) began after initiation of the term for which the withdrawal is requested. Approval will be granted on a case-by-case basis.

Whenever possible, requests for medical withdrawal should begin in the Student Life Office and occur during the term in which the medical condition arose. Students may apply for a retroactive medical withdrawal up to one year after the end of the term in question. 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. In the case of death of an immediate family member, an obituary or other official record of death may be requested as documentation. When appropriate, Student Life will consult with the Student Health Center, the appropriate academic dean, the Dean of Graduate Studies and Extended Learning, 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. The last date of class attendance shall be considered the official withdrawal date to be used by the Records and Registration Office for recording academic record class drops and term withdrawals. 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) or Graduate Council (http://
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 and procedures 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).

Short term military absence policy

Military students and their immediate family members who are enrolled as students shall not be penalized for class absence due to unavoidable or legitimate required military obligations, or medical appointments at a VA facility, not to exceed 10% of instruction hours. Special permission may be granted by the instructor to exceed 10%. Students are responsible for notifying faculty members of such circumstances as far in advance as possible and for providing documentation (military orders or VA appointment letter) to the Veteran Educational Benefit Office to verify the reason for the absence. The faculty member is expected to provide reasonable accommodations or opportunities to make up exams or other course assignments that have an impact on the course grade. Students are not relieved from completing assignments or group work. For longer term absences that will exceed the 10% of instruction hours, students should be referred to the Military Withdrawal from the University Policy (https://www.uwlax.edu/records/student-resources/veteran-students/#tm-military-duty-withdrawal-policy).

More information and procedures can be found in the university’s full Short Term Military Absence Policy (https://www.uwlax.edu/records/student-resources/veteran-students/#tm-short-term-military-absence-policy).
Graduate Degree Requirements and 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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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.)

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.
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. 27) will be used to determine credit to be awarded for previous course work from another institution.
Graduate Degrees and Program Requirements

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

Biology (BIO)
- Biology Graduate Program (p. 40)
  - Biology - MS (p. 41)
  - Biology - MS: Aquatic Science Concentration (p. 41)
  - Biology - MS: Cellular and Molecular Biology Concentration (p. 43)
  - Biology - MS: Environmental Science Concentration (p. 44)
  - Biology - MS: Nurse Anesthesia Concentration (p. 45)
  - Biology - MS: Physiology Concentration (p. 46)

Computer Science (CS)
- Financial Technology Graduate Program (p. 48)
  - Emerging Technologies in FinTech Certificate (p. 48)
  - Leading FinTech Transformation Certificate (p. 48)
- Software Engineering Graduate Program - MSE (p. 49)

Communication Studies (CST)
- Cybersecurity Graduate Program - MS (p. 52)

Exercise and Sport Science (ESS)
- Athletic Training Graduate Program - MS (p. 54)
- Clinical Exercise Physiology Graduate Program - MS (p. 56)
- Physical Education Teaching Graduate Program (p. 58)
  - Physical Education Teaching - MS (p. 58)
  - Physical Education Teaching - MS: Adapted Physical Education Emphasis
  - Physical Education Teaching - MS: Adventure/Outdoor Pursuits Emphasis (p. 62)

Geography (GEO)
- Geographic Information Science Graduate Program - Certificate (p. 64)

Health Professions (HP)
- Medical Dosimetry Graduate Program (p. 65)
  - Track A: Dosimetry for Radiation Therapist - MS (p. 65)
  - Track B: Dosimetry for Non-Radiation Therapist - MS (p. 68)
  - Track C: Dosimetry for Certified Medical Dosimetrist - MS (p. 69)
- Occupational Therapy Graduate Program - MS (p. 71)
- Physical Therapy Doctorate Program - DPT (p. 74)
- Physician Assistant Studies Graduate Program - MS (p. 78)

Library (LIB)
- Information Technology Management Graduate Program (p. 82)
  - Information Technology Management - MS (p. 82)
  - Enterprise Infrastructure Certificate (p. 83)
  - IT Leadership Certificate (p. 83)
  - IT Operations Certificate (p. 84)

Mathematics and Statistics (MTH/STAT)
- Applied Statistics Graduate Program - MS (p. 91)
- Data Science Graduate Program (p. 93)
  - Data Science - MS (p. 93)
  - Data Science Certificate (p. 94)

Microbiology (MIC)
- Microbiology Graduate Program (p. 85)
  - Microbiology - MS (p. 85)
  - Microbiology - MS: Clinical Microbiology Emphasis (p. 87)

Marketing (MKT)
- Digital Marketing Graduate Program (p. 90)
  - Digital Marketing Analytics Certificate (p. 90)
  - Digital Marketing Management Certificate (p. 90)

Public Health and Community Health Education (PH)
- Public Health Graduate Program (p. 97)
  - Public Health - MPH: Community Health Education Emphasis (p. 97)
- Healthcare Administration Graduate Program (p. 95)
- Healthcare Administration - MS (p. 95)
- Senior Living and Services Leadership Certificate (p. 96)

Psychology (PSY)
- School Psychology On-Campus Graduate Program (p. 99)
  - Master of Science in Education - MSED (p. 100)
  - Educational Specialist - Ed.S. (p. 101)
- School Psychology Online Graduate Program (p. 104)
  - Master of Science in Education - MSED (p. 105)
  - Educational Specialist - Ed.S. (p. 106)

Recreation Management & Therapeutic Recreation (REC/RTH)
- Recreation Management Graduate Program - MS (p. 108)
- Recreation Management: Professional Development Graduate Program - MS (p. 111)
- Recreational Therapy Graduate Program - MS (p. 113)

School of Education (SOE)

Institute for Professional Studies in Education
- Professional Studies in Education Graduate Programs (p. 116) - MSED programs
  - Professional Development: Learning Community Emphasis - MSED (p. 117)
  - Professional Development: Educational Leadership Emphasis - MSED (p. 119)
  - Professional Development: Educational Leadership and Director of Instruction Emphasis - MSED (p. 120)
- Reading - MSED (non certification) (p. 122)
- Reading: Reading Teacher (1316) Emphasis - MSED (p. 123)
- Reading: Reading Specialist (5017) Emphasis - MSED (p. 125)
- Reading: Reading Teacher (1316) and Reading Specialist (5017) Emphasis - MSED (p. 126)
- Professional Studies in Education Graduate Programs (p. 116) - other
• Educational Leadership (5051) Certificate (p. 128)
• Professional Learning Community Certificate (p. 128)
• Reading Teacher (1316) Certificate (p. 129)
• Special Education (2081) Certificate (p. 129)
• Teaching English to Speakers of Other Languages (TESOL) Certificate (p. 130)
• Director of Instruction (5010) Add-on Certification (p. 131)
• Reading Specialist (5017) Add-on Certification (p. 131)

**Student Affairs Administration (SAA)**

• Student Affairs Administration Graduate Program - MSED (p. 133)
  • Blended (p. 133)
  • Online (p. 135)
• Student Affairs Administration and Leadership Graduate Program (p. 137)
  • Student Affairs Administration and Leadership - Ed.D. (p. 137)
  • Higher Education Leadership Certificate (p. 139)
BIO - Biology Graduate Program

Biology Program
Biology: Aquatic Science Concentration
Biology: Cellular and Molecular Biology Concentration
Biology: Environmental Science Concentration
Biology: Physiology Concentration
Director: Anita Davelos
4032 Cowley Hall; 608.785.8239
Email: adavelos@uw lax.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 before 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.

Program length

The Master of Science (M.S.) in biology programs are typically two-year programs. Number of credits required varies by program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student's plan of coursework, research, or capstone project.

2023-24 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

Tisha King-Heiden
Barrett Klein
Jennifer Klein
Sumei Liu
Margaret (Peg) Maher
Jennifer Miskowski
Todd Osmundson
Gregory Sandland
Eric Strauss
Meredith Thomsen

Associate Professor
Michael Abler
Sierra Colavito
Anita Davelos
Anne Galbraith
Megan Litster
Anton Sanderfoot
Christine Schwartz
Bradley Seebach
Jaclyn Wisinski
Alder Yu

Assistant Professor
Arthur Grupe
Markus Mika
David Schumann
Ross Vander Vorste

Teaching Professor
Faye Ellis

Associate Teaching Professor
Kristin Greany
Lisa Kobs

Assistant Teaching Professor
Jason Freund

Graduate degrees

- Biology - MS (p. 41)
- Biology - MS: Aquatic science concentration (p. 41)
- Biology - MS: Cellular and molecular biology concentration (p. 43)
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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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 - 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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 501</td>
<td>Comparative Vertebrate Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIO 504</td>
<td>Plant Taxonomy</td>
<td>3</td>
</tr>
<tr>
<td>BIO 505</td>
<td>Aquatic and Wetland Vascular Plants</td>
<td>2</td>
</tr>
<tr>
<td>BIO 506</td>
<td>Parasitology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 512</td>
<td>Mycology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 514</td>
<td>Freshwater Invertebrate Zoology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 519</td>
<td>Quantitative Methods in Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 522</td>
<td>Ichthyology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 529</td>
<td>Evolution</td>
<td>3</td>
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<td>BIO 541</td>
<td>Environmental Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 544</td>
<td>Entomology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 546</td>
<td>Animal Behavior</td>
<td>3</td>
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<td>BIO 547</td>
<td>Standard Methods/Quality Assurance Water Analyses</td>
<td>3</td>
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<td>BIO 558</td>
<td>Comparative Animal Physiology</td>
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<tr>
<td>BIO 564</td>
<td>Stream and Watershed Ecology</td>
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<td>BIO 573</td>
<td>Marine Biology</td>
<td>3</td>
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<td>BIO 576</td>
<td>Ecosystem Ecology</td>
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<td>BIO 583</td>
<td>Cell Signaling</td>
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<td>BIO 799</td>
<td>Research: Master's Thesis</td>
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<td>GEO 505</td>
<td>Geographic Information System and Science I</td>
<td>3</td>
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<td>GEO 510</td>
<td>Geospatial Field Methods</td>
<td>3</td>
</tr>
<tr>
<td>GEO 512</td>
<td>Geospatial Applications of Unmanned Aerial Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEO 515</td>
<td>Remote Sensing of the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEO 527</td>
<td>Sustainable Water Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>GEO 528</td>
<td>Past Environmental Change</td>
<td>3</td>
</tr>
<tr>
<td>GEO 530</td>
<td>River Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEO 545</td>
<td>Remote Sensing of the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEO 585</td>
<td>Geographic Information System and Science II</td>
<td>3</td>
</tr>
<tr>
<td>GEO 588</td>
<td>Spatial Data Analysis</td>
<td>3</td>
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<tr>
<td>MIC 534</td>
<td>Aquatic Microbial Ecology</td>
<td>3</td>
</tr>
<tr>
<td>MIC 730</td>
<td>Biodegradation and Bioremediation of Environmental Contaminants</td>
<td>2</td>
</tr>
<tr>
<td>STAT 505</td>
<td>Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>STAT 545</td>
<td>Correlation and Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STAT 546</td>
<td>Analysis of Variance and Design of Experiments</td>
<td>3</td>
</tr>
<tr>
<td>STAT 547</td>
<td>Nonparametric Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 549</td>
<td>Applied Multivariate Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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.)

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: 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,

1. The research thesis must be in an area of cellular or molecular biology, 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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIC 516</td>
<td>Prokaryotic Molecular Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO 532</td>
<td>Biology of Cancer</td>
<td>2</td>
</tr>
<tr>
<td>BIO 535</td>
<td>Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 536</td>
<td>Molecular Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIO 537</td>
<td>Plant Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>BIO 543</td>
<td>Molecular Mechanism of Disease and Drug Action</td>
<td>3</td>
</tr>
<tr>
<td>BIO 558</td>
<td>Comparative Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 583</td>
<td>Cell Signaling</td>
<td>3</td>
</tr>
<tr>
<td>BIO 714</td>
<td>Advanced Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO 799</td>
<td>Research: Master's Thesis</td>
<td>1-6</td>
</tr>
</tbody>
</table>

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
All graduate students in biology must meet the following requirements:

Program requirements

Concentration - Master of Science

Biology: Environmental Science

5. Enroll in BIO 701 Communication 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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).

11. 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,

1. The research thesis must be in an area of environmental science, and
2. 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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO 501</td>
<td>Comparative Vertebrate Anatomy</td>
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<tr>
<td>BIO 504</td>
<td>Plant Taxonomy</td>
<td>3</td>
</tr>
<tr>
<td>BIO 505</td>
<td>Aquatic and Wetland Vascular Plants</td>
<td>2</td>
</tr>
<tr>
<td>BIO 506</td>
<td>Parasitology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 512</td>
<td>Mycology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 514</td>
<td>Freshwater Invertebrate Zoology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 519</td>
<td>Quantitative Methods in Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 522</td>
<td>Ichthyology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 529</td>
<td>Evolution</td>
<td>3</td>
</tr>
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<td>BIO 541</td>
<td>Environmental Toxicology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 542</td>
<td>Plant Microbe Interactions</td>
<td>3</td>
</tr>
<tr>
<td>BIO 544</td>
<td>Entomology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 546</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BIO 547</td>
<td>Standard Methods/Quality Assurance Water Analyses</td>
<td>3</td>
</tr>
<tr>
<td>BIO 556</td>
<td>Plant Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 558</td>
<td>Comparative Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 564</td>
<td>Stream and Watershed Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 573</td>
<td>Marine Biology</td>
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<td>BIO 576</td>
<td>Ecosystem Ecology</td>
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<td>Cell Signaling</td>
<td>3</td>
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<tr>
<td>BIO 588</td>
<td>Mammalogy</td>
<td>3</td>
</tr>
<tr>
<td>BIO 723</td>
<td>21st Century Mycology</td>
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<td>BIO 799</td>
<td>Research: Master's Thesis</td>
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<td>GEO 505</td>
<td>Geographic Information System and Science II</td>
<td>3</td>
</tr>
<tr>
<td>GEO 510</td>
<td>Geospatial Field Methods</td>
<td>3</td>
</tr>
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<td>GEO 512</td>
<td>Geospatial Applications of Unmanned Aerial Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEO 515</td>
<td>Remote Sensing of the Environment I</td>
<td>3</td>
</tr>
<tr>
<td>GEO 525</td>
<td>Biogeography</td>
<td>3</td>
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<tr>
<td>GEO 526</td>
<td>Sustainable Water Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>GEO 528</td>
<td>Past Environmental Change</td>
<td>3</td>
</tr>
<tr>
<td>GEO 530</td>
<td>River Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEO 545</td>
<td>Remote Sensing of the Environment II</td>
<td>3</td>
</tr>
<tr>
<td>GEO 585</td>
<td>Geographic Information System and Science III</td>
<td>3</td>
</tr>
<tr>
<td>GEO 588</td>
<td>Spatial Data Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>
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 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.
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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.)

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

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

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 524</td>
<td>Human Endocrinology</td>
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</tr>
<tr>
<td>BIO 528</td>
<td>Advanced Nutrition for the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>BIO 532</td>
<td>Biology of Cancer</td>
<td>2</td>
</tr>
<tr>
<td>BIO 535</td>
<td>Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 536</td>
<td>Molecular Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIO 558</td>
<td>Comparative Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 565</td>
<td>Neurophysiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 567</td>
<td>Neurobiology Laboratory Techniques</td>
<td>2</td>
</tr>
<tr>
<td>BIO 583</td>
<td>Cell Signaling</td>
<td>3</td>
</tr>
<tr>
<td>BIO 718</td>
<td>Advanced Human Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 719</td>
<td>Advanced Human Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 799</td>
<td>Research: Master's Thesis</td>
<td>1-6</td>
</tr>
</tbody>
</table>

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
CS - Financial Technology Graduate Program

*FinTech Graduate Program*

**Director:** Kenny Hunt  
213 Wing Technology Center; 608-785-6822

https://cs.uwlax.edu/

A collaborative program

The certificates in the Financial Technology (FinTech) Graduate Program are flexible [online](https://cs.uwlax.edu/) programs offered jointly by UW-Parkside and UW-La Crosse with administrative assistance from UW-Extended Campus. Each certificate consists of three courses for a total of nine credits.

Financial technology

Financial technology (FinTech) is a discipline that applies computing systems and computing strategies to the financial services industry. Some of the most active areas of FinTech innovation include: cryptocurrency (Bitcoin, Ethereum, and others) and related areas such as distributed ledgers (i.e., blockchain), digital tokens (i.e., NFTs), digital wallets, and smart contracts; mobile banking; contactless payment systems (i.e., Google Pay, Apple Pay); cybersecurity; robotic process automation; roboadvisors; and automated regulatory compliance algorithms. Both the Emerging Technologies in FinTech Certificate and the Leading FinTech Transformation Certificate provide students the technical competencies required to advance their professional career within the FinTech industry.

Program length

The graduate certificates in the Financial Technology Program are typically one-year programs. The program length is based on how long the required UWL coursework would take to complete for a part-time student, taking one course per term. Program length may be shortened if students take more than one course in a term.

Certificates

- Emerging technologies in fintech - certificate program (p. 48)
- Leading fintech transformation - certificate program (p. 48)

Emerging Technologies in FinTech Certificate

Program requirements

Admission

Admission to the Emerging Technologies in FinTech Certificate requires:

1. A baccalaureate degree from an accredited institution
2. An overall undergraduate GPA on required transcripts of at least a 3.0 on a 4.0 scale

Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNT 730</td>
<td>Technologies in FinTech</td>
<td>3</td>
</tr>
<tr>
<td>FNT 735</td>
<td>Blockchain Technologies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 9

Students must earn a minimum 3.00 cumulative GPA in the certificate’s coursework.

Leading FinTech Transformation Certificate

Program requirements

Admission

Admission to the Leading FinTech Transformation Certificate requires:

1. A baccalaureate degree from an accredited institution
2. An overall undergraduate GPA on required transcripts of at least a 3.0 on a 4.0 scale

Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNT 700</td>
<td>FinTech Essentials</td>
<td>3</td>
</tr>
<tr>
<td>FNT 705</td>
<td>FinTech Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FNT 710</td>
<td>Managing FinTech Innovation</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 9

Students must earn a minimum 3.00 cumulative GPA in the certificate’s coursework.
Graduate degree

- Software engineering - MSE (p. 49)

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 555</td>
<td>Fundamentals of Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CS 741</td>
<td>Software Engineering Principles</td>
<td>3</td>
</tr>
<tr>
<td>CS 743</td>
<td>Software Verification and Validation</td>
<td>3</td>
</tr>
<tr>
<td>CS 744</td>
<td>Software Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CS 746</td>
<td>Software Modeling and Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective courses**

Select nine credits from the following:

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
</tr>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>CS 502</td>
<td>Web Application Development</td>
</tr>
<tr>
<td>CS 510</td>
<td>Free and Open Source Software Development</td>
</tr>
<tr>
<td>CS 518</td>
<td>Mobile Application Development</td>
</tr>
<tr>
<td>CS 519</td>
<td>Topics in Computer Science</td>
</tr>
<tr>
<td>CS 521</td>
<td>Programming Language Concepts</td>
</tr>
<tr>
<td>CS 531</td>
<td>Introduction to Robotics</td>
</tr>
<tr>
<td>CS 541</td>
<td>Operating System Concepts</td>
</tr>
<tr>
<td>CS 542</td>
<td>Structures of Compilers</td>
</tr>
<tr>
<td>CS 543</td>
<td>Topics in Operating Systems</td>
</tr>
<tr>
<td>CS 549</td>
<td>Advances in Software Engineering</td>
</tr>
<tr>
<td>CS 551</td>
<td>User Interface Design</td>
</tr>
<tr>
<td>CS 552</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>CS 553</td>
<td>Introduction to Theory of Computation</td>
</tr>
<tr>
<td>CS 554</td>
<td>Digital Image Processing</td>
</tr>
<tr>
<td>CS 556</td>
<td>Secure Software Development</td>
</tr>
<tr>
<td>CS 557</td>
<td>Machine Learning</td>
</tr>
<tr>
<td>CS 561</td>
<td>Introduction to Data Science</td>
</tr>
<tr>
<td>CS 564</td>
<td>Advanced Database Management Systems</td>
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<tr>
<td>CS 570</td>
<td>Parallel and Distributed Computing</td>
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<tr>
<td>CS 571</td>
<td>Computer Networks</td>
</tr>
<tr>
<td>CS 572</td>
<td>Internet of Things</td>
</tr>
<tr>
<td>CS 575</td>
<td>Computer Graphics and Modeling</td>
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<tr>
<td>CS 576</td>
<td>Data Visualization</td>
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<tr>
<td>CS 750</td>
<td>Topics in Software Engineering</td>
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<td>CS 751</td>
<td>Seminar in Software Engineering</td>
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<tr>
<td>CS 752</td>
<td>Independent Study</td>
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</table>

**Capstone project work**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CS 798</td>
<td>Software Development Project (take at least two semesters, maximum of six per semester)</td>
<td>12</td>
</tr>
</tbody>
</table>

**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.
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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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
uwex.wisconsin.edu/cybersecurity/ (https://uwex.wisconsin.edu/cybersecurity/)
www.uwlax.edu/grad/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.

Program length
The Master of Science (M.S.) in Cybersecurity Program is typically a two-year program. The program length is based on how long the required UWL coursework would take to complete for a part-time student taking six credits a term, who does not need to complete any prerequisite coursework. Program length may be extended if students take fewer than six credits per term or due to the requirements of an individual student’s plan of coursework, research or capstone project.

Graduate degree
• Cybersecurity - MS (p. 52)

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

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CYB 700</td>
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<tr>
<td>CYB 703</td>
<td>Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CYB 705</td>
<td>Sociological Aspects of Cybersecurity</td>
<td>3</td>
</tr>
<tr>
<td>CYB 707</td>
<td>Cybersecurity Program Planning and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>CYB 710</td>
<td>Introduction to Cryptography</td>
<td>3</td>
</tr>
<tr>
<td>CYB 715</td>
<td>Managing Security Risk</td>
<td>3</td>
</tr>
<tr>
<td>CYB 720</td>
<td>Communication in Cybersecurity</td>
<td>3</td>
</tr>
</tbody>
</table>

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 or 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.

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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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 - Athletic Training Graduate Program

Athletic Training Program
Director: Cordial Gillette
214 Mitchell Hall; 608.785.8196
Email: cgillette@uw lax.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 (M.S.) 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.

Program length

The Master of Science (M.S.) in Athletic Training Program is typically a two-year program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student's plan of coursework, research or capstone project.

Graduate degree

- Athletic training - MS (p. 54)

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.
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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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 - Clinical Exercise Physiology Graduate Program

Clinical Exercise Physiology Program
Director: Salvador Jaime
141 Mitchell Hall; 608.785.6518
Email: sjaime@uwla.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-term 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, a long-term rehabilitation maintenance program, and health/nutrition services to over 100 participants each week. The required internship - three months during the last term - presents opportunities for further experience at a site of the student’s choosing. The completion of a thesis or graduate 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

Program length
The Master of Science (M.S.) in Clinical Exercise Physiology Program is typically a 15-month program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s plan of coursework, research or capstone project.

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:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ESS 205</td>
<td>Human Anatomy and Physiology for Exercise Science I</td>
<td>3</td>
</tr>
<tr>
<td>ESS 206</td>
<td>Human Anatomy and Physiology for Exercise Science II</td>
<td>3</td>
</tr>
<tr>
<td>ESS 281</td>
<td>Prevention and Care of Athletic Injuries</td>
<td>2</td>
</tr>
<tr>
<td>ESS 302</td>
<td>Physiology of Exercise</td>
<td>3</td>
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Curriculum

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<th>Credits</th>
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<tr>
<td>Category A - Capstone (12 credits)</td>
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<tr>
<td>ESS 730</td>
<td>Research Methods for Exercise and Sport Science</td>
<td>3</td>
</tr>
<tr>
<td>ESS 735</td>
<td>Statistics for Exercise and Sport Science</td>
<td>3</td>
</tr>
<tr>
<td>ESS 720</td>
<td>Graduate Project in Clinical Exercise Physiology</td>
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</tr>
<tr>
<td>or ESS 799</td>
<td>Research: Master’s Thesis</td>
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<td>Category B - Core requirements (34 credits)</td>
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<td>ESS 744</td>
<td>Lab Techniques in Clinical Exercise Physiology</td>
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<tr>
<td>ESS 770</td>
<td>Physiology of Activity</td>
<td>3</td>
</tr>
<tr>
<td>ESS 774</td>
<td>Clinical in Phase I and Phase II Cardiac Rehabilitation</td>
<td>2</td>
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<td>ESS 776</td>
<td>Clinical in Adult Fitness/Phase III Cardiac Rehabilitation (taken three times)</td>
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<tr>
<td>ESS 780</td>
<td>Philosophy and Organization of Preventive and Rehabilitative Programs</td>
<td>2</td>
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<tr>
<td>ESS 782</td>
<td>Electrocardiography</td>
<td>3</td>
</tr>
<tr>
<td>ESS 783</td>
<td>Graded Exercise Testing and Exercise Prescription</td>
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<tr>
<td>ESS 784</td>
<td>Advanced Cardiovascular Physiology</td>
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<tr>
<td>ESS 785</td>
<td>Internship: Clinical Exercise Physiology</td>
<td>5</td>
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<tr>
<td>ESS 786</td>
<td>Advanced Cardiac Life Support (ACLS)</td>
<td>1</td>
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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 degree

• Clinical exercise physiology - MS (p. 56)
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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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

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<th>Credits</th>
<th>Spring</th>
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<td></td>
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<td>ESS 735</td>
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<td>ESS 780</td>
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<td>ESS 776</td>
<td>3</td>
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<td>ESS 720 or 799</td>
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<td>ESS 786</td>
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<th>Year 2</th>
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<td>ESS 785</td>
<td>5</td>
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</tr>
</tbody>
</table>

Total Credits: 46
ESS - Exercise and Sport Science: Physical Education Teaching Graduate Program

Exercise and Sport Science: Physical Education Teaching Graduate Program

Director: Jenna Starck
223A Cartwright Center; 608.785.6535
Email: jstarck@uwlax.edu

Exercise and Sport Science: Physical Education Teaching with Adapted Physical Education Emphasis
Program Coordinator: Brock McMullen
158 Mitchell Hall; 608.785.8167
Email: bmcmullen@uwlax.edu

Exercise and Sport Science: Physical Education Teaching with Adventure/Outdoor Pursuits Emphasis
Program Coordinator: Jenna Starck
223A Cartwright Center; 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 or non-thesis option. 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.

Program length

The Master of Science (M.S.) in Physical Education Teaching Program is typically a two-year program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student's plan of coursework, research or capstone project.

Graduate degrees

- Exercise and sport science: physical education teaching - MS (p. 58)
- Exercise and sport science: physical education teaching - MS: adapted physical education emphasis (p. 60)

ESS: Physical Education Teaching - Master of Science

This program is being offered in either the in-person format or hybrid (combination of in-person and online) format.

In-Person

The in-person track meets on campus at UWL for most classes. This format provides students the opportunity to earn a master's degree throughout the school year and summer. Most coursework will take place in the afternoon/evenings.

Hybrid/blended

The hybrid track is offered to practitioners who are unable to travel to UW-La Crosse for in-person coursework on a weekly basis. This format provides students the opportunity to earn a master's degree in an online synchronous setting in the afternoon/evenings. Additional electives (10 - 13) will need to be selected which may require in-person learning.

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

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ESS 730</td>
<td>Research Methods for Exercise and Sport Science</td>
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<td>ESS 735</td>
<td>Statistics for Exercise and Sport Science</td>
<td>3</td>
</tr>
<tr>
<td>ESS 799</td>
<td>Research: Master's Thesis</td>
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</table>

Total Credits 12

- Non-thesis option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td>ESS 730</td>
<td>Research Methods for Exercise and Sport Science</td>
<td>3</td>
</tr>
<tr>
<td>ESS 752</td>
<td>Assessment of Physical Education and Athletics</td>
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</table>

Written comprehensive exam required

Total Credits 6
Category B - core requirements

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

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

Program Coordinator: Brock McMullen
158 Mitchell Hall; 608.785.8167
Email: bmcmullen@uwlax.edu

www.uwlax.edu/grad/physical-education-teaching/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.

Candidates may elect to certify their program and receive UWL endorsement for a WI K-12 APE teaching license. 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

The APE graduate program can be completed while students are enrolled either full-time or on a part-time basis.

Center on Disability Health and Adapted Physical Activity

The Center on Disability Health and Adapted Physical Activity (http://www.uwlax.edu/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

Candidates for the Physical Education Teaching - Adapted Physical Education Emphasis Program must meet the following minimum admission requirements:

- Meet all UWL graduate admission requirements
- Have completed or be enrolled in a physical education teacher preparation program
- Complete a successful criminal background check (initiated by UWL - see below)

The Physical Education Teaching - Adapted Physical Education Emphasis Program does not lead to endorsement for a Physical Education teaching license. Candidates accepted to the program must provide evidence to the program director that they have completed their physical education teacher preparation program and have applied for a Physical Education teaching license prior to the end of the fall term (second term of coursework). Candidates who are not able to do so may appeal for continuation in the program. Candidates whose appeal is not granted and are dismissed from the program are not eligible for tuition reimbursement.

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 (PI 34.018(2) (https://docs.legis.wisconsin.gov/code/admin_code/pi/34/iv/018/2/)). 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
Certification option

Candidates in the Physical Education Teaching - Adapted Physical Education Emphasis Program may elect to certify their program and receive UWL endorsement for a Wisconsin K-12 Adapted Physical Education teaching license (#1860). In order to certify the program, candidates must:

1. Indicate their choice to certify their program by the end of the fall semester (second term of coursework).
2. Complete all Physical Education Teaching - Adapted Physical Education Emphasis Program requirements.
3. Hold a Wisconsin Physical Education (PE) teaching license. Candidates holding a PE license from another state must apply for a WI PE license through the Department of Public Instruction (a fee may apply). Interested candidates should contact the SOE Teacher Certification Officer (soe@uwla.edu).

Candidates who complete the Physical Education Teaching - Adapted Physical Education Emphasis Program without meeting all certification requirements will not be eligible for UWL endorsement for a WI Adapted Physical Education teaching license.²

Candidates who complete the program without certification may request endorsement for a WI Adapted Physical Education teaching license at a later time, provided they have completed all current certification requirements. Endorsement after program completion is contingent on meeting all current program and WI DPI licensing requirements at the time of the request.

Curriculum

36-39 credits

**Category A - research**

1. Thesis option

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<thead>
<tr>
<th>Code</th>
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<td>ESS 730</td>
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<td>ESS 735</td>
<td>Statistics for Exercise and Sport Science</td>
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<td>ESS 799</td>
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2. Non-thesis option

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<td>ESS 736</td>
<td>Critical Analysis Project: Adapted Physical Education</td>
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**Category B - core requirements**

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**Category C - adapted physical education teaching requirements**

**Thesis option: 13 credits**

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<td>ESS 535</td>
<td>Sport for Persons with Disabilities</td>
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<td>ESS 536</td>
<td>Assessment in Adapted Physical Education</td>
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<td>ESS 537</td>
<td>Teaching and Service Delivery Models in Adapted Physical Education</td>
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<tr>
<td>ESS 787</td>
<td>Clinical Internship in Adapted Physical Education</td>
<td>3</td>
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<tr>
<td><strong>Elective (required for non-thesis option only)</strong></td>
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<td><strong>3</strong></td>
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**Non-thesis option: 16 credits**

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<td>Research Methods for Exercise and Sport Science</td>
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<tr>
<td><strong>Elective (required for non-thesis option only)</strong></td>
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</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

² 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/](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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines ([https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/](https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/)), see Graduate & Extended Learning.
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

This program is being offered in either the in-person format or hybrid (combination of in-person and online) format.

In-Person

The in-person track meets on campus at UW-L for most classes. This format provides students the opportunity to earn a master’s degree throughout the school year and summer. Most coursework will take place in the afternoon/evenings.

Hybrid/blended

The hybrid track is offered to practitioners who are unable to travel to UW-La Crosse for in-person coursework on a weekly basis. This format provides students the opportunity to earn a master’s degree in an online synchronous setting in the afternoon/evenings. However, in-person attendance is required for three courses (see below):

1. ESS 765 - Offered summer over two weekends (UWL)
2. ESS 745 - Offered spring over two weekends (UWL and Devil’s Lake, WI)
3. ESS 705 - Offered summer over one week (Estes Park, CO or alternate)

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

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<thead>
<tr>
<th>Code</th>
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<tr>
<td>ESS 735</td>
<td>Statistics for Exercise and Sport Science</td>
<td>3</td>
</tr>
</tbody>
</table>

ESS 799 | Research: Master’s Thesis | 6 |

Total Credits | 12 |

- Non-thesis option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ESS 730</td>
<td>Research Methods for Exercise and Sport Science</td>
<td>3</td>
</tr>
<tr>
<td>ESS 752</td>
<td>Assessment of Physical Education and Athletics</td>
<td>3</td>
</tr>
</tbody>
</table>

Written comprehensive exam required

Total Credits | 6 |

Category B - core requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESS 725</td>
<td>Diversity in the Physical Activity Setting</td>
<td>2</td>
</tr>
<tr>
<td>ESS 727</td>
<td>Planning for Effective Instruction in Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>ESS 737</td>
<td>Curriculum Design in Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>ESS 759</td>
<td>Analysis and Supervision of Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>ESS 765</td>
<td>Adventure Education for Physical Educators</td>
<td>3</td>
</tr>
<tr>
<td>ESS 771</td>
<td>Current Issues in Physical Education</td>
<td>2-3</td>
</tr>
</tbody>
</table>

Total Credits | 14 |

Category C - electives

Thesis option: 10 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ESS 705</td>
<td>Outdoor Pursuits &amp; Experiential Learning</td>
<td>3</td>
</tr>
<tr>
<td>ESS 745</td>
<td>Pedagogy of Outdoor Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>ESS 777</td>
<td>Seminar in Adventure/Outdoor Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>ESS 778</td>
<td>Practicum in Adventure Education</td>
<td>2</td>
</tr>
<tr>
<td>Elective (required for non-thesis option only)</td>
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</table>

Non-thesis option: 13 credits

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESS 705</td>
<td>Outdoor Pursuits &amp; Experiential Learning</td>
<td>3</td>
</tr>
<tr>
<td>ESS 745</td>
<td>Pedagogy of Outdoor Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>ESS 777</td>
<td>Seminar in Adventure/Outdoor Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>ESS 778</td>
<td>Practicum in Adventure Education</td>
<td>2</td>
</tr>
<tr>
<td>Elective (required for non-thesis option only)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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.)
GEO - Geographic Information Science Graduate Program

Fundamentals of GIS Certificate Program
Director: Colin Belby
2021 Cowley Hall; 608.785.8339
Email: cbelby@uwlax.edu


This certificate prepares graduate students with the technological and theoretical skills needed to apply geospatial tools. Over the last few decades, geospatial tools have become increasingly complex, prompting a large demand for individuals with formal training. The field of geographic information science (GIS) is highly interdisciplinary and has wide range of applications within academia and industry. Outside the traditional fields of geography and environmental sciences, GIS is utilized in archeology, biology, crime analysis, data sciences, epidemiology and public health, emergency planning and disaster management, recreation management, water and wastewater management, telecommunication, engineering and business services, aerospace and defense, transportation and logistics, and oil and gas exploration.

By completing this certificate, students will gain experience with common commercial and open-source geospatial software. The certificate’s core and elective courses cover five aspects of the University Consortium for Geographic Information Science’s GIS and Technology Body of Knowledge: (i) Conceptual Foundations, (ii) Geospatial Data Collection, Processing, and Management, (iii) Cartography and Visualization, (iv) Data Modeling, and (v) Analytical Methods.

Students need to complete nine credits, including three credits of a core course and six credits of elective courses, and submit a GIS portfolio to the program advisor upon completion of the program.

Eligibility

The Fundamentals of GIS Graduate Certificate is open only to degree-seeking graduate students at UWL with limited prior GIS experience. Students must be enrolled in another graduate degree-seeking program at UWL to earn this certificate.

Program length

The Fundamentals of GIS Graduate Certificate is typically the same length as the student’s degree-seeking program as the certificate cannot be awarded until the student completes their degree-seeking program. UWL graduate degree-seeking programs are typically two to three years in length. Program lengths are based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s degree-seeking plan of coursework, research or capstone project.

Certificate

- Fundamentals of geographic information science (GIS) - certificate program (p. 64)

Fundamentals of Geographic Information Science (GIS) Certificate

Program requirements

Admission

A foundation in geographic information science (GIS) through prior coursework or professional work experience, approved by the department, is required for admission to the Fundamentals of GIS Program. Students without prior GIS experience can meet this requirement by completing GEO 590 Independent Study. This course will provide the foundational GIS knowledge taught in GEO 305 Geographic Information Systems and Science I and additional GIS graduate level applications and learning objectives. Credits earned in GEO 590 do not count towards the Fundamentals of GIS Program.

Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEO 505</td>
<td>Geographic Information System and Science II</td>
<td>3</td>
</tr>
<tr>
<td>GEO 585</td>
<td>Geographic Information System and Science III</td>
<td>3</td>
</tr>
<tr>
<td>GEO 305</td>
<td>Geographic Science Graduate Program</td>
<td>3</td>
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</table>

Electives

Select six credits from any of the following. Courses are grouped by potential areas of focus.

Field mapping

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>GEO 510</td>
<td>Geospatial Field Methods</td>
<td>3</td>
</tr>
<tr>
<td>GEO 512</td>
<td>Geospatial Applications of Unmanned Aerial Systems</td>
<td>3</td>
</tr>
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Remote sensing

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEO 515</td>
<td>Remote Sensing of the Environment I</td>
<td>3</td>
</tr>
<tr>
<td>GEO 545</td>
<td>Remote Sensing of the Environment II</td>
<td>3</td>
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Geovisualization

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GEO 518</td>
<td>Map Design and Geovisualization</td>
<td>3</td>
</tr>
<tr>
<td>GEO 555</td>
<td>Web Mapping</td>
<td>3</td>
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</table>

Geospatial data analysis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEO 550</td>
<td>Scripting in GIS</td>
<td>3</td>
</tr>
<tr>
<td>GEO 585</td>
<td>Geographic Information System and Science III</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 585</td>
<td>Geographic Information System and Science III</td>
<td>9</td>
</tr>
</tbody>
</table>

Students are required to develop a GIS portfolio and submit it to the program advisor to complete the Fundamentals of GIS Program.
HP - Medical Dosimetry Graduate Program

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

Director: Nishele Lenards
4031 Health Science Center; 608.785.6622
Email: nlenards@uw lax.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

<table>
<thead>
<tr>
<th>Route of entry</th>
<th>Student Profile</th>
<th>Length</th>
<th>Number of Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track A (full-time)</td>
<td>For radiation therapists</td>
<td>4 terms</td>
<td>46</td>
</tr>
<tr>
<td>Track A (part-time)</td>
<td>For radiation therapists</td>
<td>7 terms</td>
<td>46</td>
</tr>
<tr>
<td>Track B</td>
<td>For non-radiation therapists</td>
<td>4 terms</td>
<td>46</td>
</tr>
<tr>
<td>Track C</td>
<td>For certified medical dosimetrists</td>
<td>3 terms</td>
<td>31</td>
</tr>
</tbody>
</table>

Program length

The Master of Science (M.S.) in Medical Dosimetry Program is typically a 16-month program. Number of credits required varies by track. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student's plan of coursework, research or capstone project.

2023-24 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
Shauna Salow
Angela Wiste

Graduate degrees

- Dosimetry for radiation therapist (track A) - MS (p. 65)
- Dosimetry for non-radiation therapist (track B) - MS (p. 68)
- Dosimetry for certified medical dosimetrists (track C) - MS (p. 69)

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

Track A (full-time) includes a 12 month clinical internship program that takes place place from January through December. For Track A (part-time) the clinical internship program starts in May and ends in December of the following year. 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

Program admission requirements for track A

- Applicants must have earned a baccalaureate degree. (A degree in biology, chemistry, computer science, mathematics, physics, radiation therapy, radiologic sciences, or other areas approved by the program.)
- Minimum cumulative GPA of 3.00 in all college level coursework attempted.
- Minimum GPA of 3.00 in all science and math coursework attempted.
- The following prerequisite coursework completed by the application deadline:
### Curriculum - Track A (for radiation therapists)

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOS 511</td>
<td>Imaging and Localization Concepts</td>
<td>2</td>
</tr>
<tr>
<td>DOS 513</td>
<td>Anatomy for Medical Dosimetrists</td>
<td>2</td>
</tr>
<tr>
<td>DOS 514</td>
<td>Physics Fundamentals for Medical Dosimetrists</td>
<td>3</td>
</tr>
<tr>
<td>DOS 516</td>
<td>Fundamentals of Radiation Safety</td>
<td>1</td>
</tr>
<tr>
<td>DOS 750</td>
<td>Professional e-Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>DOS 523</td>
<td>Treatment Planning and Calculations</td>
<td>4</td>
</tr>
<tr>
<td>DOS 525</td>
<td>Brachytherapy for Medical Dosimetrists</td>
<td>2</td>
</tr>
<tr>
<td>DOS 711</td>
<td>Research Methods I</td>
<td>3</td>
</tr>
<tr>
<td>DOS 771</td>
<td>Clinical Internship I</td>
<td>5</td>
</tr>
<tr>
<td>DOS 518</td>
<td>Professional Issues in Medical Dosimetry</td>
<td>1</td>
</tr>
<tr>
<td>DOS 531</td>
<td>Clinical Oncology for Medical Dosimetrists</td>
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</tr>
<tr>
<td>DOS 731</td>
<td>Research Methods II</td>
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<tr>
<td>DOS 741</td>
<td>Protocols and Studies in Radiation Oncology</td>
<td>1</td>
</tr>
<tr>
<td>DOS 772</td>
<td>Clinical Internship II</td>
<td>5</td>
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<tr>
<td>DOS 541</td>
<td>Radiobiology for Medical Dosimetrists</td>
<td>1</td>
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<tr>
<td>DOS 542</td>
<td>Quality Assurance</td>
<td>2</td>
</tr>
<tr>
<td>DOS 543</td>
<td>Seminar in Medical Dosimetry</td>
<td>2</td>
</tr>
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</table>

#### Prerequisite coursework

- Human Anatomy and Physiology two-semester sequence with labs; 6-8 or equivalent
- Physics two-semester 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

- UW System application and official transcripts.
- Written responses to required essay prompts, submitted online.
- Direct patient healthcare experience, submitted online and evaluated for the quality and extent of the experience.
- Four recommendations, two of which must come from individuals who have worked with or supervised the applicant in a clinical setting.
- Minimum of 40 hours of observation in medical dosimetry. The individual providing the observation may not also submit a recommendation.
- Evidence of current ARRT certification.
- Interviews with adjunct faculty at affiliated clinical internship sites.

International applicants must also submit the following items:

- Foreign credential evaluation with course-by-course review.
- Proof of English language proficiency for non-native speakers via an acceptable TOEFL or IELTS or DET exam score.

Additional details on admissions requirements and where to submit materials can be found on the Medical Dosimetry application process website (https://www.uwlax.edu/grad/medical-dosimetry/application-process/).

### 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.)

### Sample degree plan - full time

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits Spring</th>
<th>Credits Summer</th>
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<td>Fall</td>
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<tr>
<td>DOS 511</td>
<td>2 DOS 523</td>
<td>4 DOS 541</td>
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<tr>
<td>DOS 513</td>
<td>2 DOS 711</td>
<td>3 DOS 525</td>
<td>2</td>
</tr>
<tr>
<td>DOS 514</td>
<td>3 DOS 531</td>
<td>2 DOS 731</td>
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<table>
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<td>DOS 751</td>
<td>Research Methods III</td>
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</table>
Sample degree plan - part time

<table>
<thead>
<tr>
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<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
<th>Summer</th>
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<tr>
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<td>DOS 523</td>
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<td>DOS 542</td>
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<td>DOS 711</td>
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<td>DOS 731</td>
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<td>DOS 518</td>
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<td>DOS 771</td>
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<td>DOS 543</td>
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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. 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

Program admission requirements for track B

- Applicants must have earned a baccalaureate degree. (A degree in biology, chemistry, computer science, mathematics, physics, radiation therapy, radiologic sciences, or other areas approved by the program.)
- Minimum cumulative GPA of 3.00 in all college level coursework attempted.
- Minimum GPA of 3.00 in all science and math coursework attempted.
- The following prerequisite coursework completed by the application deadline:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite coursework</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Anatomy and Physiology two-semester sequence with labs; 6-8 equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics two-semester sequence; or equivalent</td>
<td>6-8</td>
<td></td>
</tr>
<tr>
<td>Pre-Calculus; or College Algebra + Trigonometry; or equivalent</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Biology; or equivalent</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Medical Terminology; or equivalent</td>
<td>1-3</td>
<td></td>
</tr>
</tbody>
</table>

- UW System application and official transcripts.
- Written responses to required essay prompts, submitted online.
- Direct patient healthcare experience, submitted online and evaluated for the quality and extent of the experience.
- Four recommendations, two of which must come from individuals who have worked with or supervised the applicant in a clinical setting.
- Minimum of 40 hours of observation in medical dosimetry. The individual who provides the observation may not also serve as a recommendation.
- Interviews with adjunct faculty at affiliated clinical internship sites.

International applicants must also submit the following items:

- Foreign credential evaluation with course-by-course review.
- Proof of English language proficiency for non-native speakers via an acceptable TOEFL or IELTS or DET exam score.

Additional details on admissions requirements and where to submit materials can be found on the Medical Dosimetry application process website (https://www.uwlax.edu/grad/medical-dosimetry/application-process/).

Curriculum - Track B (for non-radiation therapists)

Students enrolled in the Medical Dosimetry Master of Science 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOS 511</td>
<td>Imaging and Localization Concepts</td>
<td>2</td>
</tr>
<tr>
<td>DOS 513</td>
<td>Anatomy for Medical Dosimetrists</td>
<td>2</td>
</tr>
<tr>
<td>DOS 514</td>
<td>Physics Fundamentals for Medical Dosimetrists</td>
<td>3</td>
</tr>
<tr>
<td>DOS 516</td>
<td>Fundamentals of Radiation Safety</td>
<td>1</td>
</tr>
<tr>
<td>DOS 750</td>
<td>Professional e-Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>DOS 523</td>
<td>Treatment Planning and Calculations</td>
<td>4</td>
</tr>
<tr>
<td>DOS 525</td>
<td>Brachytherapy for Medical Dosimetrists</td>
<td>2</td>
</tr>
<tr>
<td>DOS 711</td>
<td>Research Methods I</td>
<td>3</td>
</tr>
<tr>
<td>DOS 771</td>
<td>Clinical Internship I</td>
<td>5</td>
</tr>
<tr>
<td>DOS 518</td>
<td>Professional Issues in Medical Dosimetry</td>
<td>1</td>
</tr>
<tr>
<td>DOS 531</td>
<td>Clinical Oncology for Medical Dosimetrists</td>
<td>2</td>
</tr>
<tr>
<td>DOS 731</td>
<td>Research Methods II</td>
<td>2</td>
</tr>
<tr>
<td>DOS 741</td>
<td>Protocols and Studies in Radiation Oncology</td>
<td>1</td>
</tr>
<tr>
<td>DOS 772</td>
<td>Clinical Internship II</td>
<td>5</td>
</tr>
<tr>
<td>DOS 541</td>
<td>Radiobiology for Medical Dosimetrists</td>
<td>1</td>
</tr>
<tr>
<td>DOS 542</td>
<td>Quality Assurance</td>
<td>2</td>
</tr>
<tr>
<td>DOS 543</td>
<td>Seminar in Medical Dosimetry</td>
<td>2</td>
</tr>
<tr>
<td>DOS 773</td>
<td>Clinical Internship III</td>
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</tr>
<tr>
<td>DOS 751</td>
<td>Research Methods III</td>
<td>2</td>
</tr>
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</table>

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning.
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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines, see Graduate & Extended Learning.

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
<th>Summer</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>DOS 511</td>
<td>2</td>
<td>DOS 523</td>
<td>4</td>
<td>DOS 541</td>
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</tr>
<tr>
<td></td>
<td>DOS 513</td>
<td>2</td>
<td>DOS 711</td>
<td>3</td>
<td>DOS 525</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>DOS 514</td>
<td>3</td>
<td>DOS 531</td>
<td>2</td>
<td>DOS 731</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>DOS 516</td>
<td>1</td>
<td>DOS 771</td>
<td>5</td>
<td>DOS 741</td>
<td>1</td>
</tr>
<tr>
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<td></td>
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Year 2

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<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DOS 542</td>
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<td>DOS 518</td>
<td>1</td>
</tr>
<tr>
<td>DOS 773</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

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

Program admission requirements for track C

- Applicants must have earned a baccalaureate degree. (A degree in biology, chemistry, computer science, mathematics, physics, radiation therapy, radiologic sciences, or other areas approved by the program.)
- Minimum cumulative GPA of 3.00 in all college level coursework attempted.
- Minimum GPA of 3.00 in all science and math coursework attempted.
- The following prerequisite coursework completed by the application deadline:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Prerequisite coursework</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Human Anatomy and Physiology two-semester sequence with labs</td>
<td>6-8</td>
</tr>
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<td></td>
<td>Physics two-semester sequence; or equivalent</td>
<td>6-8</td>
</tr>
<tr>
<td></td>
<td>Pre-Calculus; or College Algebra + Trigonometry; or equivalent</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Biology; or equivalent</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Medical Terminology; or equivalent</td>
<td>1-3</td>
</tr>
</tbody>
</table>

- UW System application and official transcripts.
- Direct patient healthcare experience, submitted online and evaluated for the quality and extent of the experience.
- Signed letter from the facility's administrator/manager demonstrating current employment and support for completion of the degree program.
- Four recommendations, two of which must come from individuals who have worked with or supervised the applicant in a clinical setting.
- Evidence of current MDCB certification.

International applicants must also submit the following items:

- Foreign credential evaluation with course-by-course review.
- Proof of English language proficiency for non-native speakers via an acceptable TOEFL or IELTS or DET exam score.

Additional details on admissions requirements and where to submit materials can be found on the Medical Dosimetry application process website (https://www.uwlax.edu/grad/medical-dosimetry/application-process/).

Curriculum - Track C (for certified medical dosimetrists)

Students enrolled in the Medical Dosimetry Master of Science Program must take certain courses in sequence (see sample degree plan tab). Courses are listed in order of enrollment.

31 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOS 711</td>
<td>Research Methods I</td>
<td>3</td>
</tr>
<tr>
<td>DOS 750</td>
<td>Professional e-Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>DOS 781</td>
<td>CMD Seminar I</td>
<td>3</td>
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<td>DOS 791</td>
<td>Fieldwork I</td>
<td>4</td>
</tr>
<tr>
<td>DOS 518</td>
<td>Professional Issues in Medical Dosimetry</td>
<td>1</td>
</tr>
</tbody>
</table>
### 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.

<table>
<thead>
<tr>
<th>First year</th>
<th>Credits</th>
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</thead>
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<td>Spring</td>
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</tr>
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</tr>
<tr>
<td>DOS 750</td>
<td>1</td>
</tr>
<tr>
<td>DOS 781</td>
<td>3</td>
</tr>
<tr>
<td>DOS 791</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits: 11</strong></td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td></td>
</tr>
<tr>
<td>DOS 731</td>
<td>2</td>
</tr>
<tr>
<td>DOS 741</td>
<td>1</td>
</tr>
<tr>
<td>DOS 782</td>
<td>3</td>
</tr>
<tr>
<td>DOS 792</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits: 10</strong></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>DOS 751</td>
<td>2</td>
</tr>
<tr>
<td>DOS 518</td>
<td>1</td>
</tr>
<tr>
<td>DOS 783</td>
<td>3</td>
</tr>
<tr>
<td>DOS 793</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits: 10</strong></td>
<td></td>
</tr>
</tbody>
</table>

### 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/](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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines ([https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/](https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/)), see Graduate & Extended Learning.
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.)
HP - Occupational Therapy
Graduate Program

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

Program Director: Laura Schaffer
4049 Health Science Center; 608.785.8462
Email: lschaffer@uwlax.edu

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

Program length
The Master of Science (M.S.) in Occupational Therapy Program is typically a two and a half year program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s plan of coursework, research or capstone project.

2023-24 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
Brandon McCauley, MS, OTR/L, CLT

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

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

Graduate degree
- Occupational therapy - MS (p. 71)

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 to certification, most states require licensure in order to practice. 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
   Medical Terminology       | 1
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. 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

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>OT 520</td>
<td>Introduction to Occupational Therapy</td>
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<tr>
<td>OT 523</td>
<td>Human Physiology</td>
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<tr>
<td>OT 524</td>
<td>Human Anatomy</td>
<td>5</td>
</tr>
<tr>
<td>OT 526</td>
<td>Foundations of Movement</td>
<td>3</td>
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<tr>
<td>OT 545</td>
<td>Clinical Applications of Movement</td>
<td>1</td>
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<tr>
<td>OT 550</td>
<td>Scholarly Practice I: Occupational Therapy</td>
<td>2</td>
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<tr>
<td>OT 555</td>
<td>Research</td>
<td>1</td>
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<tr>
<td>OT 570</td>
<td>Occupational Therapy Intervention: Group Dynamics</td>
<td>1</td>
</tr>
<tr>
<td>OT 571</td>
<td>Applied Occupational Therapy Intervention: Group Dynamics</td>
<td>1</td>
</tr>
<tr>
<td>OT 530</td>
<td>Occupational Performance Analysis</td>
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<tr>
<td>OT 531</td>
<td>Applied Occupational Performance Analysis</td>
<td>1</td>
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<tr>
<td>OT 723</td>
<td>Occupational Science</td>
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</tr>
<tr>
<td>OT 751</td>
<td>Scholarly Practice II: Research Methodology</td>
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</tr>
<tr>
<td>OT 625</td>
<td>Community Mental Health Promotion</td>
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<tr>
<td>OT 670</td>
<td>Occupational Performance: Physical Dysfunction I</td>
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<td>OT 671</td>
<td>Applied Occupational Performance: Physical Dysfunction I</td>
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</tr>
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<td>OT 650</td>
<td>Occupations and Interventions: Pediatrics I</td>
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<tr>
<td>OT 651</td>
<td>Applied Occupations and Interventions: Pediatrics I</td>
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<tr>
<td>OT 611</td>
<td>Occupational Therapy in Acute Care Settings</td>
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<td>OT 515</td>
<td>Functional Neuroanatomy</td>
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<td>OT 700</td>
<td>Physical Agent Modalities</td>
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<td>OT 640</td>
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<td>Level I Fieldwork: Physical Dysfunction I</td>
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<td>Critical Analysis of Practice</td>
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</tr>
<tr>
<td>OT 760</td>
<td>Scholarly Practice III: Evidence-Based Practice and Research</td>
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</tr>
<tr>
<td>OT 730</td>
<td>Occupational Performance: Physical Dysfunction II</td>
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<td>OT 731</td>
<td>Applied Occupational Performance: Physical Dysfunction II</td>
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<tr>
<td>OT 776</td>
<td>Occupations and Interventions: Older Adult</td>
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<tr>
<td>OT 777</td>
<td>Applied Occupations and Interventions: Older Adult</td>
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</tr>
<tr>
<td>OT 740</td>
<td>Occupations and Interventions: Pediatrics II</td>
<td>2</td>
</tr>
<tr>
<td>OT 741</td>
<td>Applied Occupational and Interventions: Pediatrics II</td>
<td>1</td>
</tr>
<tr>
<td>OT 780</td>
<td>Program Development</td>
<td>3</td>
</tr>
<tr>
<td>OT 791</td>
<td>Level I Fieldwork: Pediatrics</td>
<td>1</td>
</tr>
<tr>
<td>OT 641</td>
<td>Health Care Systems</td>
<td>3</td>
</tr>
<tr>
<td>OT 777</td>
<td>Scholarly Practice IV: Analysis and Scholarly Dissemination</td>
<td>2</td>
</tr>
<tr>
<td>OT 726</td>
<td>Professional Seminar</td>
<td>2</td>
</tr>
<tr>
<td>OT 785</td>
<td>Adult Clinical Practice</td>
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</tr>
<tr>
<td>OT 786</td>
<td>Applied Adult Clinical Practice</td>
<td>1</td>
</tr>
<tr>
<td>OT 787</td>
<td>Pediatric Clinical Practice</td>
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<tr>
<td>OT 788</td>
<td>Applied Pediatric Clinical Practice</td>
<td>1</td>
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<tr>
<td>OT 782</td>
<td>Level I Fieldwork: Community Mental Health &amp; Wellness</td>
<td>1</td>
</tr>
<tr>
<td>OT 795</td>
<td>Level II Fieldwork (taken twice)</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Credits: 85 credits

Optional electives

- OT 720 Selected Topics in Occupational Therapy will be taught periodically as an elective during Fall II or Spring II semesters.
- OT 798 Independent Study in Occupational Therapy is 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 Graduate & Extended Learning for editorial
review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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

<table>
<thead>
<tr>
<th>Summer</th>
<th>Credits Fall</th>
<th>Credits</th>
<th>Spring Credits</th>
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<tbody>
<tr>
<td>OT 520</td>
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</tr>
<tr>
<td>OT 523</td>
<td>4 OT 526</td>
<td>3</td>
<td>OT 751</td>
</tr>
<tr>
<td>OT 545</td>
<td>1</td>
<td>OT 625</td>
<td>3</td>
</tr>
<tr>
<td>OT 550</td>
<td>2</td>
<td>OT 670</td>
<td>2</td>
</tr>
<tr>
<td>OT 570</td>
<td>1</td>
<td>OT 671</td>
<td>1</td>
</tr>
<tr>
<td>OT 571</td>
<td>1</td>
<td>OT 650</td>
<td>2</td>
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<td>OT 530</td>
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<tr>
<td>OT 531</td>
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|         | 7 | 15 | 15 |

#### Year 2

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<td>OT 780</td>
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|         | 7 | 16 | 1 | 12 |

#### Year 3

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<tr>
<td>OT 795</td>
<td>6 OT 795</td>
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</table>

|         | 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 798 Independent Study in Occupational Therapy is taught by arrangement with occupational therapy faculty.
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.

Program length

The Doctor of Physical Therapy (DPT) Program is typically a three-year program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s plan of coursework, research or capstone project.

2023-24 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 Kernozek, Ph.D

Doctor of Physical Therapy

Summary of program

- Cohort size: 45 admitted per year
- Total program credits: 110 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 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).
- Complete 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.)

Prerequisite requirements

All applicants must successfully complete the following prerequisite courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PTS 512</td>
<td>Medical Physiology</td>
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<td>PTS 520</td>
<td>Introduction to Physical Therapy Practice and Evaluation Techniques</td>
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<tr>
<td>PTS 521</td>
<td>Applied Introduction to Physical Therapy Practice and Evaluation Techniques</td>
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<tr>
<td>PTS 516</td>
<td>Physiological Regulation of Exertion and Disease</td>
<td>1</td>
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<tr>
<td>PTS 517</td>
<td>Applied Physiological Regulation of Exertion and Disease</td>
<td>1</td>
</tr>
<tr>
<td>PTS 527</td>
<td>Clinical Foundations of the Physical Therapy Examination</td>
<td>3</td>
</tr>
<tr>
<td>PTS 528</td>
<td>Applied Clinical Foundations of the Physical Therapy Examination</td>
<td>2</td>
</tr>
<tr>
<td>PTS 523</td>
<td>Physical Agents</td>
<td>1</td>
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<tr>
<td>PTS 524</td>
<td>Applied Physical Agents</td>
<td>1</td>
</tr>
<tr>
<td>PTS 525</td>
<td>Kinesiology and Biomechanics of Normal and Abnormal Movement</td>
<td>2</td>
</tr>
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<td>PTS 526</td>
<td>Applied Biomechanics and Kinesiology of Movement</td>
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<tr>
<td>PTS 535</td>
<td>Functional Neuroanatomy</td>
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<tr>
<td>PTS 536</td>
<td>Applied Functional Neuroanatomy</td>
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<tr>
<td>PTS 651</td>
<td>Fieldwork: Introduction to Clinical Learning</td>
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<tr>
<td>PTS 518</td>
<td>Motor Control, Learning and Development</td>
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<td>PTS 519</td>
<td>Applied Motor Control, Learning, and Development</td>
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<tr>
<td>PTS 545</td>
<td>Foundations of Clinical Research</td>
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<td>PTS 546</td>
<td>Applied Foundations of Clinical Research</td>
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<tr>
<td>PTS 611</td>
<td>Pathophysiology and Differential Diagnosis</td>
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<tr>
<td>PTS 619</td>
<td>Early Intervention and Acute Care Physical Therapy</td>
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<td>PTS 620</td>
<td>Applied Early Intervention and Acute Care Physical Therapy</td>
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<tr>
<td>PTS 627</td>
<td>Therapeutic Exercise and Manual Therapy</td>
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<td>PTS 628</td>
<td>Applied Therapeutic Exercise and Manual Therapy</td>
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<tr>
<td>PTS 625</td>
<td>Physical Therapy Management of the Cardiovascular/Pulmonary System</td>
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<td>PTS 626</td>
<td>Applied Physical Therapy Management of the Cardiovascular/Pulmonary System</td>
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<tr>
<td>PTS 631</td>
<td>Professionalism and the Ethos of Care</td>
<td>2</td>
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<tr>
<td>PTS 542</td>
<td>Research and Applied Statistics</td>
<td>3</td>
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<tr>
<td>PTS 543</td>
<td>Instrumentation for Human Movement</td>
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<td>PTS 544</td>
<td>Applied Instrumentation for Human Movement</td>
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<tr>
<td>PTS 623</td>
<td>Integument System</td>
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<td>PTS 624</td>
<td>Applied Integument System</td>
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<tr>
<td>PTS 728</td>
<td>Musculoskeletal Evaluation and Treatment: Spine</td>
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<td>PTS 729</td>
<td>Applied Musculoskeletal Evaluation and Treatment: Spine</td>
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<td>PTS 751</td>
<td>Fieldwork: General Practice</td>
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<tr>
<td>PTS 701</td>
<td>Applied Adult Clinical Practice (required in two semesters)</td>
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<td>PTS 709</td>
<td>Health and Wellness in Physical Therapy Practice</td>
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<tr>
<td>PTS 711</td>
<td>Pharmacology</td>
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<td>PTS 712</td>
<td>Clinical Radiology</td>
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<td>PTS 715</td>
<td>Musculoskeletal Examination and Intervention: Lower Extremity</td>
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<td>PTS 716</td>
<td>Applied Musculoskeletal Examination and Interventions: Lower Extremity</td>
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<tr>
<td>PTS 717</td>
<td>Clinical Teaching</td>
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<tr>
<td>PTS 718</td>
<td>Applied Clinical Teaching</td>
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Curriculum

Classroom and laboratory learning (listed in order of enrollment)

110 credits (includes internship credits)

Courses are taken at UWL.

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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PTS 509</td>
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<tr>
<td>PTS 510</td>
<td>Applied Human Gross Anatomy</td>
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</table>
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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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**

<table>
<thead>
<tr>
<th>Title</th>
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<td>PTS 510 Clinical Decision Making</td>
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<td>PTS 512 Clinical Education Experience I</td>
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<td>PTS 514 Independent Study</td>
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<td>PTS 520 Capstone Project</td>
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<tr>
<td>PTS 521 Applied Adult Neurorehabilitative Physical Therapy I</td>
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<td>PTS 525 Health Administration</td>
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<td>PTS 526 Research Practicum</td>
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<td>PTS 527 Contemporary Practice in Neuromusculoskeletal Physical Therapy</td>
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**Internships (taken off campus)**

19 credits

Focus of internship may occur in different order per student.

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<td>PTS 742 Research Practicum</td>
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<td>PTS 710 Applied Health and Wellness in Physical Therapy Practice</td>
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<td>PTS 737 Musculoskeletal Examination and Intervention: Upper Extremity</td>
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**Elective courses (optional)**

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<td>PTS 798 Independent Study</td>
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<td>PTS 854 Capstone Project</td>
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</table>

### University requirements

#### University graduate degree requirements

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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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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.)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Summer Credits</th>
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<th>Spring Credits</th>
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<tr>
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<tr>
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<td>1</td>
<td>PTS 733</td>
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<td>August (4 weeks):</td>
<td></td>
<td></td>
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<tr>
<td>PTS 718</td>
<td>1</td>
<td>2</td>
<td>PTS 737</td>
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<td>PTS 735</td>
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<tr>
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<td>12</td>
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### Year 3

<table>
<thead>
<tr>
<th></th>
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<td>(14 weeks)</td>
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<td>6 PTS 831</td>
<td>1</td>
<td>PTS 853</td>
</tr>
<tr>
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<td>(12 weeks)</td>
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<tr>
<td></td>
<td>6</td>
<td>7</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Credits: 110**

---

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@uwlaus

Co-Director: Lisa Iverson-Leirmo
4051 Health Science Center; 608.785.6621
Email: liverson-leirmo@uwlaus

Co-Director: Maggie Laufenberg
4046 Health Science Center; 608.785.8479
Email: mlauenberg@uwlaus

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, perform select medical procedures, 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 clinical 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).

**Program length**

The Master of Science (M.S.) in Physician Assistant Studies Program is typically a two-year program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s plan of coursework, research or capstone project.

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**2023-24 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**

Sarah Eichenberg, PA-C, MSPAS
Ivy Elsbernd, PA-C, MSPAS
Karen Hayter, PA-C, MS, PhD
Maggie Laufenberg, PA-C, MMS
Lisa Iverson-Leirmo, PA-C, DrPH

**Graduate degree**

- Physician assistant studies - MS (p. 78)

**Physician Assistant Studies - Master of Science**

The rigor of this training program and the skills and responsibility necessary for clinical practice as a physician assistant (PA) require the program to seek applicants with a strong academic background, along with refined interpersonal skills and maturity. Prior healthcare experience is also an indicator of a career commitment to clinical practice.

While academic preparation is the primary criterion used in the admissions review process, nonacademic factors may contribute to the strength of an application. These may include qualities such as demonstrated leadership, involvement, and/or adding a diverse dimension to our campus community. Diversity is essential to our university and profession. Individuals from underrepresented, disadvantaged, or marginalized communities, and military veterans, are encouraged to apply.

The program’s admission process will consider each applicant’s strengths and select for admission those applicants best qualified to meet the program’s mission: “In collaboration with nationally renowned partners, we develop exemplary PAs, in an inclusive culture, who equitably optimize the health of our region.” To align with this mission, current employees of Gundersen Health System, Mayo Clinic, Marshfield Clinic, or UWL who are interested in advancing their career as a PA are encouraged to apply.

**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/).


3. Submission of the program application fee.

4. International applicants have additional requirements. (https://www.uwlax.edu/grad/physician-assistant-studies/admission-requirements/)

To be considered for an interview, all references, transcripts, and GRE scores must be received by CASPA by August 1. The program application fee must be submitted to UWL by August 1 as well. CASPA stops accepting materials after the deadline passes. For details, visit CASPA (https://help.liaisonedu.com/CASPA_Applicant_Help_Center/).

**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. Factors considered in the interview selection include the following:

- Cumulative Grade Point Average (GPA), as calculated by CASPA
- Science GPA, as calculated by CASPA
- Graduate Record Examination (GRE) Scores
- Current employment at Gundersen Health System, Mayo Clinic, or Marshfield Clinic (minimum employment of at least 12 months at the time of application submission)
- UWL students currently enrolled at least part-time (> 6 credits) and on track to earn a bachelor's degree prior to the program start or those who have graduated from UWL within 12 months of application submission

**Final admission selection**

- Written application including references
- Background predictive of potential for future practice in the service areas of the program's partner institutions
- Knowledge of the PA profession and the profession's role in the healthcare system
- Interpersonal skills
- Quality and extent of healthcare related experience
- Rigor of undergraduate education

Strong GPA and GRE scores are necessary to gain an interview, and ultimately, admission.

Any offer of admission will be contingent on acceptance of the candidate by the University of Wisconsin-La Crosse Office of Admissions, and successful completion of all degrees and current coursework, including prerequisites.

**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:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 312</td>
<td>Human Anatomy and Physiology I (BIO 103 or BIO 105 and CHM 103 are prereqs)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 313</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>MIC 230</td>
<td>Fundamentals of Microbiology (BIO 103 or BIO 105 and CHM 103 are prereqs)</td>
<td>4</td>
</tr>
<tr>
<td>CHM 103</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHM 104</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
</tbody>
</table>
Organic chemistry
Select either:
CHM 300  Fundamental Organic Chemistry  4
OR
CHM 303  Organic Chemistry Theory I  6
& CHM 304  and Organic Chemistry Theory II

Biochemistry
Select either:
CHM 325  Fundamental Biochemistry  4
OR
CHM 417  Biochemistry I: Macromolecules  7
& CHM 418  and Biochemistry II: Metabolism and Genetic Information

Mathematics
MTH 151  Precalculus  4-5
or MTH 207  Calculus I

Statistics
STAT 145  Elementary Statistics  4
or STAT 405  Statistical Methods

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 64 credits of didactic and professional development and 44 credits of supervised clinical experiences. Matriculating students are enrolled full-time as a cohort and pre-clinical courses are offered once per year. Students must successfully complete the pre-clinical year to advance to the clinical year.

The clinical year is also full-time and composed of required (PAS 720-732) and specialty rotations (PAS 734) as well as a professional development seminar series. The rotations do not need to be completed in a specific order. Sequence is subject to availability of specific sites.

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

59 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>PAS 509</td>
<td>Human Gross Anatomy</td>
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</tr>
<tr>
<td>PAS 510</td>
<td>Applied Human Gross Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>PAS 626</td>
<td>Physiology for the Medical Professional</td>
<td>4</td>
</tr>
<tr>
<td>PAS 640</td>
<td>Introduction to the Physician Assistant Profession</td>
<td>1</td>
</tr>
<tr>
<td>PAS 680</td>
<td>Pathology</td>
<td>1</td>
</tr>
<tr>
<td>PAS 630</td>
<td>Clinical Pharmacology I</td>
<td>3</td>
</tr>
<tr>
<td>PAS 642</td>
<td>Medical History and Physical Exam</td>
<td>3</td>
</tr>
<tr>
<td>PAS 643</td>
<td>Applied Medical History and Physical Exam</td>
<td>1</td>
</tr>
<tr>
<td>PAS 654</td>
<td>Evidence Based Practice for PAs</td>
<td>2</td>
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Professional Development

5 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>PAS 681</td>
<td>Medical Diagnostics</td>
<td>1</td>
</tr>
<tr>
<td>PAS 682</td>
<td>Internal Medicine: Cardiology</td>
<td>3</td>
</tr>
<tr>
<td>PAS 683</td>
<td>Gastroenterology</td>
<td>2</td>
</tr>
<tr>
<td>PAS 685</td>
<td>Pulmonology</td>
<td>2</td>
</tr>
<tr>
<td>PAS 703</td>
<td>Endocrinology</td>
<td>1</td>
</tr>
<tr>
<td>PAS 707</td>
<td>Hematology</td>
<td>1</td>
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<tr>
<td>PAS 711</td>
<td>Clinical Neuroscience I</td>
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</tr>
<tr>
<td>PAS 800</td>
<td>Clinical Assessment I</td>
<td>1</td>
</tr>
<tr>
<td>PAS 637</td>
<td>Clinical Practice Skills I</td>
<td>1</td>
</tr>
<tr>
<td>PAS 649</td>
<td>Health Care Administration, Law, and Ethics</td>
<td>1</td>
</tr>
<tr>
<td>PAS 717</td>
<td>Rheumatology</td>
<td>1</td>
</tr>
<tr>
<td>PAS 628</td>
<td>Infectious Diseases</td>
<td>2</td>
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<tr>
<td>PAS 631</td>
<td>Clinical Pharmacology II</td>
<td>2</td>
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<tr>
<td>PAS 647</td>
<td>Applied Clinical Practice Skills</td>
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</tr>
<tr>
<td>PAS 652</td>
<td>Clinical Procedures (one credit repeated twice)</td>
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</tr>
<tr>
<td>PAS 701</td>
<td>Nephrology</td>
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<tr>
<td>PAS 709</td>
<td>Emergency Medicine</td>
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<tr>
<td>PAS 712</td>
<td>Clinical Neuroscience II</td>
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<tr>
<td>PAS 760</td>
<td>Obstetrics - Maternal/Fetal Care</td>
<td>1</td>
</tr>
<tr>
<td>PAS 762</td>
<td>Pediatric and Adolescent Medicine</td>
<td>1</td>
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<tr>
<td>PAS 763</td>
<td>Genitourinary Medicine</td>
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<td>PAS 764</td>
<td>Applied Genitourinary Medicine</td>
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<tr>
<td>PAS 770</td>
<td>Principles of Surgical Medicine</td>
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</tr>
<tr>
<td>PAS 771</td>
<td>Orthopedics</td>
<td>1</td>
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<tr>
<td>PAS 772</td>
<td>Principles of Surgical Medicine III: Surgical Subspecialties of Otorhinolaryngology and Ophthalmology</td>
<td>1</td>
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<tr>
<td>PAS 773</td>
<td>Dermatology</td>
<td>1</td>
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<tr>
<td>PAS 801</td>
<td>Clinical Assessment II</td>
<td>1</td>
</tr>
<tr>
<td>PAS 700</td>
<td>Society and Population Health</td>
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</table>

Total Credits 59

Clinical rotations

44 credits

Completion of required rotations (PAS 720-732) and specialty rotations (PAS 734) do not need to be completed in a specific order. Sequence is subject to availability of specific sites.

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>PAS 720</td>
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<td>PAS 722</td>
<td>Internal Medicine Rotation</td>
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</tr>
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<td>PAS 724</td>
<td>General Surgery Rotation</td>
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</tr>
<tr>
<td>PAS 726</td>
<td>Women's Health Rotation</td>
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</tr>
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<td>PAS 728</td>
<td>Pediatric Rotation</td>
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</tr>
<tr>
<td>PAS 730</td>
<td>Behavioral Health Rotation</td>
<td>4</td>
</tr>
<tr>
<td>PAS 732</td>
<td>Emergency Medicine Rotation</td>
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</table>

Total Credits 44

Specialty clinical rotations

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PAS 734</td>
<td>Specialty Medicine Rotation (four credits repeated four times)</td>
<td>16</td>
</tr>
</tbody>
</table>

Total Credits 44
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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PAS 790</td>
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<td>PAS 794</td>
<td>PA Professional Development III Seminar</td>
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<tr>
<td>PAS 802</td>
<td>Summative Assessment</td>
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Total Credits: 5

### Pre-Clinical Year

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<th>Semester</th>
<th>Credits Fall</th>
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<tbody>
<tr>
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<td>3 PAS 630</td>
<td>3 PAS 649</td>
<td>1 PAS 628</td>
<td>2</td>
</tr>
<tr>
<td>PAS 510</td>
<td>3 PAS 642</td>
<td>3 PAS 637</td>
<td>1 PAS 631</td>
<td>2</td>
</tr>
<tr>
<td>PAS 626</td>
<td>4 PAS 643</td>
<td>1 PAS 717</td>
<td>1 PAS 647</td>
<td>2</td>
</tr>
<tr>
<td>PAS 640</td>
<td>1 PAS 654</td>
<td>2</td>
<td>PAS 701</td>
<td>1</td>
</tr>
<tr>
<td>PAS 680</td>
<td>1 PAS 681</td>
<td>1</td>
<td>PAS 709</td>
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<td>PAS 683</td>
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<tr>
<td></td>
<td>PAS 685</td>
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<td>PAS 762</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>PAS 703</td>
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### Clinical Year

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<td>(2)</td>
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Total Credits: 107

1. PAS 652 will be taken in the Summer after Pre-Clinical Spring semester for a total of two credits.
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.uwlax.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.

Certificates

The Information Technology Management Program also offers three certificates and the option to complete the master’s degree. The certificates are organized into three IT management topics:

- IT Leadership
- Enterprise Infrastructure
- IT Operations

Each certificate can be earned independently. Completing the master’s degree in total would require completing all three certificates, plus the pre-capstone and capstone courses.

Program length

The Master of Science (M.S.) in Information Technology Management Program is typically a two-year program. The program length is based on how long the required UWL coursework would take to complete for a part-time student taking six credits a term, who does not need to complete any prerequisite coursework. Program length may be extended if students take fewer than six credits per term or due to the requirements of an individual student’s plan of coursework, research or capstone project.

The graduate certificate programs are typically one-year programs. The program length is based on how long the required UWL coursework would take to complete for a part-time student, taking one course per term. Program length may be shortened if students take more than one course in a term.

Graduate degree

- Information technology management - MS (p. 82)

Certificates

- Enterprise infrastructure certificate (p. 83)
- IT leadership certificate (p. 83)
- IT operations certificate (p. 84)

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 from an accredited institution
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

31 credits

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<td>ITM 710</td>
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<td>Data Science</td>
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<td>ITM 720</td>
<td>Cloud Computing and Enterprise Applications</td>
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<td>ITM 725</td>
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<td>Agile and Traditional IT Project Management</td>
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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 coursework 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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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.)

Enterprise Infrastructure Certificate
Program requirements
Admission
To qualify for admission to the Enterprise Infrastructure Certificate, a candidate must have:

Enterprise Infrastructure Certificate
Program requirements
Admission
To qualify for admission to the Enterprise Infrastructure Certificate, a candidate must have:

IT Leadership Certificate
Program requirements
Admission
To qualify for admission to the IT Leadership Certificate, a candidate must have:

Curriculum

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>ITM 715</td>
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<td>ITM 720</td>
<td>Cloud Computing and Enterprise Applications</td>
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Total Credits  9

Students must earn a minimum 3.00 cumulative GPA in the certificate's coursework.

Curriculum

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<td>ITM 700</td>
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<td>ITM 705</td>
<td>Leading the IT Function</td>
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<td>ITM 710</td>
<td>Finance for IT Managers</td>
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</table>

Total Credits  9

Students must earn a minimum 3.00 cumulative GPA in the certificate's coursework.
IT Operations Certificate

Program requirements

Admission

To qualify for admission to the IT Operations Certificate, a candidate must have:

1. A baccalaureate degree from an accredited institution
2. A 3.0 undergraduate GPA
3. Prerequisite coursework in:
   a. Programming 1
   b. Database 1
   c. Data Communications/Network 1

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

Curriculum

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<tr>
<th>Code</th>
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<td>Business Analysis for Effective IT Organizations</td>
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Students must earn a minimum 3.00 cumulative GPA in the certificate's coursework.
MIC - Microbiology Graduate Program

Microbiology Program
Microbiology: Clinical Microbiology Emphasis
Director: Paul Schweiger
3036 Cowley Hall; 608.785.8254
Email: pschweiger@uwlax.edu

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

The Master of Science in Microbiology Program allows students to advance 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 an application 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.

Program length

The Master of Science (M.S.) in microbiology programs are typically two-year programs. Number of credits required varies by program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s plan of coursework, research or capstone project.

2023-24 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
Todd Weaver

Associate Professor
Bonnie Bratina
Anne Galbraith
Xinhui Li
Bernadette Taylor

Graduate degrees

- Microbiology - MS (p. 85)
- Microbiology - MS: clinical microbiology emphasis (p. 87)

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. (Optional) Completion of the Graduate Record Examination (GRE) is not required, but scores may be considered if available. To submit scores, select UW-La Crosse (code 1914) when taking the GRE.

4. International applicants for graduate study who are not native speakers of English must meet the English language proficiency requirements in the Graduate Admission Policy (http://catalog.uwlax.edu/graduate/admissions/#international-admission).

5. Information about the application process can be found on the program’s application process page (https://www.uwlax.edu/grad/microbiology/application-process/). Applicants are also encouraged to review information regarding graduate assistant positions in biology and microbiology, available on the program’s financial aid page (https://www.uwlax.edu/grad/microbiology/financial-aid/).

6. Three current letters of recommendation should be sent under separate cover.

7. An application letter which details:

Peter Wilker
Assistant Professor
Daniel Bretl
Paul Schweiger

Teaching Professor
Marisa Barbknecht
The Master of Science in Microbiology requires:

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.

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/grad/microbiology/application-process/) has further application and contact information online.

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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. (Optional) Completion of the Graduate Record Examination (GRE) is not required, but scores may be considered if available. To submit scores, select UW-La Crosse (code 1914) when taking the GRE.
5. International applicants for graduate study who are not native speakers of English must meet the English language proficiency requirements in the Graduate Admission Policy (http://catalog.uwlax.edu/graduate/admissions/#international-admission).
6. Information about the application process can be found on the program's application process page (https://www.uwlax.edu/grad/microbiology/application-process/). Applicants are also encouraged to review information regarding graduate assistant positions in biology and microbiology, available on the program's financial aid page (https://www.uwlax.edu/grad/microbiology/financial-aid/).
7. Three current letters of recommendation.
8. 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.

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<td>MIC 751</td>
<td>Graduate Seminar *1</td>
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<td>MIC 753</td>
<td>Epidemiology of Infectious Disease</td>
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<td>6</td>
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<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**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 700 (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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>MIC 516</td>
<td>Prokaryotic Molecular Genetics</td>
<td>4</td>
</tr>
<tr>
<td>MIC 520</td>
<td>Introductory Virology</td>
<td>3</td>
</tr>
<tr>
<td>MIC 521</td>
<td>Virology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>MIC 525</td>
<td>Bacterial Physiology</td>
<td>4</td>
</tr>
<tr>
<td>MIC 540</td>
<td>Bioinformatics</td>
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</tr>
<tr>
<td>MIC 560</td>
<td>Symposium in Microbiology</td>
<td>1-3</td>
</tr>
<tr>
<td>MIC 714</td>
<td>Advanced Genetics</td>
<td>3</td>
</tr>
<tr>
<td>MIC 721</td>
<td>Directed Studies</td>
<td>1-2</td>
</tr>
<tr>
<td>CLI 540</td>
<td>Clinical Parasitology</td>
<td>1</td>
</tr>
<tr>
<td>CLI 584</td>
<td>Laboratory Management</td>
<td>2</td>
</tr>
<tr>
<td>BIO 506</td>
<td>Parasitology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 512</td>
<td>Mycology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 513</td>
<td>Medical Mycology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 535</td>
<td>Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 536</td>
<td>Molecular Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIO 549</td>
<td>Advanced Microscopy and Biological Imaging</td>
<td>3</td>
</tr>
<tr>
<td>BIO 700</td>
<td>Biology Graduate Program Orientation</td>
<td>2</td>
</tr>
<tr>
<td>BIO 701</td>
<td>Communication in the Biological Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PH 755</td>
<td>Epidemiology and Public Health Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

**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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/igel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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.)
MKT - Digital Marketing Graduate Program

Digital Marketing Graduate Program
Program Director: Ken Graham
3101 Wittich Hall; 608.785.8097
Email: kgraham2@uw lax.edu

www.uwlax.edu/marketing/ (https://www.uwlax.edu/marketing/)

A collaborative program

The certificates in the Digital Marketing Graduate Program are flexible online programs offered jointly by UW-Parkside and UW-La Crosse, with administrative assistance from UW-Extended Campus. Each certificate consists of three courses for a total of nine credits.

Digital marketing management certificate

The Digital Marketing Management Certificate Program is beneficial for professionals seeking to advance in strategic management and leadership roles with its emphasis on digital marketing strategy and tactics, project management, leadership skills, and legal and ethical considerations in digital marketing.

Digital marketing analytics certificate

The Digital Marketing Analytics Certificate Program is beneficial for managers seeking to deepen their digital marketing analytics knowledge and skills with its emphasis on digital marketing research practices, digital data collection and management, data analytics and decision-making tools and techniques, and digital marketing technologies.

Program length

The graduate certificates in Digital Marketing are typically one-year programs. The program length is based on how long the required UWL coursework would take to complete for a part-time student, taking one course per term. Program length may be shortened if students take more than one course in a term.

Certificates

- Digital marketing analytics certificate (p. 90)
- Digital marketing management certificate (p. 90)

Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMK 700</td>
<td>SEO and Digital Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>DMK 705</td>
<td>Customer Data Analysis and Decisions</td>
<td>3</td>
</tr>
<tr>
<td>DMK 710</td>
<td>Digital Marketing Technologies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Students must earn a minimum 3.00 cumulative GPA in the certificate's coursework.

Digital Marketing Management Certificate

Program requirements

Admission

Admission to the Digital Marketing Management Certificate requires:
- A baccalaureate degree from an accredited institution
- An overall undergraduate GPA on required transcripts of at least a 3.0 on a 4.0 scale

Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMK 730</td>
<td>Legal and Ethical Considerations in Digital Marketing</td>
<td>3</td>
</tr>
<tr>
<td>DMK 735</td>
<td>Digital Marketing Strategy and Tactics</td>
<td>3</td>
</tr>
<tr>
<td>DMK 740</td>
<td>Digital Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Students must earn a minimum 3.00 cumulative GPA in the certificate's coursework.
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 the following prerequisite courses:

1. At least two semesters of calculus (UWL equivalents MTH 207 Calculus I and MTH 208 Calculus II)
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):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 541</td>
<td>Mathematical Statistics I</td>
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</tr>
<tr>
<td>STAT 542</td>
<td>Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>STAT 545</td>
<td>Correlation and Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STAT 546</td>
<td>Analysis of Variance and Design of Experiments</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>STAT 543</td>
<td>Categorical Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STAT 547</td>
<td>Nonparametric Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 549</td>
<td>Applied Multivariate Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 762</td>
<td>Bayesian Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 763</td>
<td>Survey of Modern Statistical Software</td>
<td>3</td>
</tr>
<tr>
<td>STAT 764</td>
<td>Statistical Learning</td>
<td>3</td>
</tr>
<tr>
<td>STAT 766</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduate project portfolio (6 credits):

Students enrolling in STAT 543, STAT 545, STAT 546, STAT 547, STAT 549, STAT 762, STAT 763, STAT 764, or STAT 766 must enroll at the same time in one credit of STAT 796 per accompanying course. In STAT 796, students complete a project related to the content of the accompanying course. STAT 796 can be taken multiple times in the same term. A total of six credits of STAT 796 are required for completion of the program.

Graduate degree

- Applied statistics - MS (p. 91)
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.)
MTH - Data Science Graduate Program

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

datasciencedegree.wisconsin.edu/ (https://datasciencedegree.wisconsin.edu/)
www.uwlax.edu/grad/data-science/ (https://www.uwlax.edu/grad/data-science/)

Master of Science program

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), including a required capstone course as the culminating experience for students. The online M.S. in Data Science Program focuses 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.

Certificate program

The graduate Data Science Certificate is a 15-credit program for working professionals who require increased competency in core data science topics including statistics, exploratory data analysis, programming, data warehousing, data mining and machine learning, and communicating about data.

Collaborative programs

Both the M.S. in Data Science and the graduate Data Science Certificate are fully online programs offered jointly by UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, and UW-Superior. The programs follow 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.

Program length

The Master of Science (M.S.) in Data Science Program is typically a two-year program. The graduate Data Science Certificate is typically a one-year program. The program length is based on how long the required UWL coursework would take to complete for a part-time student taking six credits a term, who does not need to complete any prerequisite coursework. Program length may be extended if students take fewer than six credits per term or due to the requirements of an individual student’s plan of coursework, research or capstone project.

Graduate degree

- Data science - MS (p. 93)

Certificate

- Data science certificate (p. 94)

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/apply/graduate-student/)
2. Completed the following three courses:
   a. Elementary Statistics
   b. Introduction to Programming
   c. Introduction to Databases

Curriculum

36 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 700</td>
<td>Foundations of Data Science</td>
<td>3</td>
</tr>
<tr>
<td>DS 705</td>
<td>Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>DS 710</td>
<td>Programming for Data Science</td>
<td>3</td>
</tr>
<tr>
<td>DS 715</td>
<td>Data Warehousing</td>
<td>3</td>
</tr>
<tr>
<td>DS 730</td>
<td>Big Data: High Performance Computing</td>
<td>3</td>
</tr>
<tr>
<td>DS 735</td>
<td>Communicating about Data</td>
<td>3</td>
</tr>
<tr>
<td>DS 740</td>
<td>Data Mining and Machine Learning</td>
<td>3</td>
</tr>
<tr>
<td>DS 745</td>
<td>Visualization and Unstructured Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>DS 760</td>
<td>Ethics of Data Science</td>
<td>3</td>
</tr>
<tr>
<td>DS 775</td>
<td>Prescriptive Analytics</td>
<td>3</td>
</tr>
<tr>
<td>DS 780</td>
<td>Data Science and Strategic Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>DS 785</td>
<td>Capstone</td>
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</tr>
</tbody>
</table>

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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.)

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Data Science Certificate

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/apply/graduate-student/)

2. Completed the following three courses:
   a. Elementary Statistics
   b. Introduction to Programming
   c. Introduction to Databases

Curriculum

15 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 700</td>
<td>Foundations of Data Science</td>
<td>3</td>
</tr>
<tr>
<td>DS 710</td>
<td>Programming for Data Science</td>
<td>3</td>
</tr>
<tr>
<td>DS 715</td>
<td>Data Warehousing</td>
<td>3</td>
</tr>
<tr>
<td>DS 735</td>
<td>Communicating about Data</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must earn a minimum 3.00 cumulative GPA in the certificate's coursework.
Healthcare Administration Program

Director: Keely Rees
418N Wimberly Hall; 608.785.8168
Email: krees@uw lax.edu

healthcareadministration.wisconsin.edu/ (https://healthcareadministration.wisconsin.edu/)
www.uwlax.edu/grad/health-care-administration/ (https://www.uwlax.edu/grad/health-care-administration/)

Master of Science program

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.

Certificate program

The graduate Senior Living and Services Leadership Certificate represents a certificate and credential within the existing and established collaborative online MS in Healthcare Administration (MS-HCA) program. The certificate program will be offered as a fully online, asynchronous curriculum comprised of two MS-HCA foundational courses and two new courses (12 credits total) within the MS-HCA curriculum. The program serves as an additional and optional credential for in-program (i.e. MS-HCA degree-seeking) students as well as a freestanding certificate program for non-degree (i.e. certificate-only) students who may or may not elect to pursue the full MS-HCA degree following completion of the certificate. The certificate is targeted toward working professionals who wish to work in the area of senior care, and those who currently work in the area and are seeking advancement, but do not possess the required skills.

Following the collaborative model, students will select and enroll at a home campus from which they will receive full academic supports and the certificate is conferred. Academic advising will be provided by the designated MS-HCA academic director at each institution.

Program length

The Master of Science (M.S.) in Healthcare Administration Program is typically a two-year program. The graduate Senior Living and Services Leadership Certificate is typically a one-year program. The program length is based on how long the required UW-L coursework would take to complete for a part-time student taking six credits a term, who does not need to complete any prerequisite coursework. Program length may be extended if students take fewer than six credits per term or due to the requirements of an individual student’s plan of coursework, research or capstone project.

Graduate degree

- Healthcare administration - MS (p. 95)

Certificate

- Senior living and services leadership certificate (p. 96)

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)

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

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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.)

Senior Living and Services Leadership Certificate

Admission and program prerequisites

Admission requirements for the graduate Senior Living and Services Leadership Certificate Program include a bachelor's degree and a 3.0 undergraduate GPA.

Program prerequisites include coursework in:

- Elementary Statistics,
- Medical Terminology, and
- Oral Communication/Public Speaking/Speech.

Relevant work experience may be considered in lieu of this coursework.

Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 701</td>
<td>Senior Care and Services Systems</td>
<td>3</td>
</tr>
<tr>
<td>HCA 702</td>
<td>Leadership Practices across the Senior Care Continuum</td>
<td>3</td>
</tr>
<tr>
<td>HCA 720</td>
<td>Healthcare Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>HCA 730</td>
<td>Human Capital Management in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>12</strong></td>
<td></td>
</tr>
</tbody>
</table>
PH - Public Health Graduate Program

Master of Public Health - Community Health Education Program
Director: Anders Cedergren
418J Wimberly Hall; 608.785.6790
Email: acedergren@uw lax.edu


The Master of Public Health in Community Health Education (MPH-CHE) Program is an online professional graduate degree program designed for the mid-career health professional seeking additional skills in epidemiology, administration, planning/evaluation, policy and community health education. The Master of Public Health (MPH) with an emphasis in community health education is an online degree aligned with the eight areas of responsibilities designated by the National Commission for Health Education Credentialing (NCHEC) and is aligned with the Council on Education for Public Health (CEPH) learning domains.

Program length

The Master of Public Health in Community Health Education (MPH-CHE) Program is typically a two-year program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s plan of coursework, research or capstone project.

Graduate degree

- Master of Public Health - MPH: community health education emphasis (p. 97)

Public Health: Community Health Education Emphasis - Master of Public Health

Program requirements

Admission

1. Students must apply through the UW System application (https://apply.wisconsin.edu/sign-in/) and submit the supplemental application materials (letters of recommendation, personal statement, and resume) by the application deadline. Details regarding the supplemental application materials and the application deadline can be found on the MPH program webpage.

A Graduate Advisory Committee with the graduate program director will assess all submitted materials. A student’s acceptance or non-acceptance is based upon a comprehensive review of the application components and is not based solely on any particular element.

2. A baccalaureate degree from an accredited institution
   a. An overall undergraduate grade point average on required transcripts of at least 2.85 (3.0 preferred) on a 4.0 scale
   b. or an average of at least 3.0 GPA in the last half of all undergraduate work
   c. or an average of at least 3.00 GPA for no less than 12 semester credits of graduate study at another accredited graduate school.

Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 700</td>
<td>Public Health Foundations</td>
<td>3</td>
</tr>
<tr>
<td>PH 701</td>
<td>Public Health Issues</td>
<td>3</td>
</tr>
<tr>
<td>PH 710</td>
<td>Quantitative Methods</td>
<td>4</td>
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<tr>
<td>PH 711</td>
<td>Qualitative Methods</td>
<td>3</td>
</tr>
<tr>
<td>PH 725</td>
<td>Communication Methods for Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 755</td>
<td>Epidemiology and Public Health Issues</td>
<td>3</td>
</tr>
<tr>
<td>PH 760</td>
<td>Public Health Advocacy and Policy</td>
<td>3</td>
</tr>
<tr>
<td>PH 770</td>
<td>Program Planning</td>
<td>3</td>
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<tr>
<td>PH 771</td>
<td>Program Implementation and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>PH 775</td>
<td>Grant Development for Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PH 780</td>
<td>Public Health Applied Practice Experience (APE)</td>
<td>4</td>
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<tr>
<td>PH 790</td>
<td>Public Health Administration and Organization</td>
<td>3</td>
</tr>
<tr>
<td>PH 792</td>
<td>Public Health Integrative Learning Experience</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits: 42

1 Must be taken in two consecutive terms.

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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 On-Campus Program**

*Education Specialist and Master of Science in Education*

**School Psychology Program (On-Campus)**

Director: Daniel Hyson  
341N Graff Main Hall; 608.785.8444  
Email: dhyson@uw lax.edu

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

The UW-La Crosse School Psychology On-Campus 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 Praxis II School Psychologist content knowledge test (#5402) or UWL comprehensive examination. 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 (http://catalog.uwlax.edu/graduate/programrequirements/schoolpsychology/master-science-education-degree/) degree before completing the remaining Educational Specialist (p. 101) degree requirements.

The UW-La Crosse School Psychology On-Campus Program is part of the Department of Psychology and the College of Arts, Social Sciences, and Humanities and is affiliated with the School of Education. The program is approved by the Wisconsin Department of Public Instruction (DPI) and has conditional accreditation from the National Association of School Psychologists (NASP). Upon completion of all program requirements, students are eligible for licensure as a school psychologist in Wisconsin and 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 On-Campus Program prepares graduate students for licensure as school psychologists through academic coursework, 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, social justice, and mental health.

The School Psychology On-Campus Program adheres to state and national training standards for school psychology. Graduate students develop professional competencies that meet Wisconsin Pupil Services Standards and NASP training standards (2020), which include data-based decision making; consultation and collaboration; academic interventions and instructional supports; mental and behavioral health services and interventions; school-wide practices to promote learning; services to promote safe and supportive schools; family, school, and community collaboration; equitable practices for diverse student populations; research and evidence-based practice; 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 prepare 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 engage in authentic clinical experiences in K-12 schools and apply their evolving school psychology knowledge, skills, and dispositions while in their school site. 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 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**

Information about how to apply is available on the program website (https://www.uwlax.edu/grad/school-psychology/application-process/). In addition to meeting all the requirements established for general graduate admissions, students must also meet School Psychology On-Campus Program and School of Education requirements before admission to the program. These additional requirements are described on the individual program catalog pages herein. Students are also expected to participate in an on-campus interview as a component of the selection process. Admission is competitive and meeting the minimum admission requirements does not guarantee admission to the program.

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. 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.

**Program length**

The Master of Science in Education (M.S.Ed.) degree in the School Psychology On-Campus Program is typically a one-year program. The Educational Specialist (Ed.S.) degree in the School Psychology On-Campus Program is typically a two-year program. Students must complete both programs to earn the Ed.S. degree. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s plan of coursework, research or capstone project.

**2023-24 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.
Candidates seeking WI certification as a school psychologist must complete the Master of Science in Education (M.S.Ed.) in School Psychology (p. 100) requirements followed by the Education Specialist (Ed.S.) in School Psychology (p. 101) requirements in order to be endorsed for licensure. UWL offers both degrees through the School Psychology Program.

In addition to meeting all UWL criteria for admission to graduate programs (p. 11), applicants to the on-campus School Psychology Program must do the following:

- Complete an undergraduate statistics course as a prerequisite for the program.
- Provide a resume, letters of recommendation, a professional writing sample, and a personal statement (see the School Psychology application webpage [https://www.uwlax.edu/grad/school-psychology/application-process/] for more detail).
- Complete an on-campus interview.
- Complete a successful criminal background check (initiated by UWL).*

*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 for Master of Science in Education

The following requirements must be completed a Master of Science in Education degree in School Psychology.

1. Complete the following 31 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPY 700</td>
<td>School Psychology: Role and Function</td>
<td>3</td>
</tr>
<tr>
<td>SPY 751</td>
<td>School-wide Practices for Academics, Behavior, and Mental Health in a MTSS Model</td>
<td>3</td>
</tr>
<tr>
<td>SPY 752</td>
<td>Academic, Behavioral, and Mental Health Interventions</td>
<td>3</td>
</tr>
<tr>
<td>SPY 753</td>
<td>Psychoeducational Assessment I</td>
<td>3</td>
</tr>
<tr>
<td>SPY 759</td>
<td>Assessment of Students with Emotional/Behavioral Needs</td>
<td>3</td>
</tr>
<tr>
<td>SPY 761</td>
<td>Orientation to Supervised Practicum in School Psychology</td>
<td>1</td>
</tr>
<tr>
<td>SPY 762</td>
<td>Supervised Practicum in School Psychology I</td>
<td>3</td>
</tr>
<tr>
<td>SPY 771</td>
<td>Application of Multicultural Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPY 775</td>
<td>Behavioral Assessment and Management</td>
<td>3</td>
</tr>
<tr>
<td>SPE 776</td>
<td>Psychological Consultation and Collaboration</td>
<td>3</td>
</tr>
<tr>
<td>SPE 501</td>
<td>Introduction to Exceptional Individuals</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

2. Maintain retention standards as described in the School Psychology Graduate Student Handbook. Students must meet academic, behavior, and professional practice standards in order to progress in the program.

Students must complete all Master of Science in Education program requirements before being enrolled in the Education Specialist part of the School Psychology Program.
Students must then complete all Educational Specialist (p. 101) program requirements to be endorsed for WI licensure and practice as a licensed school psychologist.

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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 Specialist in School Psychology: On-Campus

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, social justice, and mental health. To provide psychological services in educational settings, graduates of the School Psychology On-Campus Program must also have considerable knowledge of curriculum, special education, and pupil services.

Another unique aspect of UWL's 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 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. 100) degree first. UWL offers both degrees through the School Psychology Program.

Program requirements

Candidates who complete all requirements for the on-campus Master of Science in Education (M.S.Ed.) in school psychology may continue into the on-campus Education Specialist (Ed.S.) part of the School Psychology Program. Candidates must meet the following requirements, in addition to meeting UWL graduate degree requirements (http://catalog.uwlax.edu/graduate/degreerequirements/), to earn an Education Specialist degree in school psychology and be endorsed for a WI school psychology license:

1. Complete the M.S.Ed. in school psychology degree and program requirements.
2. 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.
3. Demonstrate content knowledge by earning a passing score on the Praxis II School Psychology content exam (test #5402), or if a passing score has not been earned after two attempts, earn a passing score on comprehensive exams. Candidates must earn a passing score on the Praxis II exam or comprehensive exams prior to their internship year.
4. Complete capstone project requirements or a thesis within seven years of beginning the program.
5. Complete a professional portfolio that demonstrates achieved competence for each of the 10 Domains of the National Association of School Psychologists (NASP) Practice Model.

Curriculum for Educational Specialist

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPY 717</td>
<td>Child and Adolescent Mental Health for School Psychologists</td>
<td>3</td>
</tr>
<tr>
<td>SPY 725</td>
<td>Research and Program Evaluation in Schools</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFN 705</td>
<td>Human Relations in School and Society</td>
<td>3</td>
</tr>
<tr>
<td>SPE 715</td>
<td>Special Education and the Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 6

Core professional training (24 credits)

Complete each of the following courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPY 756</td>
<td>Early Childhood Assessment</td>
<td>3</td>
</tr>
<tr>
<td>SPY 758</td>
<td>Psychoeducational Assessment II</td>
<td>3</td>
</tr>
<tr>
<td>SPY 763</td>
<td>Supervised Practicum in School Psychology II</td>
<td>3</td>
</tr>
<tr>
<td>SPY 764</td>
<td>Supervised Practicum in School Psychology III</td>
<td>3</td>
</tr>
<tr>
<td>SPY 772</td>
<td>Counseling and Therapy Methods</td>
<td>3</td>
</tr>
<tr>
<td>SPY 773</td>
<td>Advanced Counseling and Therapy Methods</td>
<td>3</td>
</tr>
<tr>
<td>SPY 797</td>
<td>Internship in School Psychology</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits: 24

1. Has an additional course fee.

Capstone/thesis project requirements (4-6 credits)

Select one of the following options:

Option 1 (minimum six credits): Thesis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPY 800</td>
<td>Specialist Thesis Proposal</td>
<td></td>
</tr>
<tr>
<td>SPY 801</td>
<td>Specialist Thesis</td>
<td></td>
</tr>
</tbody>
</table>

Option 2 (minimum four credits): Capstone activity

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPY 802</td>
<td>Research/Specialist Project</td>
<td></td>
</tr>
<tr>
<td>SPY 803</td>
<td>Case Conceptualization Project</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 4-6

Licensure, practicum, internship, and capstone/thesis project requirements

Candidates are endorsed for an Initial Educator License in Wisconsin after completion of all Ed.S. degree requirements, excepting the school psychology internship and the capstone project. Students are endorsed for a Professional Educator License in Wisconsin upon completion of the Ed.S. degree, which includes the internship and capstone project. Students who complete only the M.S.Ed. 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 UWL 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

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 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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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 Online Program

The UW-La Crosse School Psychology Online Program offers an integrated program of study resulting in a Master of Science in Education en route to an Education Specialist degree. This program is designed for in-service educators holding an educator license who are seeking to retrain as school psychologists and is offered online and asynchronously to allow school personnel to pursue this advanced degree and still work in the school. The combined degrees require three years of study, across fall, winter, and summer semesters, a one-year internship during the fourth year, completion of a capstone project, and the passing of either the Praxis II School Psychologist content knowledge test (#5402) or UWL comprehensive examinations. Successful completion of all program requirements for the 61 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 30-credit Master of Science in Education (p. 105) degree before completing the remaining Educational Specialist (p. 106) degree requirements.

The UW-La Crosse School Psychology Online Program is part of the Department of Psychology and the College of Arts, Social Sciences, and Humanities and is affiliated with the School of Education and Graduate & Extended Learning. Upon completion of all program requirements, students are eligible for licensure as a school psychologist in Wisconsin. Graduates of the program are employed in public schools or in educational agencies that serve public schools.

The School Psychology Online Program prepares graduate students for licensure as school psychologists through academic course work, 500 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, social justice, and mental health.

The School Psychology Online Program adheres to state and national training standards for school psychology. Graduate students develop professional competencies that meet Wisconsin Pupil Services Standards and NASP training standards (2020), which include data-based decision making; consultation and collaboration; academic interventions and instructional supports; mental and behavioral health services and interventions; school-wide practices to promote learning; services to promote safe and supportive schools; family, school, and community collaboration; equitable practices for diverse student populations; research and evidence-based practice; 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 NASP domains. 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 prepare 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 engage in authentic clinical experiences in K-12 schools and apply their evolving school psychology knowledge, skills, and dispositions while in their school site. During their third year, students spend two days per week working in 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.

Program Admissions

Information about how to apply is available on the program website (https://www.uwlax.edu/grad/school-psychology-online/application-process/). In addition to meeting all the requirements established for general graduate admissions, students must also meet School Psychology Online Program and School of Education requirements before admission to the program. These additional requirements are described on the individual program catalog pages herein. Students are also expected to participate in a virtual interview as a component of the selection process. Admission is competitive and meeting the minimum admission requirements does not guarantee admission to the program.

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. 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.

Program Length

The Master of Science in Education (M.S.Ed.) degree in the School Psychology Online Program is typically a two-year program. The Educational Specialist (Ed.S.) degree in the School Psychology Online Program is typically a two-year program. Students must complete both programs to earn the Ed.S. degree. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s plan of coursework, research or capstone project.

Graduate degrees

- School psychology - MSED: online (p. 105)
- School psychology - Ed.S.: online (p. 106)
Master of Science in Education in School Psychology: Online

The emphasis of this program is to prepare current WI educators who wish to re-train as 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, social justice, and mental health. To provide psychological services in educational settings, graduates of the School Psychology Online Program must also have considerable knowledge of curriculum, special education, and pupil services. Many of the core courses require projects which are completed in the schools.

The Master of Science in Education in school psychology is awarded after the second year of study. To practice as a licensed school psychologist, students must go on to complete the Educational Specialist degree. (p. 106) UWL offers both degrees through the School Psychology Program.

Program requirements

Admission to program

Candidates seeking WI certification as a school psychologist must complete the Master of Science in Education (M.S.Ed.) in school psychology (p. 105) requirements followed by the Education Specialist (Ed.S.) in school psychology (p. 106) requirements in order to be endorsed for licensure. UWL offers both degrees through the School Psychology Program.

In addition to meeting all UWL criteria for admission to graduate programs (p. 11), applicants to the online School Psychology Program must do the following:

• Complete an undergraduate statistics course as a prerequisite for the program.
• Provide a resume, letters of recommendation, and a personal statement (see the School Psychology application webpage (https://www.uwlax.edu/grad/school-psychology-online/application-process/) for more detail).
• Complete an online interview.
• Complete a successful criminal background check (initiated by UWL).*
• Applicants to the online School Psychology Program must hold a valid WI Educator License, have at least one year of experience in K-12 schools, and currently be employed in K-12 education.

*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. Applicants are responsible for all costs associated with their criminal background check(s).

Curriculum for Master of Science in Education

Complete the following requirements for a Master of Science in Education degree in school psychology:

1. Complete the following 30 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPY 700</td>
<td>School Psychology: Role and Function</td>
<td>3</td>
</tr>
<tr>
<td>SPY 717</td>
<td>Child and Adolescent Mental Health for School Psychologists</td>
<td>3</td>
</tr>
<tr>
<td>SPY 751</td>
<td>School-wide Practices for Academics, Behavior, and Mental Health in a MTSS Model</td>
<td>3</td>
</tr>
<tr>
<td>SPY 752</td>
<td>Academic, Behavioral, and Mental Health Interventions</td>
<td>3</td>
</tr>
<tr>
<td>SPY 757</td>
<td>Psychoeducational Assessment I</td>
<td>3</td>
</tr>
<tr>
<td>SPY 771</td>
<td>Application of Multicultural Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPY 775</td>
<td>Behavioral Assessment and Management</td>
<td>3</td>
</tr>
<tr>
<td>SPY 776</td>
<td>Psychological Consultation and Collaboration</td>
<td>3</td>
</tr>
<tr>
<td>SPE 715</td>
<td>Special Education and the Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 30

2. Maintain retention standards as described in the School Psychology Graduate Student Handbook. Students must meet academic, behavior, and professional practice standards in order to progress in the program.

Students must complete all Master of Science in Education program requirements before being enrolled in the Education Specialist part of the School Psychology Program.

Students must then complete all Educational Specialist (p. 106) program requirements to be endorsed for WI licensure and practice as a licensed school psychologist.

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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 Specialist in School Psychology: Online

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, social justice, and mental health. To provide psychological services in educational settings, graduates of the School Psychology Online Program must also have considerable knowledge of curriculum, special education, and pupil services. By the end of practica in the third year, students will have 500 hours of school psychology experience. After completing all coursework, students complete a 1200-hour internship.

To practice as a licensed school psychologist, students must complete the Educational Specialist degree, which includes completing the Master of Science in Education degree in school psychology (p. 105) first. UWL offers both degrees through the School Psychology Online Program.

### Program requirements

Candidates who complete all requirements for the online Master of Science in Education (M.S.Ed.) in school psychology may continue into the online Education Specialist (Ed.S.) part of the School Psychology Program. Candidates must meet the following requirements, in addition to meeting UWL graduate degree requirements (http://catalog.uwlax.edu/graduate/degreerequirements/), to earn an Education Specialist degree in school psychology and be endorsed for a WI school psychology license:

1. Complete the M.S.Ed. in school psychology degree and program requirements.
2. 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.
3. Demonstrate content knowledge by earning a passing score on the Praxis II School Psychology content exam (test #5402), or if a passing score has not been earned after two attempts, earn a passing score on the comprehensive exams. Candidates must earn a passing score on the Praxis II exam or comprehensive exams prior to their internship year.
4. Complete capstone project requirements within seven years of beginning the program.
5. Complete a professional portfolio that demonstrates achieved competence for each of the 10 Domains of the National Association of School Psychologists (NASP) Practice Model.

### Curriculum for Educational Specialist

#### Core professional training (27 credits)

Complete each of the following courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPY 725</td>
<td>Research and Program Evaluation in Schools</td>
<td>3</td>
</tr>
<tr>
<td>SPY 756</td>
<td>Early Childhood Assessment</td>
<td>3</td>
</tr>
<tr>
<td>SPY 758</td>
<td>Psychoeducational Assessment II</td>
<td>3</td>
</tr>
<tr>
<td>SPY 763</td>
<td>Supervised Practicum in School Psychology II</td>
<td>3</td>
</tr>
<tr>
<td>SPY 764</td>
<td>Supervised Practicum in School Psychology III</td>
<td>3</td>
</tr>
<tr>
<td>SPY 772</td>
<td>Counseling and Therapy Methods</td>
<td>3</td>
</tr>
<tr>
<td>SPY 773</td>
<td>Advanced Counseling and Therapy Methods</td>
<td>3</td>
</tr>
<tr>
<td>SPY 797</td>
<td>Internship in School Psychology</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Credits:** 27

1. Has an additional course fee.

#### Capstone project requirements (4 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPY 802</td>
<td>Research/Specialist Project</td>
<td>3</td>
</tr>
<tr>
<td>SPY 803</td>
<td>Case Conceptualization Project</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Credits:** 4

### Licensure, practicum, internship, and capstone project requirements

Candidates are endorsed for an Initial Educator License in Wisconsin after completion of all Ed.S. degree requirements, excepting the school psychology internship and the capstone project. Students are endorsed for a Professional Educator License in Wisconsin upon completion of the Ed.S. degree, which includes the internship and capstone project. Students who complete only the M.S.Ed. 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 UWL 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 a research/specialist project and a case conceptualization project. 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 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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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.)
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 (http://catalog.uwlax.edu/graduate/programrequirements/therapeuticrecreation/).

Program length

The Master of Science (M.S.) in Recreation Management Program is typically a two-year program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student's plan of coursework, research or capstone project.

2023-24 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.
Brian Kumm-Schaley, Ph.D.
Dan Plunkett, Ph.D.

Assistant Professor
Namyun Kil, Ph.D.

Associate Teaching Professor
Tara DeLong, M.S.
Lisa Savarese, M.S.

Assistant Teaching Professor
Lindsey Kirschbaum, M.S.

Administrative Support
Janet Craig

Graduate degree
- Recreation management - MS (p. 108)

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
"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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 301</td>
<td>Leadership and Programming in Recreation or demonstrated experience in recreation programming</td>
<td>3</td>
</tr>
<tr>
<td>STAT 145</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>7</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 520</td>
<td>Revenue Management in Leisure Enterprises</td>
<td>3</td>
</tr>
<tr>
<td>REC 701</td>
<td>Philosophical Foundations of Leisure, Play and Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 731</td>
<td>Data Evaluation and Management in Parks and Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 735</td>
<td>Management Topics in Recreation and Leisure Services</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

1 Online course.

Capstone (6 credits)

Select one of the options below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option A - thesis</td>
<td>Research: Master's Thesis</td>
<td></td>
</tr>
<tr>
<td>REC 799</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option B - graduate project</td>
<td>Graduate Project in Recreation</td>
<td></td>
</tr>
<tr>
<td>REC 761</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option C - internship</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Elective courses (12 credits)

Select 12 credits from the lists below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-campus electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REC 500</td>
<td>Planning for Park and Recreation Facilities</td>
<td></td>
</tr>
<tr>
<td>REC 502</td>
<td>Risk Management in Leisure Service Organizations</td>
<td></td>
</tr>
<tr>
<td>REC 504</td>
<td>Budgeting in the Recreation Enterprise</td>
<td></td>
</tr>
<tr>
<td>REC 505</td>
<td>Sustainable Tourism Development</td>
<td></td>
</tr>
<tr>
<td>REC 515</td>
<td>Camp Administration</td>
<td></td>
</tr>
<tr>
<td>REC 545</td>
<td>Meetings, Conventions, and Event Planning</td>
<td></td>
</tr>
<tr>
<td>REC 795</td>
<td>Independent Study in Recreation</td>
<td></td>
</tr>
<tr>
<td>REC 797</td>
<td>Special Projects in Recreation Management</td>
<td></td>
</tr>
<tr>
<td>Online electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REC 732</td>
<td>Human Development and Group Dynamics</td>
<td></td>
</tr>
<tr>
<td>REC 733</td>
<td>Diversity and Social Justice in Recreation Management</td>
<td></td>
</tr>
<tr>
<td>REC 734</td>
<td>Experience Management</td>
<td></td>
</tr>
<tr>
<td>REC 736</td>
<td>Collaborative Approaches to Recreation and Leisure Service Delivery</td>
<td></td>
</tr>
<tr>
<td>REC 737</td>
<td>Contemporary Issues in Recreation Management</td>
<td></td>
</tr>
<tr>
<td>REC 738</td>
<td>Capstone Seminar in Recreation Management</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

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-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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate
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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.)
Rec - Recreation Management: Professional Development Graduate Program

Recreation Management: Professional Development Program
Director: Kate Evans
2042 Health Science Center; 608.785.8210
Email: kevans@uwla.edu

www.uwla.edu/conted/rec-management-ms/ (https://www.uwla.edu/conted/rec-management-ms/)

The Recreation Management: Professional Development 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.

Program length

The Master of Science (M.S.) in Recreation Management: Professional Development Emphasis Program is typically a two-year program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student's plan of coursework, research or capstone project.

2023-24 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.

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Dan Plunkett, Ph.D.

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W. Thomas Means, Ph.D.
Jennifer Taylor, Ph.D.

Associate Teaching Professor
Tara DeLong, M.S.
Lisa Savarese, M.S.

Assistant Teaching Professor
Jon Evans, M.S.

Lindsey Kirschbaum, M.S.

Administrative Support
Janet Craig

Graduate degree

Recreation Management: Professional Development Emphasis - Master of Science

Program requirements

Admission

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
• An overall undergraduate grade point 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.

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
  • 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
  • One letter of recommendation reflective of the applicant’s professional and/or academic experiences
  • 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)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 701</td>
<td>Philosophical Foundations of Leisure, Play and Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 520</td>
<td>Revenue Management in Leisure Enterprises</td>
<td>3</td>
</tr>
<tr>
<td>REC 736</td>
<td>Collaborative Approaches to Recreation and Leisure Service Delivery</td>
<td>3</td>
</tr>
<tr>
<td>REC 735</td>
<td>Management Topics in Recreation and Leisure Services</td>
<td>3</td>
</tr>
<tr>
<td>REC 731</td>
<td>Data Evaluation and Management in Parks and Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 733</td>
<td>Diversity and Social Justice in Recreation Management</td>
<td>3</td>
</tr>
<tr>
<td>REC 732</td>
<td>Human Development and Group Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>REC 734</td>
<td>Experience Management</td>
<td>3</td>
</tr>
<tr>
<td>REC 737</td>
<td>Contemporary Issues in Recreation Management</td>
<td>3</td>
</tr>
<tr>
<td>REC 738</td>
<td>Capstone Seminar in Recreation Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

**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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**Sample degree plan**

Course schedule by semester:

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
<th>Summer</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 701</td>
<td>3</td>
<td>REC 520</td>
<td>3</td>
<td></td>
<td>REC 733</td>
<td>3</td>
</tr>
<tr>
<td>REC 731</td>
<td>3</td>
<td></td>
<td>REC 732</td>
<td>3</td>
<td>REC 734</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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<td></td>
<td><strong>6</strong></td>
<td></td>
<td><strong>6</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 735</td>
<td>1-3</td>
<td>REC 737</td>
<td>1-3</td>
<td></td>
</tr>
<tr>
<td>REC 736</td>
<td>3</td>
<td>REC 738</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>6</td>
<td></td>
<td><strong>6</strong></td>
<td></td>
</tr>
</tbody>
</table>
RTH - Recreational Therapy  
Graduate Program

Recreational Therapy Graduate Program  
Director: Kate Evans  
2042 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 Recreational Therapy 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. 108).

Program length

The Master of Science (M.S.) in Recreational Therapy Program is typically a two-year program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s plan of coursework, research or capstone project.

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Lindsey Kirschbaum, M.S.

Administrative Support
Janet Craig

Graduate degree

- Recreational therapy - MS (p. 113)

Recreational Therapy - Master of Science

The Master of Science in Recreational Therapy 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 Recreational Therapy 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
Program requirements

Admission

Students without a previous background in recreational therapy, 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 recreational therapy will only be admitted in the Spring 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 recreational therapy.

Prerequisite courses (or equivalent knowledge):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESS 205</td>
<td>Human Anatomy and Physiology for Exercise</td>
<td>3</td>
</tr>
<tr>
<td>PSY 204</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 212</td>
<td>Lifespan Development</td>
<td>3</td>
</tr>
<tr>
<td>RTH 376</td>
<td>Assessment and Treatment Planning in Recreational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>STAT 145</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

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 376 which must be completed in the first semester of the graduate program).

Prerequisite competency:

Knowledge of and experience with a disability group in a recreational therapy 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 recreational therapy 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 recreational therapy). 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 recreational therapy. The student will be classified either as a

- Student without a previous background in recreational therapy or
- Student with a previous background (certification eligible) in recreational therapy.

Program of study for a student with a background (certification eligible) in recreational therapy:

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 Recreational Therapy Program Director.

Required courses (18 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTH 593</td>
<td>Advancing the Recreational Therapy Profession</td>
<td>3</td>
</tr>
<tr>
<td>RTH 701</td>
<td>Philosophical Foundations of Leisure, Play and Recreation</td>
<td>3</td>
</tr>
<tr>
<td>RTH 720</td>
<td>Research Methods for Recreation, Parks, and Leisure</td>
<td>3</td>
</tr>
<tr>
<td>RTH 730</td>
<td>Advanced Clinical Aspects in Recreational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>RTH 740</td>
<td>Evidence-Based Practice in Recreational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>RTH 750</td>
<td>Authentic Leadership and Clinical Supervision in Recreational Therapy</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18

Capstone Experience

Students with a recreational therapy background must select one of two research options as the capstone experience to their graduate program. The options are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 799</td>
<td>Research: Master’s Thesis</td>
<td>6</td>
</tr>
<tr>
<td>REC 761</td>
<td>Graduate Project in Recreation</td>
<td>3-6</td>
</tr>
</tbody>
</table>

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 Recreational Therapy Program Director.

Program of study for a student without a previous background in recreational therapy:

SPRING 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 Recreational Therapy Program Director.
### Required courses (36 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTH 556</td>
<td>Program Design and Administration of Recreational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>RTH 570</td>
<td>Recreational Therapy Processes and Facilitation Techniques</td>
<td>3</td>
</tr>
<tr>
<td>RTH 591</td>
<td>Workshops in Recreational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>RTH 592</td>
<td>Clinical Education Experience in Recreational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>RTH 593</td>
<td>Advancing the Recreational Therapy Profession</td>
<td>3</td>
</tr>
<tr>
<td>RTH 700</td>
<td>Internship in Recreational Therapy</td>
<td>6</td>
</tr>
<tr>
<td>RTH 701</td>
<td>Philosophical Foundations of Leisure, Play and Recreation</td>
<td>3</td>
</tr>
<tr>
<td>RTH 720</td>
<td>Research Methods for Recreation, Parks, and Leisure</td>
<td>3</td>
</tr>
<tr>
<td>RTH 730</td>
<td>Advanced Clinical Aspects in Recreational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>RTH 740</td>
<td>Evidence-Based Practice in Recreational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>RTH 750</td>
<td>Authentic Leadership and Clinical Supervision in Recreational Therapy</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits** 36

At the discretion of the Recreational Therapy Program Director, previously taken equivalent undergraduate courses may not have to be repeated at 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 recreational therapy 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
Special Education Certificate
Chair: Patricia Markos, Ph.D., CRC
269 Morris Hall; 608.785.5087
Email: pmarkos@uwlax.edu

Educational Leadership Program:
MSED Professional Development: Educational Leadership Emphasis
MSED Professional Development: Educational Leadership & Director of Instruction Emphasis
Educational Leadership Certificate
Director of Instruction Add-On Certification
Interim Program Director: Ann Yehle
266 Morris Hall; 608.785.8139
Email: ayehle@uwlax.edu

Reading Program:
MSED Reading with Non-Certification (does not lead to a teaching license)
MSED Reading with Reading Teacher (1316) Emphasis
MSED Reading with Reading Specialist (5017) Emphasis
MSED Reading with Reading Teacher (1316) and Reading Specialist (5017) Emphasis
Reading Teacher (1316) Certificate
Reading Specialist (5017) Add-on Certification
Program Director: Alyssa Harlan
264 Morris Hall
Email: aharlan@uwlax.edu

TESOL Program:
Teaching English to Speakers of Other Languages (TESOL) Certificate
Program Director: Deanna Wiatt
267 Morris Hall
Email: dwiatt@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 impactful 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 you as an uplifting, empathetic, and inclusive educator so you 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 you with practical life-long skills;
• Allow you to enable children so they can 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 you become better at serving others.

By valuing student achievement, we:

• Improve your 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 by understanding other people’s perspectives;
• 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, being empathetic, questioning, reflecting 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/)
Criminal background check
(apply 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).

Program length
The Master of Science in Education (M.S.Ed.) professional development programs are typically two-year programs. The Master of Science in Education (M.S.Ed.) in reading programs are typically two-year programs. The graduate certificates are typically one-year programs. Number of credits required varies by program. Program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s plan of coursework, research or capstone project.

2023-24 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) Chair
Patricia Markos, Ph.D.

IPSE Administrative Support
Cindy George, Senior Marketing Specialist
Jenny Holm, Outreach Specialist

Program Directors
Ann Yehle, Ph.D., Interim Director of Educational Leadership/Director of Instruction Program
Alyssa Harlan, Director of Graduate Reading Program

Adjunct Faculty
Kimberly Edwards
Melissa Ender
Bill Gillespie, Ph.D.
Carla Hacker
Jeffrey Hansen
Catherine McColllister
Bonnie Roscovius
Kari Schultz
Tim Sprain
Stephanie Sullivan

Graduate degrees

• Professional Development Program:
  • Professional development: educational leadership emphasis - MSED (p. 119)
  • Professional development: educational leadership and director of instruction emphasis - MSED (p. 120)
  • Professional development: learning community emphasis - MSED (p. 117)

• Reading Program:
  • Reading - MSED (non-certification) (p. 122)
  • Reading: reading teacher (1316) emphasis - MSED (p. 123)
  • Reading: reading specialist (5017) emphasis - MSED (p. 125)
  • Reading: reading teacher (1316) and reading specialist (5017) emphasis - MSED (p. 126)

Certificates

• Educational leadership (5051) - certificate program (p. 128)
• Professional learning community - certificate program (p. 128)
• Reading teacher (1316) - certificate program (p. 129)
• Special education (2081) - certificate program (p. 129)
• Teaching English to speakers of other languages (TESOL) (1395) - certificate program (p. 130)

Add-on certifications

• Director of instruction (5010) - add-on certification (p. 131)
• Reading specialist (5017) - add-on certification (p. 131)

Professional Development: Learning Community Emphasis - Master of Science in Education

The Master of Science in Education (M.S.Ed.) 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)**

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<th>Code</th>
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<th>Credits</th>
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<td>EDU 602</td>
<td>Learning in Community II: Exploration</td>
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<tr>
<td>EDU 611</td>
<td>Technology in Education I: Introduction</td>
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</tr>
<tr>
<td>EDU 612</td>
<td>Technology in Education II: Exploration</td>
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<tr>
<td>EDU 621</td>
<td>Best Practice Pedagogy I: Introduction</td>
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<tr>
<td>EDU 622</td>
<td>Best Practice Pedagogy II: Exploration</td>
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<td>EDU 631</td>
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<td>Introduction</td>
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<td>Exploration</td>
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<td>Educational Research II: Exploration</td>
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<td>Education II: Exploration</td>
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<tr>
<td>EDU 662</td>
<td>Teacher Leadership II: Exploration</td>
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<td>EDU 703</td>
<td>Learning in Community III: Integration</td>
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</tr>
<tr>
<td>EDU 704</td>
<td>Learning in Community IV: Action</td>
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</tr>
<tr>
<td>EDU 713</td>
<td>Technology in Education III: Integration</td>
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</tr>
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<td>EDU 714</td>
<td>Technology in Education IV: Action</td>
<td>1</td>
</tr>
<tr>
<td>EDU 723</td>
<td>Best Practice Pedagogy III: Integration</td>
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</tr>
<tr>
<td>EDU 724</td>
<td>Best Practice Pedagogy IV: Action</td>
<td>1</td>
</tr>
<tr>
<td>EDU 733</td>
<td>Curriculum Development and Assessment III:</td>
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<tr>
<td></td>
<td>Integration</td>
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<td>EDU 734</td>
<td>Curriculum Development and Assessment IV:</td>
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<td>Action</td>
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<td>Educational Research III: Conduct</td>
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<tr>
<td>EDU 744</td>
<td>Educational Research IV: Publication</td>
<td>2</td>
</tr>
<tr>
<td>EDU 753</td>
<td>Democracy, Diversity and Social Justice in</td>
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<td></td>
<td>Education III: Integration</td>
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</tr>
<tr>
<td>EDU 754</td>
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<td></td>
<td>Education IV: Action</td>
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</tr>
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<td>EDU 763</td>
<td>Teacher Leadership III: Integration</td>
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</tr>
<tr>
<td>EDU 764</td>
<td>Teacher Leadership IV: Action</td>
<td>1</td>
</tr>
</tbody>
</table>

**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 (790, 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://
Online delivery frees more weekends for other commitments. The community also meets for five two summer semesters. The result is a master's degree in 18 months. The online format combines three full semesters of online learning with 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.
- One of the following:
  - 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 fewer than 12 semester credits of graduate study at another accredited graduate institution
- Copy of applicant's teacher license
- Provided a resume that documents at least two years of full-time teaching in a K-12 setting and current employment in a K-12 school
- Completed 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)

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>EDU 765</td>
<td>Introduction to Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDU 766</td>
<td>The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDU 767</td>
<td>Data-based Decision Making for Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDU 768</td>
<td>Supervision and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDU 769</td>
<td>Leadership and Cultural Competence</td>
<td>3</td>
</tr>
<tr>
<td>EDU 770</td>
<td>School Law</td>
<td>3</td>
</tr>
<tr>
<td>EDU 771</td>
<td>School Finance and Resource Allocation</td>
<td>3</td>
</tr>
<tr>
<td>EDU 772</td>
<td>Inclusive Pedagogical Practices I</td>
<td>2</td>
</tr>
<tr>
<td>EDU 782</td>
<td>Inclusive Pedagogical Practices II</td>
<td>1</td>
</tr>
</tbody>
</table>
Students must also complete one of the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 743</td>
<td>Educational Research III: Conduct</td>
<td>2</td>
</tr>
<tr>
<td>EDU 744</td>
<td>Educational Research IV: Publication</td>
<td>2</td>
</tr>
<tr>
<td>EDU 776</td>
<td>Thesis</td>
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<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>32</strong></td>
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</table>

**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)
- Completion of DPI employment verification form (https://dpi.wi.gov/sites/default/files/imce/licensing/f1613.pdf) documenting at least three years of teaching at the K-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.

1 Out of state license holders may contact the School of Education Certification Officer (educatorlicensing@uw腋ivax edu) for assistance with applying for an equivalent WI teaching license. Candidates must hold an initial WI license prior to endorsement for the 5051 license.

**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.uw腋ivax.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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uw腋ivax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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.)

**Professional Development: Educational Leadership and Director of Instruction Emphasis - MSED**

The Master of Science in Education (M.S.Ed.) 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.
• One of the following:
  • 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 fewer than 12 semester credits of graduate study at another accredited graduate institution
• Copy of applicant's teacher license
• Provided a resume that documents at least one year of full-time teaching in a K-12 setting and current employment in a K-12 school
• Completed 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)

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<td>EDU 765</td>
<td>Introduction to Educational Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

The WI Department of Public Instruction (DPI) requires that candidates for admission to the Professional Development: Educational Leadership and Director of Instruction Emphasis, a candidate for the program must have:

Students must also complete one of the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 766</td>
<td>The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDU 767</td>
<td>Data-based Decision Making for Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDU 768</td>
<td>Supervision and Evaluation</td>
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<td>EDU 769</td>
<td>Leadership and Cultural Competence</td>
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<td>School Law</td>
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<td>School Finance and Resource Allocation</td>
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<td>EDU 772</td>
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<td>EDU 782</td>
<td>Inclusive Pedagogical Practices II</td>
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<td>EDU 773</td>
<td>Practicum in the Principalship and Practicum Seminar</td>
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<td>EDU 641</td>
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<td>EDU 774</td>
<td>Curriculum and Leadership</td>
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<td>EDU 775</td>
<td>Practicum for the Director of Instruction and Seminar</td>
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Total Credits 38

Program completion
Eligibility for Educational Leadership (5051) and Director of Instruction (5010) 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)
• Completion of DPI employment verification form (https://dpi.wi.gov/sites/default/files/imce/licensing/f1613.pdf) documenting at least three years of teaching at the K-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.

1 Out of state license holders may contact the School of Education Certification Officer (educatorlicensing@uwlatex.edu) for assistance with applying for an equivalent WI teaching license. Candidates must hold an initial WI license prior to endorsement for the 5051 and 5010 licenses.

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
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)

<table>
<thead>
<tr>
<th>Code</th>
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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...
After being admitted to the program of one's choice, candidates for a University 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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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

- Provide a resume that documents at least one year of full-time regular teaching experiences in K-12 classrooms and current teaching position in a K-12 classroom
- Provide copies of teaching license or certificate
- Have one of the following:
  - 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 fewer than 12 semester credits of graduate study at another accredited graduate institution
- 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)

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<td>RDG 715</td>
<td>Children’s and Adolescent Literature</td>
<td>3</td>
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<tr>
<td>Master’s thesis (six credits required)</td>
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</table>

**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
- Hold a WI Tier II (or higher) teaching license
- Completion of DPI employment verification form (https://dpi.wi.gov/sites/default/files/imce/licensing/11613.pdf) documenting at least two years of employment as the teacher of record in K-12 schools

1 Out of state license holders may contact the School of Education Certification Officer (educatorlicensing@uwlaux.edu) for assistance with applying for an equivalent WI teaching license. Candidates must hold a WI teaching license in order to be endorsed for a Reading Teacher (1316) license.

**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 graduate programs require more than 30 graduate credits. Please review the individual program requirements (http://catalog.uwlaux.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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlaux.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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:

- Provide a resume that documents at least two years of full-time regular teaching experiences in K-12 classroom and current teaching position in a K-12 classroom.
- Provide copies of teaching licenses or certificates
- Have a Reading Teacher (1316) license or equivalent
- Have one of the following:
  - 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 fewer than 12 semester credits of graduate study at another accredited graduate institution
- 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).

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<td>RDG 799</td>
<td>Action Research in Literacy</td>
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Reading electives 12

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Other reading course credits 2

<table>
<thead>
<tr>
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Total Credits 30

1 Out of state license holders may contact the School of Education Certification Officer (educatorlicensing@uwlae.edu) for assistance with applying for an equivalent WI license. Candidates must hold a WI license prior to endorsement for the 5017 license.

2 MSED Reading Specialist (5017) candidates may transfer up to 12 credits from their Reading Teacher (1316) preparation program provided that the credits were earned within seven years of the MSED Reading Specialist (5017) Program completion date.
Program completion and eligibility for certification

Eligibility for Reading Specialist (5017) certification is contingent upon:

1. Passing score on the Foundations of Reading Test
2. Completion of DPI employment verification form (https://dpi.wi.gov/sites/default/files/imce/licensing/f1613.pdf) documenting at least six semesters as the teacher of record, or at least six semesters as a school counselor, school psychologist, or school social worker and 540 hours of classroom teaching experience in K-12 schools

In addition, 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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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-L 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:

- Provide a resume that documents at least one year of full-time regular teaching experiences in K-12 classrooms and current teaching position in a K-12 classroom.
- Provide copies of teaching license or certificate.
- Have one of the following:
  - 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 fewer than 12 semester credits of graduate study at another accredited graduate institution
- 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)

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</table>

Total Credits: 36

Program completion and eligibility for certification

Eligibility for Reading Teacher (1316) and Reading Specialist (5017) certification is contingent upon:

- Successful completion of all program requirements
- Cumulative graduate grade point average (GPA) of at least 3.0
- Passing score on the WI Foundations of Reading Test
- Completion of DPI employment verification form (https://dpi.wi.gov/sites/default/files/imce/licensing/f1613.pdf) indicating at least six semesters of employment as the teacher of record in K12 schools

In addition, Reading Specialist (5017) candidates must have earned a master's degree with an emphasis in reading.

1 Out of state license holders may contact the School of Education Certification Officer (educatorlicensing@uwlatex.edu) for assistance with applying for an equivalent WI teaching license.

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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 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. Provide a resume that documents at least one year of full-time employment in a K-12 setting and current position in a K-12 school
6. Copy of applicant’s teacher, administrator, or professional license
7. 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>EDU 765</td>
<td>Introduction to Educational Leadership</td>
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</tr>
<tr>
<td>EDU 766</td>
<td>The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDU 767</td>
<td>Data-based Decision Making for Instruction</td>
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</tr>
<tr>
<td>EDU 768</td>
<td>Supervision and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDU 769</td>
<td>Leadership and Cultural Competence</td>
<td>3</td>
</tr>
<tr>
<td>EDU 770</td>
<td>School Law</td>
<td>3</td>
</tr>
<tr>
<td>EDU 771</td>
<td>School Finance and Resource Allocation</td>
<td>3</td>
</tr>
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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))
- Completed DPI employment verification form (https://dpi.wi.gov/sites/default/files/imce/licensing/f1613.pdf) documenting completion of at least three years of employment as described above in K-12 schools

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.

1 Out of state license holders may contact the School of Education Certification Officer (educatorlicensing@uwlax.edu) for assistance with applying for an equivalent WI teaching license. Candidates must hold an initial WI license prior to endorsement for the 5051 license.

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

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>EDU 735</td>
<td>Foundations of Professional Learning Communities</td>
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<tr>
<td>EDU 736</td>
<td>Assessments, Grading and Professional Learning Communities</td>
<td>3</td>
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<tr>
<td>EDU 737</td>
<td>Teacher Leadership: Professional Learning Communities</td>
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<tr>
<td>EDU 738</td>
<td>Professional Learning Community in the Content Areas</td>
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<td></td>
<td>Total Credits</td>
<td>12</td>
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</tbody>
</table>

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

- Hold a bachelor's degree from an accredited institution in education and provide an official transcript
- Provide a resume that documents at least one year of full-time regular teaching experience in a K-12 classroom and current teaching position in a K-12 classroom
- Provide copies of teaching license or certificate
- Have one of the following:
  - 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 fewer than 12 semester credits of graduate study at another accredited graduate institution

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).

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 or holding a lifetime teaching license
- Hold a Tier II (or higher) WI teaching license
- Completed DPI employment verification form (https://dpi.wi.gov/sites/default/files/imce/licensing/f1613.pdf) indicating at least two years of employment as the teacher of record in K-12 schools

Special Education Certificate

Program requirements

Admission

Applicants for admission must:

- Hold a bachelor's degree in education from an accredited institution and provide an official transcript
- Provide copy of teaching license or certificate
- Provide a resume that documents at least one year of full-time regular teaching experience in a K-12 classroom and current teaching position in a K-12 classroom
• Meet 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.

• Complete a successful criminal background check (CBC) 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

The graduate Special Education Certificate Program is aligned with InTASC Teacher Standards and Council on Exceptional Children (CEC) Standards.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tr>
<td>RDG 704</td>
<td>Emergent Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDU 755</td>
<td>Introduction to Special Education for In-Service Teachers (Introduction to Special Education for In-Service Teachers)</td>
<td>3</td>
</tr>
<tr>
<td>EDU 757</td>
<td>Co-Planning and Co-Teaching in Inclusive Learning Environments (Co-Planning and Co-Teaching in Inclusive Learning Environments)</td>
<td>3</td>
</tr>
<tr>
<td>EDU 758</td>
<td>Advanced Special Education Assessment (Advanced Special Education Assessment)</td>
<td>3</td>
</tr>
<tr>
<td>EDU 759</td>
<td>Advanced Methods: Teaching Students with Disabilities (Advanced Methods: Teaching Students with Disabilities)</td>
<td>3</td>
</tr>
<tr>
<td>EDU 760</td>
<td>Classroom Management and Positive Behavioral Practices (Classroom Management &amp; Positive Behavioral Practices)</td>
<td>3</td>
</tr>
<tr>
<td>EDU 761</td>
<td>Practicum in Special Education (Practicum in Special Education)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits**: 24

### Program completion and eligibility for certification

**Eligibility for K-12 Cross-Categorical Special Education (2081) certification is contingent upon:**

• Completion of all graduate program requirements
• Cumulative graduate grade point average (GPA) of at least 3.0
• Meeting all WI state statutory requirements for a teaching license (via existing WI initial teaching license)

• Completed DPI employment verification form (https://dpi.wi.gov/sites/default/files/imce/forms/doc/f1618.doc) indicating at least 3 years of employment as the teacher of record in K-12 schools

1 Students who do not meet the 3.0 GPA requirement and are seeking readmission through appeal (http://catalog.uwlax.edu/graduate/academicpolicies/academiceligibility/#probation-retention) must demonstrate content knowledge by earning a passing score of a 146 on the Praxis II test (test code 5146).

2 Out of state license holders may contact the School of Education Certification Officer (educatorlicensing@uwlax.edu) for assistance with applying for an equivalent WI teaching license.

### Teaching English to Speakers of Other Languages (TESOL) Certificate

The graduate Teaching English to Speakers of Other Languages (TESOL) Certificate Program is designed to prepare currently-licensed teachers to effectively, purposefully, and passionately teach English learners (EL). Teachers who complete this certificate program will be endorsed for a Wisconsin ESL license. They will also be well-qualified to teach English learners in a way that is knowledgeable and respectful of language and cultural difference, which seeks to add to rather than replace cultural and linguistic knowledge, and which ensures the learning of language and content for each EL they encounter.

### Program requirements

#### Admission

Applicants to these programs must

• Hold a bachelor's degree from an accredited institution in education and provide an official transcript
• Provide a resume that documents at least one year of full-time regular teaching experience in a K-12 classroom and current teaching position in a K-12 classroom
• Provide copies of teaching license or certificate
• Have one of the following:
  • 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 fewer than 12 semester credits of graduate study at another accredited graduate institution
• Provide documentation of prior learning in a world language other than English
• 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

The graduate TESOL Certificate Program is aligned with InTASC Teacher Standards, Wisconsin DPI TESOL Standards, and CAEP/TESOL (ESL) Standards.

(18 credits)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ENG 534</td>
<td>Introduction to Linguistics: Theory and Application</td>
<td>3</td>
</tr>
<tr>
<td>EDU 610</td>
<td>Second Language Acquisition: Research and Applications</td>
<td>3</td>
</tr>
<tr>
<td>EDU 645</td>
<td>Teaching with(in) Culture</td>
<td>3</td>
</tr>
<tr>
<td>EDU 680</td>
<td>TESOL Methods I: Language Learning through Content</td>
<td>3</td>
</tr>
<tr>
<td>EDU 681</td>
<td>TESOL Methods II: Teaching and Assessing Language</td>
<td>3</td>
</tr>
<tr>
<td>EDU 780</td>
<td>TESOL Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 18

Program completion and eligibility for certification

Eligibility for ESL-English as a Second Language (1395) certification is contingent upon:

- Completion of all graduate program requirements
- Cumulative graduate grade point average (GPA) of at least 3.0
- Meeting all Wisconsin statutory requirements for a teaching license
- Completed DPI employment verification form (https://dpi.wi.gov/sites/default/files/imce/licensing/f1613.pdf) indicating at least 3 years of employment as the teacher of record in K-12 schools

1 Students who do not meet the 3.0 GPA requirement and are seeking readmission through appeal (http://catalog.uwlax.edu/graduate/academicpolicies/academiceligibility/#probation-retention) must demonstrate content knowledge by earning a passing score on the English to Speakers of Other Languages Praxis II test (test code 5362).

2 Out of state license holders may contact the School of Education Certification Officer (educatorlicensing@uwlax.edu) for assistance with applying for an equivalent WI teaching license.

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. Provide a resume that documents at least one year of full-time experience in a K-12 setting and current position in a K-12 setting
6. 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/tepdl/licensing/types/administrator/) Director of Instruction (5010) license:

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>EDU 774</td>
<td>Curriculum and Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDU 775</td>
<td>Practicum for the Director of Instruction and Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Program completion

Eligibility for the Director of Instruction (5010) 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.

1 Out of state license holders may contact the School of Education Certification Officer (educatorlicensing@uwlax.edu) for assistance with applying for an equivalent WI teaching license.

Reading Specialist Add-On Certification

Admission

Applicants to this program must
• Provide a resume that documents at least three years of full-time regular teaching experience in a K-12 classroom and current teaching position in a K-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 UW):

**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 UW 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**

<table>
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<tbody>
<tr>
<td>RDG 718</td>
<td>Guiding and Directing a Schoolwide Reading/Literacy Program</td>
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</tr>
<tr>
<td>RDG 780</td>
<td>Reading Specialist Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

**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 WI Foundations of Reading Test
• Completed DPI employment verification form (https://dpi.wi.gov/sites/default/files/imce/licensing/f1613.pdf) documenting completion of at least six semesters of employment of teaching experience in K-12 schools
• Reading Specialist (5017) candidates must have earned a master’s degree with an emphasis in reading

Out of state license holders may contact the School of Education Certification Officer (educatorlicensing@uwf.ax) for assistance with applying for an equivalent WI license. Candidates must hold a WI license prior to endorsement for the 5017 license.
SAA - Student Affairs Administration in Higher Education Graduate Program

Department of Student Affairs Administration in Higher Education
Department Chair: Tori Svoboda

Student Affairs Administration in Higher Education M.S.Ed. Program
M.S.Ed. Program Director: Becki Elkins
345 Morris Hall; 608.785.6489
Email: belkins@uw lax.edu

SAA Department: www.uwlax.edu/student-affairs-admin/ (https://www.uwlax.edu/grad/student-affairs-administration/)  
M.S.Ed. 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 in 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:
- Campus-based blended
- Online (asynchronous every year, blended if enrollment warrants)

The campus-based blended 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. The program follows the CAS Standards for master’s level graduate preparation programs in student affairs. The program also requires at least half-time employment in academic or student affairs while enrolled.

Note: Enrollment in SAA courses is restricted to graduate students admitted to the program, unless given special permission by the SAA Department Chair.

Program length

The Master of Science in Education (M.S.Ed.) in Student Affairs Administration in Higher Education Program is typically a two-year program. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time (if approved by program) or due to the requirements of an individual student’s plan of coursework, research or capstone project.

2023-24 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/jvian den/)

Associate Professor
Becki Elkins, Ph.D. (https://www.uwlax.edu/profile/belkins/)
Adele Lozano, Ph.D. (http://www.uwlax.edu/profile/alozano/)
Tori Svoboda, Ed.D. (http://www.uwlax.edu/profile/tsvoboda/)

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.

Additional Staff

Hanna Dovalina (https://www.uwlax.edu/profile/hdovalina/), Graduate Writing Consultant & Program Manager
Sharon Tellier (http://www.uwlax.edu/profile/stellier/), Academic Department Associate

Graduate degrees

- Student affairs administration in higher education - MSED: blended (p. 133)
- Student affairs administration in higher education - MSED: online (p. 135)

Student Affairs Administration in Higher Education: Blended - 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. Some students meet this requirement by being selected for a relevant graduate assistantship or internship as part of the admission process to the academic program. Other students may meet this requirement by working full-time in the field. 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

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<tbody>
<tr>
<td>SAA 700</td>
<td>Professional and Ethical Foundations in Student Affairs ¹</td>
<td>3</td>
</tr>
<tr>
<td>SAA 702</td>
<td>Student Development Theory</td>
<td>3</td>
</tr>
<tr>
<td>SAA 704</td>
<td>Leadership and Organizational Theories</td>
<td>3</td>
</tr>
<tr>
<td>SAA 705</td>
<td>Higher Education Values, Philosophy, and History</td>
<td>3</td>
</tr>
<tr>
<td>SAA 706</td>
<td>Advising and Supporting</td>
<td>3</td>
</tr>
<tr>
<td>SAA 708</td>
<td>Social Justice and Inclusion</td>
<td>3</td>
</tr>
<tr>
<td>SAA 730</td>
<td>Law, Policy, and Governance in Student Affairs</td>
<td>3</td>
</tr>
<tr>
<td>SAA 760</td>
<td>Administration of Human and Organizational Resources</td>
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Assessment and research

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<td>SAA 765</td>
<td>Assessment and Evaluation in Student Affairs</td>
<td>3</td>
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<tr>
<td>SAA 780</td>
<td>Capstone Research and Proposal</td>
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<tr>
<td>SAA 790</td>
<td>Capstone Seminar in Student Affairs</td>
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Topics/Field experience

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<tr>
<td>SAA 720</td>
<td>Special Topics in Student Affairs Administration (two different 7-week special topics courses are required)</td>
<td>2</td>
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<tr>
<td>SAA 775</td>
<td>Student Affairs Practicum</td>
<td>1</td>
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</tbody>
</table>

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 SAA Program website (https://www.uwlax.edu/student-affairs-admin/).

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.
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. Some students meet this requirement by being selected for a relevant graduate assistantship or internship as part of the admission process to the academic program. Other students may meet this requirement by working full-time in the field. 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAA 700</td>
<td>Professional and Ethical Foundations in Student Affairs</td>
<td>3</td>
</tr>
<tr>
<td>SAA 702</td>
<td>Student Development Theory</td>
<td>3</td>
</tr>
<tr>
<td>SAA 704</td>
<td>Leadership and Organizational Theories</td>
<td>3</td>
</tr>
<tr>
<td>SAA 705</td>
<td>Higher Education Values, Philosophy, and History</td>
<td>3</td>
</tr>
<tr>
<td>SAA 706</td>
<td>Advising and Supporting</td>
<td>3</td>
</tr>
<tr>
<td>SAA 708</td>
<td>Social Justice and Inclusion</td>
<td>3</td>
</tr>
<tr>
<td>SAA 730</td>
<td>Law, Policy, and Governance in Student Affairs</td>
<td>3</td>
</tr>
<tr>
<td>SAA 760</td>
<td>Administration of Human and Organizational Resources</td>
<td>3</td>
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Assessment and research

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>SAA 765</td>
<td>Assessment and Evaluation in Student Affairs</td>
<td>3</td>
</tr>
<tr>
<td>SAA 780</td>
<td>Capstone Research and Proposal</td>
<td>3</td>
</tr>
<tr>
<td>SAA 790</td>
<td>Capstone Seminar in Student Affairs Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Topics/Field experience

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAA 720</td>
<td>Special Topics in Student Affairs Administration (two different 7-week special topics courses are required)</td>
<td>2</td>
</tr>
<tr>
<td>SAA 775</td>
<td>Student Affairs Practicum</td>
<td>1</td>
</tr>
</tbody>
</table>

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 (https://www.uwlax.edu/student-affairs-admin/).

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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate
& Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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@uw lax.edu

Student Affairs Administration and Leadership Ed.D. Program
Director: Adele Lozano
345 Morris Hall; 608.785.6871
Email: alozano@uw lax.edu

SAA Department: www.uwlax.edu/student-affairs-admin/ (https://www.uwlax.edu/student-affairs-admin/)

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 at least 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.

Program length

The Doctor of Education (Ed.D.) in Student Affairs Administration and Leadership Program may be completed in three years. The program length is based on how long the required UWL coursework would take to complete for a full-time student who does not need to complete any prerequisite coursework. Program length may be extended if students attend part-time or due to the requirements of an individual student’s plan of coursework or dissertation.

2023-24 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/)
Adele Lozano, Ph.D. (http://www.uwlax.edu/profile/alozano/)
Tori Svoboda, Ed.D. (http://www.uwlax.edu/profile/tsvoboda/)

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.

Additional Staff

Hanna Dovalina (https://www.uwlax.edu/profile/hdovalina/), Graduate Writing Consultant & Program Manager
Sharon Tellier, (http://www.uwlax.edu/profile/stellier/) Academic Department Associate

Graduate degree

• Doctor of Education - Ed.D. (p. 137)

Certificate

• Higher education leadership certificate (p. 139)

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SAA 800</td>
<td>21st Century Learners</td>
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<tr>
<td>SAA 805</td>
<td>Organization and Governance</td>
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<td>SAA 808</td>
<td>Enrollment Management</td>
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<tr>
<td>SAA 810</td>
<td>Philosophical and Theoretical Foundations of Leadership in Education</td>
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<tr>
<td>SAA 820</td>
<td>Critical Analysis of Systemic Inequities: Challenges of Social Justice</td>
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<tr>
<td>SAA 825</td>
<td>Higher Education Finance and Budgeting</td>
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<tr>
<td>SAA 830</td>
<td>Qualitative Research Methods</td>
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<td>SAA 835</td>
<td>Assessment and Program Evaluation</td>
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<td>SAA 840</td>
<td>Supervision and Human Resource Management</td>
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<td>SAA 845</td>
<td>Quantitative Research Methods</td>
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<tr>
<td>SAA 865</td>
<td>Strategic Planning and Managing Change</td>
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<tr>
<td>SAA 870</td>
<td>Policy and Regulatory Compliance</td>
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<td>SAA 875</td>
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<td>Organizational Communication</td>
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<td>Dissertation</td>
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<tr>
<td>SAA 930</td>
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<tr>
<td>Dissertation Planning Workshop</td>
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<tr>
<td>SAA 950</td>
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<td>Dissertation Seminar</td>
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<tr>
<td>SAA 990</td>
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<tr>
<td>Dissertation I</td>
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<td>SAA 995</td>
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<tr>
<td>Dissertation II</td>
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<th>Electives</th>
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<tbody>
<tr>
<td>SAA 720</td>
<td></td>
</tr>
<tr>
<td>Special Topics in Student Affairs Administration</td>
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<tr>
<td>SAA 898</td>
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<tr>
<td>Special Topics in Student Affairs Administration and Leadership</td>
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<tr>
<td>SAA 899</td>
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<tr>
<td>Independent Study</td>
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<tr>
<td>SAA 931</td>
<td></td>
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<tr>
<td>Doctoral Writers' Retreat</td>
<td></td>
</tr>
</tbody>
</table>

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 Graduate & Extended Learning 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 Graduate & Extended Learning.
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 Graduates' requirements 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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/), see Graduate & Extended Learning.

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.)

Higher Education Leadership Certificate

The Higher Education Leadership Certificate Program is a nine-credit graduate certificate offered to support mid-level professionals working in higher education who already have a master’s degree and seek additional growth and learning, but who are not interested in pursuing a full doctorate at this time.

Program requirements

Admissions

Admission to the Higher Education Leadership Certificate requires:

1. An earned master’s degree from an accredited institution.

2. An overall undergraduate GPA of at least 3.0 on a 4.0 scale, or an overall graduate GPA of 3.0 on a 4.0 scale.
Course Descriptions - Graduate

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. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit - maximum 12 between ARC 498/598 and ANT 499. Departmental option for pass/fail grading. 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 lifespan 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 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 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/organisms, 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

Myology
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. 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 - Odd 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 the study of the environment. 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. Course work includes 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.

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 483/583 Cr.3**

**Cell Signaling**
Cell signaling controls the inner workings of organisms, allowing them to survive, reproduce, develop, respond, and adapt. Course topics will include how cells perceive changes in the environment by receptors, how they transmit the signal from receptors to other signaling molecules, and how signaling results in a cellular response. The course will integrate cell biology, genetics, and biochemistry. It will also complement several biology topics, such as biology of cancer, developmental biology, molecular biology, and endocrinology. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: CHM 325, CHM 417, or both BIO 306 and BIO 315 (BIO 315 may be taken concurrently). Offered Annually.

**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 pharmaco-dynamics 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 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 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 Fall.

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 Occasionally.

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.
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 acquire 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.
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 445/545 Cr.3
Biochemistry of Antimicrobials
A survey of the biochemistry and chemistry of drugs used to treat infectious diseases, including antibiotics, antivirals, antifungals, and anti-parasitic drugs. This course surveys biochemical mechanisms of action of clinically used antimicrobials, biochemical mechanisms of antimicrobial resistance, the biosynthesis of antimicrobials by microorganisms, chemical synthesis of antimicrobials, and approaches for the discovery of new antimicrobials. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 203 or BIO 315 or MIC 230; CHM 325 or CHM 417. 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 and 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 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 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. 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. Repeatable for credit - maximum six. Consent of instructor. Offered Fall, Spring, Summer.

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 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 multiprocessing 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 Fall - Odd 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. 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 356. Offered Occasionally.

CS 457/557 Cr.3  
**Machine Learning**  
This course is 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.

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 340; MTH 207. Offered Fall - Odd Numbered Years.

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 Spring - Even Numbered Years.

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 advisor. 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.
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 in-service 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 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.

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, idiothetic and nomothetic digital profiling, computer crime victimology, habit/authorship attribution, stylometry, and case linkage analysis. Consent of department. Offered Fall, Spring, Summer.
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.

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.

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.

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.

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.

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.
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 a graduate Data Science Program. 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 a graduate Data Science Program. 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 a graduate Data Science Program. 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 a graduate Data Science Program. 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 700, DS 710; admission to graduate Data Science Program. 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 740; 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 pertain 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 740; admission to MS in Data Science. Consent of department. Offered Fall, Spring.

DS 770 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, DS 710; 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.
**Digital Marketing (DMK) - Graduate Courses**

**Courses**

**DMK 700 Cr.3**  
**SEO and Digital Marketing Research**  
This course covers state-of-the-art tools and techniques for search engine optimization (SEO) including search engine algorithms, keyword research, on-page/technical SEO, schema, off-page/link-building, local SEO, voice search, domain authority, key performance indicators (KPIs), dashboards, position tracking, content-channel matrix, user experience (UX), third-party SEO tools, SEO ethics/best practices, SEO vs. pay per click (PPC), and SEO trends. Prerequisite: admission to graduate Digital Marketing Program. Offered Fall, Spring, Summer.

**DMK 705 Cr.3**  
**Customer Data Analysis and Decisions**  
This course covers cross-functional Customer Relationship Management (CRM) data analysis topics including marketing funnel; brand strategy; personas; building and managing customer lists/data scraping (lead generation); privacy considerations; Salesforce; Hubspot; automation; data analysis; customer segmentation; marketing communications; association rules; sentiment analysis; campaign metrics and strategies; web analytics; and key performance indicators (KPIs). Prerequisite: admission to graduate Digital Marketing Program. Offered Fall, Spring, Summer.

**DMK 710 Cr.3**  
**Digital Marketing Technologies**  
This course covers industry-leading technologies for digital marketing including visualization, social media management, email marketing, and analytics tools. Platforms and tools may include Tableau, R, R-shiny, Salesforce, Marketo, Google Data Studio, Google Analytics, Google Tag Manager, Zoho, Hubspot, and Zapier. Prerequisite: admission to graduate Digital Marketing Program. Offered Fall, Spring, Summer.

**DMK 730 Cr.3**  
**Legal and Ethical Considerations in Digital Marketing**  
This course explores the legal and ethical considerations in digital marketing. Topics include data collection, data sharing, security and privacy, intellectual property, copyrights, trademarks, licensing, non-disclosure agreements, contracting, obligations and liabilities, accessibility, international considerations, diversity, equity, inclusion, business ethics, and changing industry regulations. Prerequisite: admission to graduate Digital Marketing Program. Offered Fall, Spring, Summer.

**DMK 735 Cr.3**  
**Digital Marketing Strategy and Tactics**  
This course explores omni-channel digital marketing and brand strategy, channels, platforms, and tactics used in today's marketplace. Students develop a deep understanding of their organization or client, competitors, and their target customers. Students create an integrated digital marketing strategy - from concept to completion - to meet organizational objectives. Prerequisite: admission to graduate Digital Marketing Program. Offered Fall, 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 MSED 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 MSED Program. Offered Fall, Spring, Summer.

**EDU 610 Cr.3**  
**Second Language Acquisition: Research and Applications**  
This course offers an introduction to the field of second language acquisition, its main theories, and the application of each theory to the teaching of English as a second language, especially for K-12 learners in the U.S. It surveys the different theories of second language acquisition and connects these to practice through application assignments and an action research project. Learners gain foundational knowledge of second language acquisition theories by examining current research trends through the analysis of various empirical studies and applying these theories to the design of an action research project. Prerequisite: admission to graduate TESOL Certificate 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 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 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 MSED 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), action research design, action research proposal, and institutional review board. Prerequisite: EDU 641; 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 645 Cr.3
**Teaching with/in Culture**
In this course, students explore culture in K-12 education in U.S. public schools especially as it relates to English learners (ELs). Topics include deep structures of culture, culture and language, culture and identity, culturally responsive/sustaining pedagogy, and intercultural communicative competence. Students analyze group- and individual-level cultural influences in education, as well as the particular school and classroom climate they work in, and evaluate solutions for issues associated with cultural differences in education. The instructor models the process of exploring the history, culture, and tribal sovereignty of the Indigenous cultures of Wisconsin (per DPI Act 31). Students apply the same process to research another cultural group and create a lesson/unit plan for a diverse group of learners which applies principles of culturally responsive/sustaining pedagogy. Students finally develop skills to successfully navigate intercultural interactions when working with ELs and their families. Prerequisite: admission to graduate TESOL Certificate 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 680 Cr.3
TESOL Methods I: Language Learning through Content
In this course, students analyze policies related to teaching English learners (ELs) in U.S. K-12 public schools from the 1960s to the present. Using the systemic functional linguistics (SFL) theory, students analyze genre and content-area discourse features as they learn to plan instruction using the content-based instruction (CBI) approach. Students additionally reflect upon and incorporate the 3Cs model of education (co-planning and co-teaching to co-serve) into their instruction as they learn how collaboration is necessary to equitably and effectively teach ELs in U.S. public schools. Prerequisite: admission to graduate TESOL Certificate Program. Offered Fall, Spring, Summer.

EDU 681 Cr.3
TESOL Methods II: Teaching and Assessing Language
This course increases students' understanding of techniques and methods to teach English as a second language (ESL) in U.S. public schools. Students identify the historical development of approaches and methodologies for teaching ESL; understand foundational principles of teaching ESL; and explore individual English learner (EL) differences, including age/grade level and language proficiency level, and how to account for these in instruction. Students create a full unit plan to be taught with ELs which include appropriate and effective teaching strategies for each of the four language skills (reading, writing, listening, and speaking), as well as grammar and vocabulary. Students further their understanding of and ability to implement classroom-based assessment to make instructional decisions. Additionally, students explore materials and technology available for teaching ESL. Prerequisite: admission to graduate TESOL Certificate 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. Prerequisite: admission to english language arts elementary certificate program or approval from institute for professional studies in education (IPSE). 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). 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). 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 MSED 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. They key concepts of this course include: current social justice issues and educational policy. Prerequisite: EDU 651, EDU 652, EDU 753; admission to MEPD or MSED Program. Offered Fall, Spring, Summer.

EDU 755 Cr.3  
**Introduction to Special Education for In-Service Teachers**  
This course introduces in-service teachers to special education practices from historical, legislative, and people-centered recommended practices. General education and special education teachers have a shared responsibility to meet the needs of all students in learning environments that address individual needs and strengths. Students gain foundational understanding of exceptionalities from people, concepts, and historical perspective; policies, practices, and programs in special education; characteristics, prevalence, and supports and services for individuals with exceptionalities (as defined in current federal regulations); collaborative roles of general and special educators; and partnerships with families. Prerequisite: admission into the Special Education Certificate Program. Offered Annually.

EDU 756 Cr.3  
**Inclusive Classroom Practices in Special Education**  
Establishing and maintaining productive learning environments is a key feature of an effective globally responsive educator’s classroom. In this course, learners integrate foundational knowledge and explore practices to create a classroom environment using developmentally appropriate and responsive pedagogy based on the belief that all students have a variety of assets and all can learn at high levels. Key features of this class are understanding the role of the educator in intentionally creating learning opportunities designed for students with diverse identity markers (e.g. racial, cultural, linguistic, ability) and evaluating effectiveness in inclusive settings. Viewed through the lens of developmentally appropriate and responsive practices, learners apply pedagogical frameworks to create a supportive classroom that increases the likelihood of success for all learners and evaluate the impact of the practices to inform their teaching (e.g., Universal Design for Learning, High Leverage Practices, and Trauma-Informed Practices). This course is rooted in the High Leverage Practices (HLPs) identified by the Council for Exceptional Children (CEC) and the Collaboration for Effective Educator Development, Accountability and Reform. The four categories of High Leverage Practices are: Collaboration, Assessment, Social/Emotional/Behavioral, and Instruction. Prerequisite: admission into the Special Education Certificate Program. Offered Annually.
EDU 757 Cr.3
**Co-Planning and Co-Teaching in Inclusive Learning Environments**
Effective communication and collaborative relationships between parents, students, and school and community personnel in a culturally responsive environment is an essential component of being a globally responsive educator. Students receiving special education services are supported by educational teams composed of students, parents, education professionals, and agency representatives. This course is designed to prepare special education teacher candidates for the responsibilities related to collaboration and transition associated with serving students with special education needs in grades K-12.
This course focuses on effective collaboration processes as well as the development of transition plans for students with specific learning disabilities, emotional/behavioral disabilities, and intellectual disabilities; and the impact transition plans have on educational curriculum, instructional practices, career development, and placement practices. Prerequisite: admission into the Special Education Certificate Program. Offered Annually.

EDU 758 Cr.3
**Advanced Special Education 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 K-12 setting. Specific approaches for the evaluation of special education eligibility, teaching and instruction, and monitoring student progress are discussed, including norm-referenced tests, criterion-referenced testing, curriculum-based measures, and observational assessment. Prerequisite: admission into the Special Education Certificate Program. Offered Annually.

EDU 759 Cr.3
**Advanced Methods: Teaching Students with Disabilities**
This course focuses on curriculum, methods, and strategies used in educating students with disabilities in various educational settings. Topics covered within this course include evidence-based, culturally and linguistically responsive approaches to teaching and learning, development of Individualized Education Programs (IEPs), strategies to support Social and Emotional Learning (SEL), evidence-based practices in mathematics and literacy, and learning strategies. Teacher candidates deepen their understanding of IEP development and strategy instruction and apply their learning with students with disabilities. Prerequisite: admission into the Special Education Certificate Program. Offered Annually.

EDU 760 Cr.3
**Classroom Management and Positive Behavioral Practices**
This course allows candidates to use effective and varied behavior management strategies to support and enhance students’ successful engagement and participation in the classroom. Candidates learn about laws and policies impacting behavior management planning and implementation; functional behavioral assessment and the use of its information in designing behavior intervention plans and making decisions for the student and the program; understand the rights and responsibilities of families and other professionals in assessing the needs of the student and the use of different behavior management strategies; and evaluate and modify instructional practices and monitor the progress of students with challenging behaviors. Candidates are expected to perform at least 15 hours of clinical work with learners in their school. Prerequisite: admission into the Special Education Certificate Program. Offered Annually.

EDU 761 Cr.3
**Practicum in Special Education**
This course is a practicum for candidates seeking certification in special education. Candidates are exposed to a variety of educational settings (e.g., special education setting, inclusive setting) for at least 50 hours in their district of employment or another approved site, during which they will observe, design, and implement various pedagogical practices, plans, and programs with students with disabilities (i.e., specific learning disabilities, emotional and behavioral disorders, intellectual disabilities, autism spectrum disorder, etc.), and become familiar with special education teacher responsibilities. Candidates will be under the direct supervision of a certified special education teacher and university supervisor (course instructor). Prerequisite: admission into the Special Education Certificate Program. Offered Annually.

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 MSED 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 MSED 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 780 Cr.3
TESOL Practicum
Through the TESOL practicum, students gain practical planning instruction, teaching, and assessing English learners (ELs) in a K-12 school setting. In this course, students are formally observed twice teaching ELs and engaging in the assessment cycle. Students engage in critical reflection on their own teaching, individually and with a mentor teacher. Students also identify areas of improvement and plan for their own on-going professional development as an ESL teacher. This practicum experience is a minimum of 50 hours and is supervised by both a school-based supervisor and a university supervisor. Prerequisite: admission to graduate TESOL Certificate Program. 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.

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 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. Applying in a school-based setting is required. Lect. 2, Lab 2. Prerequisite: admission to Master of Science Physical Education Teacher Education Program. Offered Fall, Summer.

ESS 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 as 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. Prerequisite: admission to Master of Science Physical Education Teacher Education Program. Offered Fall, Spring.

Exercise and Sport Science (ESS) - Graduate Courses

Courses
ESS 530 Cr.3
Disability and Physical Activity Implications
The course addresses 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. Prerequisite: admission to Master of Science Physical Education Teacher Education Program. Offered Fall, Summer.

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, Winter.

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 705 Cr.3
Outdoor Pursuits & Experiential Learning
This course utilizes the interdisciplinary nature of outdoor pursuits and experiential learning to enhance learner knowledge of and contribution to physical and educational growth. In addition, the pedagogical focus provides opportunities for learners to enhance their leadership and facilitation skills with groups of people in the outdoors. Repeatable for credit - maximum six. Lect. 1, Lab 4. Offered Summer.
ESS 720 Cr.1-6
Graduate Project in Clinical Exercise Physiology
In this course, the student will work with a faculty advisor to propose and develop a project related to the field of clinical exercise physiology. Possible projects could include a systematic review of the literature on a specific topic, an analysis of existing data, development of an educational video, or the design and implementation of an innovative programming idea into the La Crosse Exercise and Health Program offerings. The culminating end-product will be determined by the student’s advisor. Repeatable for credit - maximum six. Offered Fall, Spring.

ESS 725 Cr.2
Diversity in the Physical Activity Setting
The class addresses racial, ethnic, sexual orientation, and disability issues for which physical education teachers should have an awareness. The purpose of the course is 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 are 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 are studied and instructional materials are developed. A variety of instructional units and lessons which incorporate knowledge-based objectives and developmentally appropriate learning experiences are 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 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 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 is also given to the personal assessment of teaching and the need for and characteristics of effective staff development activities. Offered Fall.

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 Fall.

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 767 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
This course is designed for practitioners in the field of physical education. Students identify the current trends and issues in physical education and explore ways to resolve the issues. Students have opportunities to pursue quality physical education through in-depth class discussions and activities on the current selected issues in physical education. 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 is 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 is stressed. Offered Fall.

ESS 778 Cr.2
Practicum in Adventure Education
This practicum provides students with experiences in field based (authentic) leadership and teaching situations in a field setting with public school programs. Emphasis is 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 study 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, preschool 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 790 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 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
Readings in Biomechanics
A survey and analysis of current and classical 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 796 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.
Financial Technology (FNT) - Graduate Courses

Courses

FNT 700 Cr.3  
FinTech Essentials  
This course covers the FinTech ecosystem and its technology-assisted processes including core banking systems, Automated Clearing House (ACH) processing, payment systems, Interactive Teller Machines (ITMs), money movement apps, Billpay systems, and credit card networks. Students analyze financial statements, capital budgeting techniques, and liquidity metrics, and perform cash flow, profitability, valuation analysis. Prerequisite: admission to graduate FinTech Program. Offered Annually.

FNT 705 Cr.3  
FinTech Analytics  
This course covers financial data technologies, financial data visualization, and developing financial analytics applications using current analytics software tools. Prerequisite: admission to graduate FinTech Program. Offered Annually.

FNT 710 Cr.3  
Managing FinTech Innovation  
Develop competencies required to cultivate an innovative organizational culture in the financial services industry. Learn how to develop, evaluate, and manage a strategic technology plan. Explore FinTech project management topics, life cycle models, development processes, business analysis, risk analysis, vendor selection and cybersecurity. Prerequisite: admission to graduate FinTech Program. Offered Annually.

FNT 730 Cr.3  
Technologies in FinTech  
Students will learn how cloud computing, artificial intelligence, machine learning and other technologies are used in a financial services context. Additional topics such as API design, robotic process automation, risk analysis, and cybersecurity will also be discussed. Prerequisite: admission to graduate FinTech Program. Offered Annually.

FNT 735 Cr.3  
Blockchain Technologies  
This course covers Bitcoin, Ethereum and other blockchain technologies, cryptocurrencies vs blockchain, smart contracts, dApps, DeFi applications, crypto wallets, blockchain test nets & transactions, regulatory landscape, crypto trading and implications on accounting. Prerequisite: admission to graduate FinTech Program. Offered Annually.

FNT 740 Cr.3  
Artificial Intelligence and Machine Learning in FinTech  
Students will learn artificial intelligence and machine learning strategies and how they can be used to build more efficient financial services. AI/ML techniques include decision trees, kNN, Random Forests, SVM for applications such as credit evaluation, fraud detection, loan underwriting, algorithmic trading, and chatbots. Prerequisite: admission to graduate FinTech Program. Offered Annually.

Geography (GEO) - Graduate Courses

Courses

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: GEO 305; STAT 145. Offered Fall, Spring.

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: GEO 305 or GEO 590. Offered Fall.

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: GEO 305. Offered Occasionally.
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: GEO 305. Offered Fall.

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. Lect. 2, Lab 2. Prerequisite: GEO 305. Offered Fall.

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: GEO 101. Offered Fall - Odd Numbered Years.

GEO 427/527 Cr.3
Sustainable Water Resource Management
Sustainable Water Resource Management is designed to engage students in critical thinking with regard to the management of water resources within the socio-ecological framework. Students will understand how the interacting dynamics of the natural environment, social factors, politics, and economics shape sustainable water resources policies and practices. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall - Odd Numbered Years.

GEO 428/528 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: GEO 221 and GEO 222. Offered Alternate Years.

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: GEO 222. Offered Spring - Odd Numbered Years.

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: GEO 415/515. Offered Spring.

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: GEO 415/515. Offered Spring.

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: GEO 221 or GEO 222. Offered Fall - Even Numbered Years.
**Scripting in GIS**
This course will teach students how to customize within GIS software using scripting and programming tools commonly used in GIS discipline. Students 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. Prerequisite: GEO 405/505. Offered Occasionally.

**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. Offered Occasionally.

**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: GEO 405/505. Offered Occasionally.

**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 405/505 or concurrent enrollment; STAT 145. Offered Occasionally.

**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. Offered Occasionally.

**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. Offered Fall, Spring.

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**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.
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 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 Fall, Spring, Summer.

HED 471/571 Cr.2
Health Education Responsibilities, Competencies, and Certification
Participants 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 eight areas of responsibilities with selected competencies and sub-competencies are examined with practitioner examples, and a review is conducted for the Certified Health Education Specialist (CHES) national examination. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Fall, Spring.

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 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 an undergraduate level. Graduate students will have additional course requirements/expectations. 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 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 701 Cr.3
Senior Care and Services Systems
This course explores the foundation of academic and professional disciplines in senior services and examines regulations in senior care and service organizations. It provides exposure to knowledge and tools for the development and implementation of programs and practices that advance a high quality and safe living or service environment for frail seniors and other populations in need of care or service. Consent of department. Offered Fall, Spring, Summer.

HCA 702 Cr.3
Leadership Practices across the Senior Care Continuum
This course provides an up-to-date review and exploration of a variety of topics important to the success of an administrative leader in senior care and services. Selected topics focus the knowledge and application of leadership and management skills necessary in today’s health care and aging services environment. Consent of department. Offered Fall, Spring, Summer.

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.
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.

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 advisor, 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. 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.

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 not be limited to: CT, MRI, ultrasound, and radionuclide scans. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 513 Cr.2
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. 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 516 Cr.1
Fundamentals of Radiation Safety
Radiation safety measures are reviewed and updated according to federal and state mandates. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 518 Cr.1
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. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 523 Cr.4
Treatment Planning and Calculations
Treatment planning computers and software applicable to the various techniques used in clinic are discussed. Methods of treatment planning techniques for various diseases using single and multiple field arrangements with photons and electrons are discussed. In addition, advanced treatment planning techniques of conformal radiation therapy including 3D treatment planning, IMRT, IGRT, VMAT, Gating, Protons, and Stereotactic are also discussed. For basic and advanced treatment planning techniques, factors that affect dose distribution and delivery and how to account for those factors in dose calculations are explained. Prerequisite: 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. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Summer.

DOS 531 Cr.2
Clinical Oncology for Medical Dosimetrists
This course covers various cancers specific to disease sites, treatment, and management of care during treatment. Prerequisite: 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. Prerequisite: DOS 523; acceptance into the Master of Science in Medical Dosimetry Program. Offered Summer.

DOS 542 Cr.2
Quality Assurance
The methods and importance of periodic quality assurance procedures of radiation oncology equipment and treatment planning equipment are covered in this course. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 543 Cr.2
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. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 711 Cr.3
Research Methods 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 select a research topic and develop questions related to it. Library and literature resources and procedures for using them will be described in detail and AMA style of writing will be understood. This is the first phase of the comprehensive research project. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Spring.
DOS 731 Cr.2
Research Methods II
This course follows Research Methods I and expands on research terminology. Sampling, measuring instruments and statistics are discussed further. Types of research studies are explored as outlines are finalized and drafts are prepared. Prerequisite: DOS 711; acceptance into the Master of Science in Medical Dosimetry Program. Offered 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. 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. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 751 Cr.2
Research Methods III
This course follows Research Methods II and serves as the culminating research course. Students utilize peer review, editing, and various elements of individualized instruction while preparing their final research manuscript for publication. Students are required to submit to the AAMD Student Writing Competition. Prerequisite: DOS 731; acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall.

DOS 771 Cr.2-5
Clinical Internship I
Students gain clinical experience with patient set-ups and imaging studies, radiation safety in the clinical environment, anatomical contouring, and computers and networking for treatment planning. Students will begin basic calculations and treatment planning techniques. Repeatable for credit - maximum five. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 772 Cr.1-5
Clinical Internship 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 radiation oncology. Repeatable for credit - maximum five. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

DOS 773 Cr.2-5
Clinical Internship III
Students continue to improve their treatment planning skills, concentrating on advanced planning methods and quality assurance techniques. Repeatable for credit - maximum five. Prerequisite: acceptance into the Master of Science in Medical Dosimetry Program. Offered Fall, Spring, Summer.

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. 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. Students will integrate the didactic curriculum learned for the successful completion of the MDCB exam. The focus of case studies will include imaging, patient setups, and anatomical contouring. 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. Students integrate the didactic curriculum learned for the successful completion of the MDCB exam. The focus of case studies include imaging, patient setups, anatomical contouring, dose calculations, radiobiological principles, and quality assurance. 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 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. Students integrate the didactic curriculum learned for the successful completion of the MDCB exam. The focus of case studies include imaging, patient setups, anatomical contouring, dose calculations, radiobiological principles, and quality assurance. Supervision is provided by medical physicist and radiation oncologists. Prerequisite: 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 3, 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. Lab 4. 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 concurrent enrollment, or BIO 306, or equivalent course work; 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; 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; biocorversions; 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.

MIC/BIO 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 3. Prerequisite: BIO 306 or MIC 416/516. (Cross-listed with BIO/MIC; may only earn credit in one department.) Offered Spring, Winter.

MIC/BIO 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.

MIC/BIO 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.

MIC/BIO 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 Occasionally.

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.

MIC/BIO 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.
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 Summer.

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 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
Clinical Applications of Movement
This course will explore principles of biomechanics and kinesiology and how they relate to the understanding and analysis of movement during occupational performance. This will include the assessment 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 explore kinesiology considerations for specific musculoskeletal regions including the head, torso, upper and lower extremities and how this relates to commonly used hands-on assessments and interventions including range of motion, manual muscle testing, wheelchair positioning and client transfers. The use of movement assessment data will be utilized for intervention planning through the OT process. 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 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, 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 625 Cr.3
Community Mental Health Promotion
This course will provide foundational knowledge and experiential learning related to occupational therapy’s role in community-based practice settings for the promotion of mental health. Course concepts will include common diagnoses, group process, assessment and intervention specific to use in mental health contexts with a focus on occupational therapy’s role as consultant and facilitator in community emerging practice areas. Psychosocial considerations of occupational performance and impact of chronic conditions will be explored for those receiving services as well as caregivers and health care professionals. Prerequisite: successful completion of fall 1 coursework; admission to graduate Occupational Therapy Program. Offered Spring.

OT 640 Cr.2
Assistive Technology
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, communication aids, sensory aids, electronic aids to daily living, community mobility, driving, 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. Lect. 1, Lab 2. Prerequisite: OT 526; OT 530, OT 531; OT 545; 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 ADLs, 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 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/contraindications 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. Offered Spring.

OT 726 Cr.2
Professional Seminar
This course will serve to facilitate development of leaders in the field of occupational therapy including roles in the areas of management, policy, advocacy and higher education. Students will reflect on personal leadership qualities and styles and develop personal and professional development plans. Students will develop strategies for promoting advocacy for the field of occupational therapy and policy development. Students will analyze data to develop a quality improvement plan to maintain outcomes. This course will address critical issues directly related to professional development, fieldwork preparation, and licensure and certification prior to beginning Level II fieldwork. Prerequisite: completion of all prior coursework; 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.2
Scholarly Practice II: Research Methodology
This course is the second in the series of scholarly practice courses. It is designed to help the students become familiar with research methodologies used in occupational therapy and to gain experience in selected steps of the research process. Topics covered include reading a scholarly article, literature searching strategies, research methodologies (single-subject, correlation, research, descriptive, qualitative, etc.), principles of ethical research, and application/interpretation of statistical data. Students will practice reading, critiquing, analyzing, and discussing scholarly literature. Prerequisite: OT 550; admission to graduate Occupational Therapy Program. Offered Spring.

OT 770 Cr.2
Scholarly Practice IV: Analysis and Scholarly Dissemination
This course is the fourth and final course in the series of scholarly practice courses. In this course, students will analyze, interpret, and disseminate their research and systematic review, with meta-analysis findings. Student will use SPSS and systematic review/meta-analysis software to manage, analyze, interpret, and document the research data. They will critically analyze the contextual and cultural influences of data collection and analysis. Students will develop scholarly presentation (oral and written) which disseminates their findings in the most appropriate manner for the context. Prerequisite: OT 760; admission to graduate Occupational Therapy Program. Offered Spring.

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 780 Cr.3
Program Development
This course will focus on the steps of creating occupation-centered program development with the goal of program implementation of developed programming during fall 2 of the curriculum. Topics will include beginning with an idea, exploration of problems/gaps in current programming, a needs assessment, analysis of demographic and epidemiological data, and a review of literature for evidence-based interventions. Students will then create programming to meet community needs through development of a mission statement, goals and objectives and an evaluation plan. Principles of grant writing will also be presented. Prerequisite: completion of all prior coursework; admission to graduate Occupational Therapy Program. Offered Fall.
OT 782 Cr.1

Level I Fieldwork: Community Mental Health & Wellness
This course is designed to provide an opportunity to observe and practice occupational therapy interventions for the promotion of mental health and wellness in individual and group settings. It is 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 services 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 726; OT 780; admission to graduate Occupational Therapy Program. Pass/Fail grading. Offered Spring.

OT 786 Cr.1

Applied Adult Clinical Practice
This course is a two-hour seminar that includes practice 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 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 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 40-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 Summer.

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

PTS/BIO/PAS 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.

PTS/BIO/PAS 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 perform 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" (PTS 527). 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.2
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 and Differential Diagnosis
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, 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.
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 Fall, Spring.

SELECTED TOPICS IN PHYSICAL THERAPY
This course offers an 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.

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.

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 Fall, Spring.

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.

PHYSICAL THERAPY RADIOTHERAPY
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 Fall.

APPLIED 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.

APPLIED MUSCULOSKELETAL EXAMINATION AND INTERVENTIONS: LOWER EXTREMIT
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 715. Offered Fall.

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: Lower Extremity" (PTS 715). 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 spring 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 spring 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; concurrent enrollment in PTS 740. 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 summer 2 courses; concurrent enrollment in PTS 737. Offered Fall.

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 738. 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, and/or interpret results. Repeatable for credit - maximum two. Prerequisite: admission to DPT Professional Program; satisfactory progression through all didactic coursework in summer 2 courses. Pass/Fail grading. Offered Fall, Spring.

PTS 751 Cr.2  
**Fieldwork: General Practice**  
The student will be assigned to a clinically based learning experience wherein 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 three 12-week 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 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.
PT5 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.

PT5 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
PAS/BIO/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.

PAS/BIO/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 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
Infectious Diseases
This course integrates the pathophysiology, clinical diagnosis, and management of a spectrum of infectious disease disorders and the role of the immune system in preventing and treatment of infectious disease disorders. Discussion of common microorganisms that infect humans include bacteria, fungi, viruses, and parasites. The course is designed to build on previous knowledge of microbiology concepts and allows PA students to develop critical clinical reasoning skills and an advanced understanding of infectious disease processes. Prerequisite: admission to the Physician Assistant Program. Offered Fall.

PAS 630 Cr.3
Clinical Pharmacology I
This course introduces the PA student to the principles of pharmacologic action and classification. Emphasis is placed on the clinical application of pharmacotherapeutics for human health and disease including indications, contraindications, bioavailability, drug interactions, dose response, side effects, and adverse reactions in consideration of patient specific factors. Prerequisite: admission to the Physician Assistant Program. Offered Fall.

PAS 631 Cr.2
Clinical Pharmacology II
This course builds on the knowledge of pharmacologic principles obtained in PAS 630. Emphasis is placed on the clinical use of medications for human health and disease including indications, contraindications, bioavailability, drug interactions, dose response, side effects, and adverse reactions that were not covered in PAS 630. Prerequisite: PAS 630; admission to the Physician Assistant Program. Offered Spring.

PAS 637 Cr.1
Clinical Practice Skills I
This course facilitates the development of proper medical documentation skills, bringing together the knowledge previously developed in the program to perform and document in a medical record. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter.

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. 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. Offered Fall.

PAS 647 Cr.2
**Applied 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. 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 individualize patient care. This course also addresses healthcare across the lifespan including geriatric patient evaluation and management. Physical and rehabilitative medicine concepts and standardized clinical experiences are utilized to build clinical skills. Lab 4. Prerequisite: admission to the Physician Assistant Program. Offered Spring.

PAS 649 Cr.1
**Health Care Administration, Law, and Ethics**
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 considered. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring.

PAS 652 Cr.1
**Clinical Procedures**
This course prepares the PA student for clinical rotations and professional practice by introducing the technical skills and procedures based on current professional practice for patients of all ages. Students have the opportunity to practice inpatient and outpatient procedures necessary for the clinical year and professional practice as well as additional certification courses. Repeatable for credit - maximum two. Lect. 1, Lab 1. Prerequisite: admission to the Physician Assistant Program. Pass/Fail grading. Offered Spring, Summer.

PAS 654 Cr.2
**Evidence Based Practice for PAs**
This course introduces the PA student to the core concepts of evidence-based medicine, life-long learning, and clinical application. These concepts include the process of evidence-based medicine, the interpretation of research results, and application to healthcare. Students demonstrate the ability to utilize up-to-date scientific evidence to inform clinical reasoning and clinical judgement. Students have the opportunity to learn and develop answerable clinical questions utilizing 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. 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. 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. 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. Offered Fall.

PAS 683 Cr.2
**Gastroenterology**
This course is designed to teach content and integrate the basic principles of pathophysiology, clinical diagnosis, management of gastrointestinal, hepatic, biliary, and pancreatic diseases. This course expands on the basic medical sciences of human anatomy and physiology 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 gastroenterology system. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Spring.

PAS 685 Cr.2
**Pulmonology**
This course is designed to teach content and integrate the basic principles of pathophysiology, clinical diagnosis, management of pulmonary diseases. This course expands on the basic medical sciences of human anatomy and physiology 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 system. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Spring.
PAS 700 Cr.1
**Society and Population Health**
Quality health care involves an ongoing consideration of a constantly changing health care system and the impact of racial, gender, age, ethnic, and socioeconomic health disparities on health care delivery. This course facilitates the development of the PA's role in public health, patient advocacy, and maintenance of population health. Social determinants of health are discussed to create awareness of differing health beliefs, values, and expectations of patients and other healthcare professionals that can affect communication, decision-making, compliance, and health outcomes across a patient's lifespan. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring.

PAS 701 Cr.1
**Nephrology**
This course integrates the pathophysiology, clinical diagnosis, and management of a spectrum of disorders in nephrology. The course is designed to allow PA students to develop critical clinical reasoning skills and an understanding of renal disease processes. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring.

PAS 703 Cr.1
**Endocrinology**
This course integrates the pathophysiology, clinical diagnosis, and management of a spectrum of disorders in endocrinology. The course is designed to allow PA students to develop critical clinical reasoning skills and an understanding of disease processes involving the endocrine system. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring.

PAS 707 Cr.1
**Hematology**
This course integrates the pathophysiology, clinical diagnosis, and management of a spectrum of disorders in hematology. The course is designed to allow PA students to develop critical clinical reasoning skills and an understanding of hematologic disease processes. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, 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 I**
This course introduces the PA student to the major branches of neuroscience. Students integrate the pathophysiology and clinical presentation of a wide range of neurologic conditions while formulating a clinical diagnosis and treatment plan. The course is designed to allow the PA student to develop critical clinical reasoning skills and an understanding of disease processes involving the nervous system. Prerequisite: admission to the Physician Assistant Program. Offered Fall.

PAS 712 Cr.2
**Clinical Neuroscience II**
This course builds upon the concepts learned in PAS 711. Students continue to explore the major branches of neurobehavioral and neurocognitive sciences. Students integrate the pathophysiology and clinical presentation of a wide range of neurologic conditions while formulating a clinical diagnosis and treatment plan. The course is designed to allow students to develop critical clinical reasoning skills and an understanding of disease processes involving the nervous system. Prerequisite: admission to the Physician Assistant Program. Offered Spring.

PAS 717 Cr.1
**Rheumatology**
This course integrates the pathophysiology, clinical diagnosis, and management of a spectrum of disorders in rheumatology. The course is designed to allow PA students to develop critical clinical reasoning skills and an understanding of rheumatologic disease processes. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring.

PAS 720 Cr.4
**Family Medicine Rotation**
This 4-week family medicine rotation provides experiential learning that focuses on the role of the PA in outpatient family medicine. Students work under the supervision of a program-defined preceptor(s) or designee(s). Students actively apply and expand the medical knowledge gained during the didactic year and demonstrate and develop effective information-gathering, clinical reasoning, communication, and professionalism skills. This rotation introduces students to the fundamentals of medical practice for infant, child, adolescent, adult, and elderly patients, including preventive health; prenatal care; care of acute (urgent), chronic, gynecologic, and behavioral disorders; participation in diagnostic and therapeutic procedures; conduct of medical referrals; and education and counseling of patients and their caregivers. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring, Summer.

PAS 722 Cr.4
**Internal Medicine Rotation**
The 4-week internal medicine rotation provides experiential learning that focuses on the role of the PA in outpatient and/or inpatient internal medicine. Students work under the supervision of a program-defined preceptor(s) or designee(s). Students actively apply and expand the medical knowledge gained during the didactic year and demonstrate and develop effective information-gathering, clinical reasoning, communication, and professionalism skills. This rotation introduces students to the fundamentals of medical practice for adult and elderly patients, including disease prevention; care of acute (urgent) and chronic disorders; conduct of hospital admission, discharge, and/or medical referral; participation in diagnostic and therapeutic procedures; and education and counseling of patients and their caregivers. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring, Summer.
General Surgery Rotation
The 4-week general surgery rotation offers experiential learning that focuses on the role of the PA in the pre-operative, intraoperative, and post-operative general surgical setting. Students work under the supervision of a program-defined preceptor(s) or designee(s). Students actively apply and expand the medical knowledge gained during the didactic year and demonstrate and develop effective information-gathering, clinical reasoning, communication, and professionalism skills. This rotation introduces students to the fundamentals of general surgical practice for adult and elderly patients, including care of pre-operative, intraoperative, and post-operative disorders; observation of and participation in surgical procedures; conduct of hospital admission and discharge; and the education and counseling of patients and their caregivers. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring, Summer.

Women's Health Rotation
This 4-week women's health rotation provides experiential learning that focuses on the role of the PA in outpatient, surgical, and inpatient women's health and in labor and delivery. Students work under the supervision of a program-defined preceptor(s) or designee(s). Students actively apply and expand the medical knowledge gained during the didactic year and demonstrate and develop effective information-gathering, clinical reasoning, communication, and professionalism skills. This rotation introduces students to the fundamentals of medical practice for adolescent, adult, elderly, and infant (newborn) patients, including preventive health; prenatal care; labor and delivery; care of acute (urgent), chronic, gynecologic, and behavioral disorders; participation in gynecologic and obstetric diagnostic and therapeutic procedures; observation of and participation in surgical procedures; conduct of medical referrals; hospital admissions, and/or discharges; and education and counseling of patients and their caregivers. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring, Summer.

Pediatric Rotation
This 4-week pediatric rotation offers experiential learning that focuses on the role of the PA in outpatient and/or inpatient pediatrics. Students work under the supervision of a program-approved preceptor(s) or designee(s). Students actively apply and expand the medical knowledge gained during the didactic year and demonstrate and develop related information-gathering, clinical reasoning, communication, and professionalism skills. This rotation introduces students to the fundamentals of medical practice for infants, children, and adolescents, including preventive health, assessment of development, care of acute (urgent) and chronic medical disorders, participation in diagnostic and therapeutic procedures, conduct of medical referrals, and education and counseling of patients and their caregivers. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring, Summer.

Behavioral Health Rotation
This 4-week behavioral health rotation provides experiential learning that focuses on the role of the PA in outpatient and/or inpatient behavioral medicine. Students work under the supervision of a program-defined preceptor(s) or designee(s). Students actively apply and expand the medical knowledge gained during the didactic year and demonstrate and develop effective information-gathering, clinical reasoning, communication, and professionalism skills. This rotation introduces students to the fundamentals of medical practice for child-aged or adolescent, adult, and elderly patients, including care of behavioral and related medical disorders, observation of medical and/or behavioral diagnostic and therapeutic procedures, and the education and counseling of patients and their caregivers. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring, Summer.

Specialty Medicine Rotation
The 4-week specialty rotation offers experiential learning that focuses on the role of the PA in specialized medicine or surgery. Accordingly, learning occurs in inpatient, outpatient, and/or surgical settings. Students work under the supervision of a program-defined preceptor(s) or designee(s). Students actively apply and expand medical knowledge gained during the didactic year and demonstrate and develop effective information-gathering, clinical reasoning, communication, and professionalism skills. This rotation introduces students to the fundamentals of medical or surgical care for infant, child, adolescent, adult, and elderly patients, including care of emergent, acute (urgent), and behavioral disorders; participation in emergent diagnostic and therapeutic procedures; conduct of medical referral, emergency discharge, and/or hospital admission; and education and counseling of patients and/or their caregivers. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring, Summer.

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 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 Spring.

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. Offered Spring.

PAS 770 Cr.1
**Principles of Surgical Medicine**
This course provides the PA student with academic preparation to evaluate and manage patients with surgical conditions. It also provides students with a core understanding of mechanisms of wound healing; surgical techniques; and pre-, peri- and post-operative management of surgical problems. Additionally, illnesses that require surgical intervention, their signs and symptoms, diagnostic modalities, and outcomes are also discussed. Prerequisite: admission to the Physician Assistant Program. Offered Spring, Winter.

PAS 771 Cr.1
**Orthopedics**
This course integrates the pathophysiology, clinical diagnosis, and management of a spectrum of disorders in orthopedics. The course is designed to allow PA students to develop critical clinical reasoning skills and an understanding of musculoskeletal disease processes. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, 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 the pathophysiology, clinical diagnosis, and management of a spectrum of disorders in dermatology. The course is designed to allow PA students to develop critical clinical reasoning skills and an understanding of dermatologic disease processes. Prerequisite: admission to the Physician Assistant Program. Offered Fall, Winter, Spring.

PAS 790 Cr.1
**PA Professional Development I Seminar**
This course series prepares the PA for professional practice through the development and demonstration of program defined competencies. Completion of this series supports the program’s mission including proficiency in professional ethics and cultural competency. Additionally, PA students utilize evidence-based medicine skills learned during the didactic year to select and prepare a case-based presentation. Prerequisite: admission to the Physician Assistant Program. Offered Summer.

PAS 792 Cr.1
**PA Professional Development II Seminar**
This course series prepares the PA for professional practice through the development and demonstration of program defined competencies. Completion of this series supports the program’s mission including proficiency in professional ethics and cultural competency. Additionally, PA students utilize evidence-based medicine skills learned during the didactic year to select and prepare a case-based presentation. Prerequisite: admission to the Physician Assistant Program. Offered Fall.

PAS 794 Cr.1
**PA Professional Development III Seminar**
This course series prepares the PA for professional practice through the development and demonstration of program defined competencies. Completion of this series supports the program’s mission including proficiency in professional ethics and cultural competency. Additionally, PA students utilize evidence-based medicine skills learned during the didactic year to select, prepare, and present a case-based presentation. Prerequisite: admission to the Physician Assistant Program. Offered Spring.

PAS 800 Cr.1
**Clinical Assessment I**
The course utilizes simulated and standardized patients as well as small group interactions to allow the PA student to build competency in interviewing techniques and examination skills. Demonstration of clinical reasoning through patient encounters and documentation are emphasized. Some instruction may occur at external clinical sites. Lab 2. Prerequisite: admission to the Physician Assistant Program. Pass/Fail grading. Offered Fall.
Directed Study in Psychology
PSY 795 Cr.1-3
Offered Occasionally.

Directed readings or presentation of psychological material not available in formal departmental courses. Repeatable for credit - maximum four.

Educational Psychology: Human Development
PSY 710 Cr.2-3
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.

Educational Psychology: Learning and Instruction
PSY 770 Cr.2-3
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.

Directed Study in Psychology
PSY 795 Cr.1-3
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.3
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. Prerequisite: admission to the MPH Community Health Education Program. Offered Annually.

PH 710 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 711 Cr.3
Qualitative 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 are explored and practiced. Software is used to assist in learning and understanding the appropriate statistical tools to understand what the data tell us. Prerequisite: admission to the MPH Community Health Education Program. Offered Annually.

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 learn to select appropriate communication strategies for various priority populations and sectors. Additionally, students gain an understanding of the key concepts of health literacy and the crucial role cultural competence plays in communication. Students have opportunities to create health literate, culturally competent, and audience-appropriate written and oral communications. Prerequisite: admission to the MPH Community Health Education Program. Offered Annually.

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: admission to the MPH Community Health Education Program. Offered Annually.

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 may be 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. This course ties policy theory to real-world practice. Prerequisite: PH 700, PH 701, PH 710, PH 711, PH 725, and PH 755. Offered Annually.

PH 770 Cr.3
Program Planning
This course requires students to assess community needs and resources as well as plan health programs. Following models commonly used in public health, students 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 are used when prioritizing needs and planning interventions. Students 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 are emphasized as essential to planning best practices solutions to community health needs. Prerequisite: PH 700, PH 701, PH 710, PH 711, PH 725, and PH 755. Offered Annually.

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. Prerequisite: PH 700, PH 701, PH 710, PH 711, PH 725, and PH 755. Offered Annually.

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. Prerequisite: PH 700, PH 701, PH 710, PH 711, PH 725, and PH 755. Offered Annually.

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: PH 700, PH 701, PH 710, PH 711, PH 725, and PH 755. Consent of department. Offered 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 are emphasized with a special focus on organizational concepts related to public health and human service agencies. Prerequisite: PH 700, PH 701, PH 710, PH 711, PH 725, and PH 755. Offered Annually.

PH 792 Cr.2
Public Health Integrative Learning Experience (ILE)
MPH students complete an integrative learning experience (ILE) that demonstrates synthesis of foundational and concentration competencies. Students in consultation with faculty select foundational and concentration-specific competencies appropriate to the student's educational and professional goals; demonstrating synthesis and integration requires more than one foundational and one concentration competency. Repeatable for credit - maximum four. Prerequisite: PH 700, PH 701, PH 710, PH 711, PH 725, and PH 755. Consent of department. Offered Annually.
**Race, Gender, and Sexuality Studies (RGS) - Graduate Courses**

Courses

RGS 500 Cr.1-3
Independent Study in Race, Gender, and Sexuality Studies
Directed reading and research under the supervision of an instructor. Repeatable for credit - maximum six. Consent of instructor. 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 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.

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. Offered Occasionally.

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.
**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 Occasionally.  
REC 420/520 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 445/545 Cr.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 491/591 Cr.1-3

**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 700 Cr.1-9

**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 704 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 710 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 online Recreation Management: Professional Development 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 online Recreation Management: Professional Development 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 online Recreation Management: Professional Development 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 online Recreation Management: Professional Development Program. Offered Fall, Winter, Spring, Summer.

REC 737 Cr.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 online Recreation Management: Professional Development 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 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 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.

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### Recreational Therapy (RTH) - Graduate Courses

#### Courses

RTH 412/512 Cr.3  
**Animal Assisted Therapy**  
This course demonstrates how to safely and ethically integrate animals into a variety of therapeutic settings while creating mutually beneficial relationships with animals and the environment. Differences between Animal Assisted therapy (AAT), Animal Assisted Activities (AAA), and certified Service Dogs are explored. A focus on the effects of Animal Assisted Therapy (AAT) as a recreational therapy intervention to address agitated behaviors and social interactions learned through research, practitioners, and observations. Site visits may include long-term health care facilities, specific animal use in physical medicine and rehabilitation facilities, equine-assisted psychotherapy, literacy programs in libraries, and/or agencies serving veterans with polytrauma. AAT, AAA, and Service Dog skills are applied through a series of learning experiences during this interactive course. This course includes direct contact with a trained Service Dog. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: admission to Recreational Therapy MS Program or Recreational Therapy BS/MS Dual Degree Program. Offered Occasionally.
RTH 414/514 Cr.3

**Recreational Therapy and Adaptive Sports**
This course introduces recreational therapists’ use of 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 sports, and possible settings where these take place. The examination of each sport includes a focus on its connection to the recreational therapy profession and professional processes used in the field. Hands-on experience with a variety of sports is included. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: admission to Recreational Therapy MS Program or Recreational Therapy BS/MS Dual Degree Program. Offered Occasionally.

RTH 516 Cr.3

**Recreational Therapy for Youth and Adolescents**
This class is designed to provide students with information relating to recreational therapy services for youth and adolescents with and without disabilities. Programming consideration includes treatment concerns, community inclusion, and leisure activities. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Offered Occasionally.

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 recreational therapy settings from international and domestic perspectives. The course provides 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. Offered Occasionally.

RTH 430/530 Cr.3

**Recreational Therapy 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 Occasionally.

RTH 432/532 Cr.3

**Recreational Therapy for Physical Disabilities**
This course is designed to provide students with information relating to recreational therapy services for individuals with physical disabilities. Programming considerations 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 Occasionally.

RTH 434/534 Cr.3

**Recreational Therapy for Individuals with Intellectual and Developmental Disabilities**
This course introduces students to recreational therapy interventions and facilitation techniques commonly used by professionals who work with individuals who have intellectual and developmental disabilities. The course emphasizes 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 Occasionally.

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. Prerequisite: admission to Recreational Therapy MS Program or Recreational Therapy BS/MS Dual Degree Program. Offered Occasionally.

RTH 456/556 Cr.3

**Program Design and Administration of Recreational Therapy**
This course is designed to present a rationale and foundation for systematic program design, program implementation and program evaluation in various recreational therapy settings. Students develop competence in the planning and development of evidenced-based recreational therapy programs using a structured and systematic process for purposes of improved client functioning and independence in life activities. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: RTH 319, RTH 352, RTH 355, RTH 376; or admission to the Recreational Therapy MS program. 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

**Recreational Therapy Processes and Facilitation Techniques**
In this course students implement the individualized treatment/program plan using appropriate evidence-based treatment interventions and programs to restore, remediate, or rehabilitate patient/client functioning as well as to reduce or eliminate the limitations to participation in life activities resulting from medical, psychiatric, or other disabling conditions. Included are processes for leading therapeutic groups, experiences of modalities and facilitation techniques, and counseling techniques and approaches for recreational therapy as an action therapy. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: RTH 319, RTH 352, RTH 355, RTH 376; or admission to the Recreational Therapy MS program. 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.1-3
Workshops in Recreational Therapy
Group study of varying recreational therapy 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 592 Cr.3
Clinical Education Experience in Recreational Therapy
This course provides opportunities to practice and integrate cognitive learning, with the associated psychomotor skills requirements of the profession, in accordance with professional standards of practice, to develop entry-level clinical proficiency and professional behavior as a recreational therapist as defined by professional guidelines for competencies necessary for safe and effective recreational therapy practice. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: RTH 319, RTH 352, RTH 355, RTH 376; or admission to the Recreational Therapy MS Program. Offered Fall, Spring.

RTH 700 Cr.1-6
Internship in Recreational Therapy
This course is a full-time field placement where students apply academic learning to demonstrate competencies associated with entry-level practice in recreational therapy. This includes involvement in the assessment of clients, planning and delivering recreational therapy services to clients, and evaluating these decisions. Additionally, the student gain experience with self-reflective learning through clinical supervision with both a faculty and clinical supervisor. Upon completion of the internship, students have the knowledge, skills, and abilities needed to assume the responsibilities of a recreational therapist. Prerequisite: RTH 556, RTH 570, RTH 593 or equivalents and/or approval of graduate program director and internship coordinator; admission to Recreational Therapy MS Program. Offered Fall, Spring, Summer.

RTH/REC 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 Recreational Therapy
This course provides a graduate level overview of recreational therapy including: historical and philosophical foundations of recreational therapy; disability education and medical language; and service learning applications. This course is specifically designed to help recreational therapy graduate students who do not have a recreational therapy undergraduate degree. Offered Occasionally.

RTH/REC 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 in Recreational Therapy
An investigation of the concepts and techniques utilized by the experienced and advanced recreational therapist including clinical issues, comprehensive program concerns, administrative functions and trends in the practice of recreational therapy service. Offered Spring.

RTH 740 Cr.3
Evidence-Based Practice in Recreational Therapy
This course provides both an overview of and builds expertise for incorporating evidence-based practice within recreational therapy 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.
School of Education (SOE) - Graduate Courses

Courses

SOE 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: teaching certification, a baccalaureate degree, and teaching experience. Consent of instructor. Offered Fall, Summer.

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 717 Cr.3
Child and Adolescent Mental Health for School Psychologists
This course provides overview and application of high incidence mental health disorders, specific to the school-based practitioner. Includes the study of etiology, symptoms and school-based treatment of mental health disorders in children. Prerequisite: admission to the School Psychology Program. Consent of instructor. Offered Summer.

SPY 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; admission to the School Psychology Program. Offered Summer.

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
This course will provide an in-depth review of best practices of formal and informal assessment techniques in early childhood. Students will learn procedural considerations in assessing the five early childhood developmental domains: cognition, physical, communication, social-emotional, and adaptive. 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: admission to the School Psychology Program. Offered Fall.
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 the 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 759 Cr.3  
**Assessment of Students with Emotional/Behavioral Needs**  
This course guides students in how to conduct a comprehensive assessment of children and adolescents with emotional and behavioral needs. Students learn how to apply problem solving, eligibility and equity lenses to the creation and implementation of an assessment plan that includes file reviews, interviews, observations and behavior rating scales. Students demonstrate their knowledge and skills through written exams, assessment reports summarizing the results of observations and behavior rating scales, and simulated role plays in which they explain assessment plans or results to mock parents. Prerequisite: SPY 757, SPY 775; admission to the School Psychology Program. 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 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 Fall.

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; SPY 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: SPY 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 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. Prerequisite: admission to the School Psychology Program. Consent of instructor. Offered Fall, Winter, Spring, Summer.

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.

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. Suitable 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: Prerequisite: grade of "C" or better in MTH 308 or MTH 309; 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, multivariate 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 345 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 345 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 345 or STAT 405/505. Offered Fall.

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 345 or STAT 405/505. Offered Fall.

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, discriminant 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 345 or STAT 405/505. Offered Fall - Odd Numbered Years.

STAT 456/556 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 763 Cr.3
**Special Topics in 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 765 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 766 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.
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 MSED 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 MSED 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 MSED 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 MSED 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 MSED 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 MSED 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 MSED 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 MSED 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. Prerequisite: admission to student affairs administration in higher education MSED program. 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: SAA 780; admission to student affairs administration in higher education MSED program. Consent of instructor. Offered Fall, Spring, Summer.

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 Fall.

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 or the Higher Education Leadership Graduate Certificate. 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
**Higher Education 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 or the Higher Education Leadership Graduate Certificate. Offered Spring, Summer.

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 Spring.

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 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 Fall.

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 Spring.

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 or the Higher Education Leadership Graduate Certificate. Offered Spring, Summer.

SAA 895 Cr.1

Independent Research
This research credit is available to doctoral students who have completed all other course work in the Student Affairs Administration and Leadership (SAAL) Ed.D. Program except SAA 990 and 995 and cannot enroll in those courses because they have not yet met the prerequisites. SAA 895 does not fulfill required or elective credits in the SAAL Ed.D. Program. It is an option for those who have completed all courses and wish to continue working with their dissertation chair. Students register for SAA 895 only when they are not registered for any other credits. Repeatable for credit - maximum four. Prerequisite: SAA 950. Consent of instructor. Pass/Fail grading. Offered Fall, Spring, Summer.

SAA 898 Cr.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 Summer.

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. Consent of instructor. Offered Fall, Spring, Summer.

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 and SAA 845 (both may be taken concurrently). 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 may be on-campus at UW-La Crosse over a long weekend and/or held virtually. 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 Fall.
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**
An overview of the teaching of English to speakers of other languages (ESOL) in the United States, topics include the history of bilingual and ESOL educational policies and practices in the U.S., historical and current program models for teaching English learners (ELs), and content-based instruction. Students learn how to plan for EL instruction in general education and ESOL classes. In addition, students develop skills to advocate for ELs 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, Spring, Summer.

TSL 450/550 Cr.1-3
**TESOL National/International Internship Program**
Through the TESOL Internship, students gain practical experience tutoring or teaching non-native speakers of English in a variety of settings, including high school tutoring programs, adult literacy programs, after-school enrichment programs, university-level ESL programs, and EFL programs abroad. Undergraduates who are seeking ESL licensure must complete at least one credit in a high school (grades 9-12) setting. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Repeatable for credit - maximum three. Consent of instructor. 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 as a second or foreign language (ESL/EFL). Students identify the historical development of approaches and methodologies for teaching ESL/EFL, understand foundational principles of teaching ESL/EFL, and explore individual English learner (EL) differences, including age/grade level and language proficiency level, 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, grammar, and vocabulary. Additionally, students explore materials and technology available for teaching ESL/EFL. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Consent of department. Offered Fall, Spring, Summer.

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.

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.
Faculty and Staff

As of July 31, 2023, based on records provided by the UWL Human Resource Office. Academic staff includes 50% and above appointments.

The faculty and staff emeriti directory (https://www.uwlax.edu/info/emeriti-directory/) can be found on the UWL website.

Michael Abler
Associate Professor
Biology
PHD, North Carolina State Univ
BS, Univ of Wisconsin-Madison

Amanda Abrahamson
Asst Dean Of Students - Int
Student Life Office
MA, University Of Mississippi
BS, Univ of Wisconsin-La Crosse

Gwen Achenreiner
Interim Cba - Assoc Dean
College of Business Admin
PHD, Univ of Minnesota-Twin Cities
MBA, St Cloud State University
BS, St Cloud State University

Brad Aden
Animal Facility Manager
Dean's Office-CSH

Jon Ailabouni
Assistant Teaching Professor
Music
MM, Western Michigan University

Michael Albrecht
Lecturer
Communication Studies
PHD, University of Iowa

Angel Allen
Multicultural Admissions Cnslr
Admissions
BS, Western Carolina University

Robert Allen
Interim Associate Dean
College of Science Health
PHD, George Mason University
MS, University of Virginia
BS, George Mason University
BS, University of Virginia

Richard Allenby
Instrumentation Engineer I
Physics
BA, Dartmouth College
BS, Univ of Wisconsin-La Crosse

Maegan Ames
Executive Assistant I
University Advancement
BS, Univ of Wisconsin-La Crosse

Kim Amundson

Early Child Edu Teacher
Campus Child Center
AA, Western Technical College

Julie Ancius
Assistant Teaching Professor
Accountancy
MBT, Univ of Minnesota-Twin Cities

Benjamin Anderson
Associate Teaching Professor
Mathematics Statistics
BS, North Dakota State University

Brandon Anderson
Assistant Professor
Communication Studies
PHD, University of Texas at Austin

David Anderson
Associate Professor
Archaeology Anthropology
PHD, University of Pittsburgh
MA, University of Pittsburgh
BA, University of Chicago

Erik Anderson
Research Archaeologist
Archaeology Center

Holly Anderson
Dir Of Advancement Services
University Advancement
BA, University of Pittsburgh

Joseph Anderson
Professor
Theatre and Dance
MFA, Univ of Minnesota-Twin Cities
BS, Minnesota State Univ, Mankato

Irina Andreeva-Cherveny
Assistant Teaching Professor
Mathematics Statistics
MS, St. Petersburg University
MS, Western Illinois University
BS, St. Petersburg University

Suzanne Anglehart
Teaching Professor
Microbiology
MEPD, Univ of Wisconsin-La Crosse
BS, Univ of Wisconsin-La Crosse

David Annino
Associate Teaching Professor
Information Systems
MBA, University of Georgia
BBA, University of Texas at Austin

Jeremy Arney
Assistant Professor
Political Science Public Admin
PHD, Univ of Colorado at Denver
MS, Colorado State University
BA, Colorado State University

Constance Arzigian
Teaching Professor  
Archaeology Anthropology  
PHD, Univ of Wisconsin-Madison  
MA, Univ of Wisconsin-Madison  
BA, Catholic University Of America

Christine Ascencio  
Assistant Professor  
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