FRESHWATER SCIENCES (FRSHWTR)

FRSHWTR 190 Topics in Freshwater Sciences:
1-3 cr. Undergraduate.
Current issues in freshwater sciences for undergraduates.
Prerequisites: none, except as may be required for specific topics.
Course Rules: May be retaken w/chg in topic to 9 cr max.
General Education Requirements: NS
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 191 Great Lakes Ecology
3 cr. Undergraduate.
A select history of Great Lakes ecosystem change.
Prerequisites: none.
Course Rules: Counts as repeat of Frshwtr 190 with similar topic.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 461 Politics and Policy of Sustainability
3 cr. Undergraduate/Graduate.
Principles of environmental policy, governance, and management for global sustainability.
Prerequisites: jr st; CES 210(P) or cons instr.
Course Rules: CES 461, Frshwtr 461, & Global 461 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2018, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 461G Politics and Policy of Sustainability
3 cr. Undergraduate/Graduate.
Principles of environmental policy, governance, and management for global sustainability.
Prerequisites: jr st; CES 210(P) or cons instr.
Course Rules: CES 461, Frshwtr 461, & Global 461 are jointly offered; they count as repeats of one another.
Last Taught: Fall 2018, Spring 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 464 Chemical Hydrogeology
4 cr. Undergraduate/Graduate.
Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; CHEM 102(P).
Course Rules: FRSHWTR 464 & GEO SCI 464 are jointly-offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 464G Chemical Hydrogeology
4 cr. Undergraduate/Graduate.
Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. 3 hrs lec, 3 hrs lab.
Prerequisites: jr st; CHEM 102(P).
Course Rules: FRSHWTR 464 & GEO SCI 464 are jointly-offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 496 UROP Apprenticeship, Upper-Level
1-3 cr. Undergraduate.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.
Prerequisites: jr st; acceptance to UROP; prior or conc reg in UROP seminar.
Course Rules: May be retaken to 9 cr max in any combination of UROP apprenticeship courses.
Last Taught: Spring 2017, Fall 2013.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 497 Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: UWinteriM 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 497G Study Abroad:
1-12 cr. Undergraduate/Graduate.
Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.
Prerequisites: jr st; acceptance for Study Abroad Prog.
Course Rules: May be retaken w/chg in topic.
Last Taught: UWinteriM 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 498 Undergraduate Research
1-3 cr. Undergraduate.
Undergraduate research on faculty-supervised research projects.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 502 Aquatic Ecosystem Dynamics
3 cr. Undergraduate/Graduate.
Interdisciplinary, quantitative approach to understanding large lake dynamic processes, including geological formation, hydrology, hydrodynamics, chemistry and the dynamics of plankton and fish communities.
Prerequisites: jr st; 1 sem calculus or algebra; 2 sem Physics, Chem, or Bio Sci; or cons instr.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/
FRSHWTR 502G Aquatic Ecosystem Dynamics
3 cr. Undergraduate/Graduate.
Interdisciplinary, quantitative approach to understanding large
lake dynamic processes, including geological formation, hydrology,
hydrodynamics, chemistry and the dynamics of plankton and fish
communities.
Prerequisites: jr st, 1 sem calculus or algebra; 2 sem Physics, Chem, or
Bio Sci; or cons instr.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 504G Quantitative Freshwater Analysis
3 cr. Undergraduate/Graduate.
A fundamental set of tools for the quantitative analysis of environmental
data sets, with an emphasis on the calculation of reservoirs, residence
times and rates in aquatic systems.
Prerequisites: jr st, 1 sem calculus, Physics, Chem, & Bio Sci; or cons
instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 504 Quantitative Freshwater Analysis
3 cr. Undergraduate/Graduate.
A fundamental set of tools for the quantitative analysis of environmental
data sets, with an emphasis on the calculation of reservoirs, residence
times and rates in aquatic systems.
Prerequisites: jr st, 1 sem calculus, Physics, Chem, & Bio Sci; or cons
instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 506 Environmental Health of Freshwater Ecosystems
3 cr. Undergraduate/Graduate.
The influences of human-induced environmental change on the health of
freshwater ecosystems and humans who interact with these systems.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 506G Environmental Health of Freshwater Ecosystems
3 cr. Undergraduate/Graduate.
The influences of human-induced environmental change on the health of
freshwater ecosystems and humans who interact with these systems.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 508 Aquatic Technologies
3 cr. Undergraduate/Graduate.
Interdisciplinary perspective on the function, application and
development of technologies used in the aquatic sciences.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 508G Aquatic Technologies
3 cr. Undergraduate/Graduate.
Interdisciplinary perspective on the function, application and
development of technologies used in the aquatic sciences.
Prerequisites: jr st.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 502 Economics, Policy and Management of Water
3 cr. Undergraduate/Graduate.
The impact of economics, policy and management decisions on our
freshwater resources and how science and economics affect these
decisions.
Prerequisites: jr st.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 510G Economics, Policy and Management of Water
3 cr. Undergraduate/Graduate.
The impact of economics, policy and management decisions on our
freshwater resources and how science and economics affect these
decisions.
Prerequisites: jr st.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 511 Ichthyology
3 cr. Undergraduate/Graduate.
The diverse biology of fishes focusing on behavioral, biomechanical,
genetic, and physiological adaptions to diverse ecological systems.
Prerequisites: jr st; grade of C or better in Bio Sci 310(P); or cons instr.
Course Rules: Bio Sci 511 & Frshwtr 511 are jointly offered; they count as
repeats of one another.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 511G Ichthyology
3 cr. Undergraduate/Graduate.
The diverse biology of fishes focusing on behavioral, biomechanical,
genetic, and physiological adaptions to diverse ecological systems.
Prerequisites: jr st; grade of C or better in Bio Sci 310(P); or cons instr.
Course Rules: Bio Sci 511 & Frshwtr 511 are jointly offered; they count as
repeats of one another.
Last Taught: Fall 2018, Fall 2017.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 512 Freshwater Sciences Practicum:
2-4 cr. Undergraduate/Graduate.
Diverse opportunities for practical, hands-on experience in the practice
of freshwater science with emphasis on team work, problem solving, field
work, and dissemination of results.
Prerequisites: jr st, Frshwtr 502(P) & 504(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: UWinterM 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 512G Freshwater Sciences Practicum:
2-4 cr. Undergraduate/Graduate.
Diverse opportunities for practical, hands-on experience in the practice
of freshwater science with emphasis on team work, problem solving, field
work, and dissemination of results.
Prerequisites: jr st, Frshwtr 502(P) & 504(P); or cons instr.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: UWinterM 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/
FRSHWTR 513 Field Experimentation and Analysis in Freshwater Sciences  
3 cr. Undergraduate/Graduate.  
Student acquisition of comprehensive investigative procedures in freshwater ecology focusing on field and laboratory interactive assignments.  
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P); or grad st.  
Last Taught: Fall 2018, Fall 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 513G Field Experimentation and Analysis in Freshwater Sciences  
3 cr. Undergraduate/Graduate.  
Student acquisition of comprehensive investigative procedures in freshwater ecology focusing on field and laboratory interactive assignments.  
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P); or grad st.  
Last Taught: Fall 2018, Fall 2017.  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 514 Analytical Techniques in Freshwater Sciences  
3 cr. Undergraduate/Graduate.  
Modern analytical techniques and genomics principles and methods in freshwater sciences.  
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P); or grad st.  
Course Rules: Counts as repeat of Frshwtr 650 w/same topic.  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 514G Analytical Techniques in Freshwater Sciences  
3 cr. Undergraduate/Graduate.  
Modern analytical techniques and genomics principles and methods in freshwater sciences.  
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P); or grad st.  
Course Rules: Counts as repeat of Frshwtr 650 w/same topic.  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 522 Aquatic Organic Biogeochemistry  
3 cr. Undergraduate/Graduate.  
Fluxes and biogeochemical cycling pathways of dissolved, colloidal and particulate organic matter across interfaces in aquatic systems.  
Prerequisites: jr st & 1 sem Chem, or cons instr.  
Last Taught: Fall 2017, Fall 2015.  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 522G Aquatic Organic Biogeochemistry  
3 cr. Undergraduate/Graduate.  
Fluxes and biogeochemical cycling pathways of dissolved, colloidal and particulate organic matter across interfaces in aquatic systems.  
Prerequisites: jr st & 1 sem Chem, or cons instr.  
Last Taught: Fall 2017, Fall 2015.  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 524 Aquatic Isotope Biogeochemistry  
3 cr. Undergraduate/Graduate.  
Principles and applications of stable and radioactive isotopes and other biogeochemical tracers in aquatic environments.  
Prerequisites: jr st.  
Last Taught: Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 524G Aquatic Isotope Biogeochemistry  
3 cr. Undergraduate/Graduate.  
Principles and applications of stable and radioactive isotopes and other biogeochemical tracers in aquatic environments.  
Prerequisites: jr st.  
Last Taught: Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 562 Principles of Aquaculture Systems  
3 cr. Undergraduate/Graduate.  
Physical and chemical aspects of intensive & recirculating operations of aquaculture production systems.  
Prerequisites: jr st; BioSci 152 (P); Chem 104(P); Math 116(P).  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 562G Principles of Aquaculture Systems  
3 cr. Undergraduate/Graduate.  
Physical and chemical aspects of intensive & recirculating operations of aquaculture production systems.  
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P); Math 116(P).  
Last Taught: Fall 2018, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 563 Finfish Aquaculture and Nutrition Principles  
3 cr. Undergraduate/Graduate.  
Principles of aquaculture and fish nutrition; emphasis on Great Lakes; future challenges to aquaculture development in North America.  
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P).  
Last Taught: Fall 2018, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 563G Finfish Aquaculture and Nutrition Principles  
3 cr. Undergraduate/Graduate.  
Principles of aquaculture and fish nutrition; emphasis on Great Lakes; future challenges to aquaculture development in North America.  
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P).  
Last Taught: Fall 2018, Fall 2016.  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 564 Water Quality in Aquaculture  
3 cr. Undergraduate/Graduate.  
Principles of water chemistry & microbial conversion of nutrients; microorganisms that impact fish health; for successful operation of intensive aquaculture operations.  
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P).  
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 564G Water Quality in Aquaculture  
3 cr. Undergraduate/Graduate.  
Principles of water chemistry & microbial conversion of nutrients; microorganisms that impact fish health; for successful operation of intensive aquaculture operations.  
Prerequisites: jr st; Bio Sci 152(P); Chem 104(P).  
Current Offerings: https://catalog.uwm.edu/course-search/
FRSHWTR 565 Fish Health
3 cr. Undergraduate/Graduate.
Overview of current and emerging fish diseases and treatment strategies to diagnose and identify pathogens and disease to mitigate spread of disease.
Prerequisites: jr st, Bio Sci 152(P); Chem 104(P).
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 565G Fish Health
3 cr. Undergraduate/Graduate.
Overview of current and emerging fish diseases and treatment strategies to diagnose and identify pathogens and disease to mitigate spread of disease.
Prerequisites: jr st, Bio Sci 152(P); Chem 104(P).
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 584 Aquatic Ecosystem Services Valuation
3 cr. Undergraduate/Graduate.
Economic theory and methods in valuing aquatic and related terrestrial ecosystems.
Prerequisites: jr st.
Course Rules: Counts as repeat of Frshwr 650 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 584G Aquatic Ecosystem Services Valuation
3 cr. Undergraduate/Graduate.
Economic theory and methods in valuing aquatic and related terrestrial ecosystems.
Prerequisites: jr st.
Course Rules: Counts as repeat of Frshwr 650 with same topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 621 Benthic Ecology
3 cr. Undergraduate/Graduate.
Chemophysical and biological interactions in freshwater and marine systems. Emphasis on invertebrate ecology. 2 hrs lec, 4 hrs lab.
Prerequisites: sr st & cons instr; or grad st.
Course Rules: Req’d field work for which fee is assessed.
Last Taught: Spring 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 621G Benthic Ecology
3 cr. Undergraduate/Graduate.
Chemophysical and biological interactions in freshwater and marine systems. Emphasis on invertebrate ecology. 2 hrs lec, 4 hrs lab.
Prerequisites: sr st & cons instr; or grad st.
Course Rules: Req’d field work for which fee is assessed.
Last Taught: Spring 2014, Fall 2012.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 630 Leadership in Science: Tackling Wicked Problems
3 cr. Undergraduate/Graduate.
Extends learning and practice into the role and relationships with individuals and groups in the leadership process in the context of wicked problems.
Prerequisites: jr st. or higher.
Course Rules: Counts as repeat of Frshwr 650 with similar topic.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 630G Leadership in Science: Tackling Wicked Problems
3 cr. Undergraduate/Graduate.
Extends learning and practice into the role and relationships with individuals and groups in the leadership process in the context of wicked problems.
Prerequisites: jr st. or higher.
Course Rules: Counts as repeat of Frshwr 650 with similar topic.
Last Taught: Spring 2019.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 640 Sequence Analysis
3 cr. Undergraduate/Graduate.
Molecular biology underlying nucleic and amino acid analyses and the tools available to conduct comparative sequence analysis.
Prerequisites: jr st; BIO SCI 152(P), BIO SCI 325(P), & CHEM 104(P); or grad st.
Course Rules: Counts as repeat of Frshwr 512 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 640G Sequence Analysis
3 cr. Undergraduate/Graduate.
Molecular biology underlying nucleic and amino acid analyses and the tools available to conduct comparative sequence analysis.
Prerequisites: jr st; BIO SCI 152(P), BIO SCI 325(P), & CHEM 104(P); or grad st.
Course Rules: Counts as repeat of Frshwr 512 with similar topic.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 650 Topics in Freshwater Sciences:
1-3 cr. Undergraduate/Graduate.
Current issues in freshwater sciences.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 650G Topics in Freshwater Sciences:
1-3 cr. Undergraduate/Graduate.
Current issues in freshwater sciences.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2019, Fall 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 690 Undergraduate Seminar in Freshwater Sciences:
1-3 cr. Undergraduate.
Seminar on topics of current interest in freshwater sciences.
Prerequisites: jr st.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/
FRSHWTR 695 Independent Study in Freshwater Sciences for Biological Sciences Students
1-3 cr. Undergraduate.
Independent and original research on a topic not available as a regular course; conducted under the direction of faculty or staff scientist from the School of Freshwater Science.
Prerequisites: jr st; Bio Sci 325 (P); one of Bio Sci 310(P), 315(P)/316(P), or 383(P); 2.500 GPA; writ cons instr, dept chair, & asst dean for SAS.
Course Rules: Bio Sci 695 & Frshwtr 695 are jointly offered; w/ same subject, they count as repeats of one another. May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.
Last Taught: Spring 2019, Fall 2016, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 699 Independent Study for Undergraduates
1-3 cr. Undergraduate.
Independent study on a topic not available as a regular course; conducted under the supervision of a faculty member; requires approved study proposal.
Prerequisites: jr st; cons instr.
Course Rules: May be retaken to 6 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 781 Water Law for Scientists and Policy Makers
3 cr. Graduate.
The course is formatted to provide five (5) classes each on the Clean Water Act and basic common law concepts of Water Law; The Great Lakes Compact; and Wisconsin's Groundwater Protection Act. Counts as repeat of Frsh Wtr 650 with similar topic.
Prerequisites: grad st.
Last Taught: Spring 2019, Fall 2017, Fall 2016.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 782 Water Resources Planning
3 cr. Graduate.
Emphasis on planning for water across the water cycle (surface, groundwater, wetlands, etc.), integrating non-water resources (habitat, energy, GHG emissions, etc.) in an urban context.
Prerequisites: grad st.
Course Rules: Jointly offered with & counts as repeat of UrbPlan 782.
Last Taught: Spring 2019, Fall 2014.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 790 Freshwater Policy and Governance
3 cr. Graduate.
The main theoretical frameworks used in public policy to study environmental problems.
Prerequisites: grad st.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 810 Professional Development for Water Leaders
3 cr. Graduate.
Exploration of skill set needed for lifelong career development: research ethics, communications, teamwork, interpersonal relationships, administration, entrepreneurship, project management, and leadership.
Prerequisites: Counts as repeat of FrshWtr 650 with similar topic. Prereq grad st.
Last Taught: Fall 2018, Fall 2017, Fall 2016, Fall 2015.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 822 Molecular & Cellular Basis of Environmental Disease
3 cr. Graduate.
Examines how environmental agents cause changes in gene expression, structure, and activity leading to disease; and resulting alterations in normal cellular processes and physiological consequences.
Prerequisites: grad st
Course Rules: Frshwtr 822 & EOH 822 are jointly-offered; they count as repeats of one another.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 888 Candidate for Degree
0 cr. Graduate.
Available for grad students who must meet minimum credit load requirement. Fee for 1 credit assessed.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 900 Colloquium in Freshwater Sciences
1 cr. Graduate.
Lectures by staff and visitors on research in various areas of freshwater sciences.
Prerequisites: grad st.
Course Rules: Retakable up to 2 cr.
Last Taught: Spring 2019, Fall 2018, Spring 2018.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 901 Seminar in Freshwater Sciences:
1-3 cr. Graduate.
Seminar on topics of current interest in freshwater sciences.
Prerequisites: grad st.
Course Rules: May be repeated w/ chg in topic to 9 cr max.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 980 Graduate Internship
1-3 cr. Graduate.
Students earn credits for serving in an internship that involves work related to freshwater sciences disciplines. They must prepare a report based on the internship. Retakable w/chg in topic to 6 cr max. Satisfactory/Unsatisfactory only.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 985 Master's Research and Thesis
1-6 cr. Graduate.
Research and writing of the master’s thesis under the supervision of the major professor.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/

FRSHWTR 990 Doctoral Research and Dissertation
1-9 cr. Graduate.
Research and writing of the doctoral dissertation under the supervision of the major professor.
Prerequisites: grad st; cons instr.
Current Offerings: https://catalog.uwm.edu/course-search/
FRSHWTR 999 Independent Study
1-3 cr. Graduate.
For graduate students unable to secure needed content in regular courses.
**Prerequisites:** grad st; cons instr.
**Course Rules:** Retakable w/ chg in topic to 6 cr max.
**Last Taught:** Spring 2019, Fall 2018, Spring 2018, Fall 2017.
**Current Offerings:** https://catalog.uwm.edu/course-search/