

CONSERVATION AND ENVIRONMENTAL SCIENCES (CES)

Conservation and Environmental Sciences Courses

CES 199 Independent Study

1-3 cr. Undergraduate.

For further information, consult dept chair.

Prerequisites: 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

Course Rules: Retakable to 6 cr max.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 210 Introduction to Conservation and Environmental Science

3 cr. Undergraduate.

Relations between human populations and resource depletion, pollution and ecosystem disturbance; search for solutions. Discussion section includes some community activities with environmental organization. 2 hrs lec, 1 hr dis

Prerequisites: none.

General Education Requirements: NS

Last Taught: Spring 2025, Fall 2024, Spring 2024, Fall 2023.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 289 Internship in Environmental Studies, Lower Division

1-6 cr. Undergraduate.

Application of basic principles of environmental studies in a business, organizational, educational, political, or other appropriate setting.

Prerequisites: introductory course in CES; 2.50 GPA, and consent of supervising faculty member.

Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.

Last Taught: Fall 2023, Fall 2021, Spring 2011, Summer 2010.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 297 Study Abroad:

1-12 cr. Undergraduate.

Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

Prerequisites: acceptance for Study Abroad Prog.

Course Rules: Retakable w/chg in topic.

Last Taught: Fall 2022, Spring 2022, Fall 2019, Spring 2019.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 299 Ad Hoc:

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

Prerequisites: none; add'l prereqs may be assigned to specific topic.

Course Rules: Retakable w/chg in topic.

Last Taught: Spring 1984.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 390 Changing Climate: A Conservation and Sustainability Approach

3 cr. Undergraduate.

Students explore the challenges of the past alongside current science, policy, and action to discover the opportunities emerging in our global future. International non-governmental organizations and empirical evidence support effective solutions.

Prerequisites: BIO SCI 150(P), CES 210(P), or FRSHWTR 101(P); or consent of instructor.

Last Taught: Spring 2025.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 431 Natural History of Wisconsin: A Field Survey

2 cr. Undergraduate.

Field approaches across the natural sciences, survey of diversity of living and non-living components of systems studied by scientists over time, features of Wisconsin's representative plant communities and animal habitat near campus.

Prerequisites: declared CES major or consent of instructor.

Course Rules: Counts as a repeat of CES 451 or BIO SCI 451.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 451 Field Methods in Conservation

3 cr. Undergraduate/Graduate.

Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience.

Prerequisites: junior standing and BIO SCI 310(P) or equivalent; or consent of instructor.

Course Rules: 2 hr lec, 3 hrs lab. BIO SCI 451 and CES 451 are jointly offered and count as repeats of one another.

Last Taught: Fall 2022, Fall 2021.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 451G Field Methods in Conservation

3 cr. Undergraduate/Graduate.

Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience.

Prerequisites: junior standing and BIO SCI 310(P) or equivalent; or consent of instructor.

Course Rules: 2 hr lec, 3 hrs lab. BIO SCI 451 and CES 451 are jointly offered and count as repeats of one another.

Last Taught: Fall 2022, Fall 2021.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 461 The Politics and Policy of Sustainability

3 cr. Undergraduate/Graduate.

Principles of environmental policy, governance, and management for global sustainability.

Prerequisites: junior standing; CES 210(P) or consent of instructor.

Course Rules: CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.

Last Taught: Fall 2021, Fall 2020.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 461G The Politics and Policy of Sustainability

3 cr. Undergraduate/Graduate.

Principles of environmental policy, governance, and management for global sustainability.

Prerequisites: junior standing; CES 210(P) or consent of instructor.

Course Rules: CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.

Last Taught: Fall 2021, Fall 2020.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 471 Practicum in Natural Resources Management

4 cr. Undergraduate/Graduate.

Preparation and presentation of a natural resource or environmental management plan for a real-world client.

Prerequisites: senior standing, BIO SCI 310(P), declared CES major, and at least 6 credits of CES approved upper-level electives; or consent of instructor.

Course Rules: 2 hr lecture, twice per week.

Last Taught: Spring 2025.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 471G Practicum in Natural Resources Management

4 cr. Undergraduate/Graduate.

Preparation and presentation of a natural resource or environmental management plan for a real-world client.

Prerequisites: senior standing, BIO SCI 310(P), declared CES major, and at least 6 credits of CES approved upper-level electives; or consent of instructor.

Course Rules: 2 hr lecture, twice per week.

Last Taught: Spring 2025.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 489 Internship in Environmental Studies, Upper Division

1-6 cr. Undergraduate.

Application of advanced principles of environmental studies in a business, organizational, educational, political, or other appropriate setting.

Prerequisites: junior standing; 300-level or above course in conservation and environmental science; 2.5 GPA and consent of supervising faculty member.

Course Rules: One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.

Last Taught: Summer 2025, Spring 2025, Fall 2024, Summer 2024.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 497 Study Abroad:

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

Prerequisites: junior standing and acceptance for Study Abroad Program.

Course Rules: Retakable with change in topic.

Last Taught: Spring 2023, Fall 2019, Fall 2018, Spring 2018.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 499 Ad Hoc:

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires department and associate dean approval. In exceptional circumstances, can be offered in one additional semester.

Prerequisites: junior standing; additional prerequisites may be assigned to specific topic.

Course Rules: Retakable with change in topic.

Last Taught: Spring 2016, Fall 2015, Fall 2014, Fall 2011.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 515 Environmental Law for Natural Resource Managers

3 cr. Undergraduate/Graduate.

Overview of United States environmental and natural resource law.

Prerequisites: junior standing or consent of instructor.

Course Rules: Counts as repeat of CES 499 with same topic.

Last Taught: Spring 2025, Spring 2024.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 515G Environmental Law for Natural Resource Managers

3 cr. Undergraduate/Graduate.

Overview of United States environmental and natural resource law.

Prerequisites: junior standing or consent of instructor.

Course Rules: Counts as repeat of CES 499 with same topic.

Last Taught: Spring 2025, Spring 2024.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 550 Introduction to Science Interpretation

3 cr. Undergraduate/Graduate.

Concepts and practices of presenting science information for audience understanding of impact of science on daily life. Interpretation techniques for science content in nonformal settings.

Prerequisites: junior standing and CES 210(P); or consent of instructor.

Last Taught: UWinteriM 2017, UWinteriM 2015.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 550G Introduction to Science Interpretation

3 cr. Undergraduate/Graduate.

Concepts and practices of presenting science information for audience understanding of impact of science on daily life. Interpretation techniques for science content in nonformal settings.

Prerequisites: junior standing and CES 210(P); or consent of instructor.

Last Taught: UWinteriM 2017, UWinteriM 2015.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 651 Principles of Stream Management and Restoration

3 cr. Undergraduate/Graduate.

Stream management and restoration, open-channel hydraulics, stream geomorphology, stable channel design, sediment transport, and in-stream aquatic ecology and riparian corridor habitats.

Prerequisites: junior standing, BIO SCI 310(P), and MATH 211(P) or equivalents; or consent of instructor.

Last Taught: Fall 2024.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 651G Principles of Stream Management and Restoration

3 cr. Undergraduate/Graduate.

Stream management and restoration, open-channel hydraulics, stream geomorphology, stable channel design, sediment transport, and in-stream aquatic ecology and riparian corridor habitats.

Prerequisites: junior standing, BIO SCI 310(P), and MATH 211(P) or equivalents; or consent of instructor.

Last Taught: Fall 2024.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CES 699 Advanced Independent Study

1-3 cr. Undergraduate.

Advanced level independent work under the supervision of CES faculty or academic staff member.

Prerequisites: junior standing, 2.0 GPA, and consent of instructor, department chair, and Assistant Dean for Student Academic Services.

Course Rules: Retakable with change in topic to 9 cr max.

Last Taught: Fall 2022, Spring 2020, Fall 2019, Fall 2018.

Current Offerings: <https://catalog.uwm.edu/course-search/>