

CONSERVATION AND ENVIRONMENTAL SCIENCES (CES)

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 2023, Fall 2022, Spring 2022, Fall 2021.

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: intro course in CES; 2.50 gpa; cons 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 2021, Spring 2011, Summer 2010, Spring 2010.

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

CES 290 Seminar: Cool Power to Slow Global Warming

3 cr. Undergraduate.

Climate change - myth? science? Global warming causes; energy for sustainability; non-renewable (coal, oil, nuclear power), renewable (sun, wind, hydro, biomass, biogas) sources; predictions for 2050.

Prerequisites: none.

General Education Requirements: NS

Last Taught: Spring 2007.

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 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. 2 hr lec, 3 hrs lab.

Prerequisites: jr st; Bio Sci 310(P) or equiv or cons instr.

Course Rules: Jointly offered with and counts as repeat of Bio Sci 451.

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. 2 hr lec, 3 hrs lab.

Prerequisites: jr st; Bio Sci 310(P) or equiv or cons instr.

Course Rules: Jointly offered with and counts as repeat of Bio Sci 451.

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. 3 hrs lec, 1 hr dis.

Prerequisites: sr st; Bio Sci 310(P); declared CES major; or cons instr.

Last Taught: Spring 2023, Fall 2022.

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. 3 hrs lec, 1 hr dis.

Prerequisites: sr st; Bio Sci 310(P); declared CES major; or cons instr.**Last Taught:** Spring 2023, Fall 2022.**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: jr st; 300-level or above course in Conservation & Environmental Sciences; 2.5 gpa; cons 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 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 490 Senior Seminar: Conservation and Environmental Science**

1 cr. Undergraduate.

Examination of conservation literature and preparation, presentation, and discussion of oral reports by individual students.

Prerequisites: sr st; Conservation & Environmental Sciences major or Bio Sci major.**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.**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: jr st; acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg 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 only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

Prerequisites: jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** Retakable w/chg 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: jr st or cons instr.**Course Rules:** Counts as repeat of CES 499 with same topic.**Last Taught:** Spring 2023.**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: jr st or cons instr.**Course Rules:** Counts as repeat of CES 499 with same topic.**Last Taught:** Spring 2023.**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: jr st; CES 210(P) or cons instr.**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: jr st; CES 210(P) or cons instr.**Last Taught:** UWinterIM 2017, UWinterIM 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 551 Application of Science Interpretation**

3 cr. Undergraduate/Graduate.

Building upon CES 550, application of skills and knowledge to interdisciplinary environmental issues.

Prerequisites: jr st; CES 550(P).**Last Taught:** Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 551G Application of Science Interpretation**

3 cr. Undergraduate/Graduate.

Building upon CES 550, application of skills and knowledge to interdisciplinary environmental issues.

Prerequisites: jr st; CES 550(P).**Last Taught:** Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 571 Practical Approaches to a Sustainable Future**

3 cr. Undergraduate.

Natural ecological principles used to develop sustainable human-influenced environments. Emphasis on practical solutions to assess and develop alternative sustainable human agroecological models.

Prerequisites: jr st; grade C or better in CES 210(P).**Course Rules:** Counts as a repeat of CES 499 w/similar topic.**Last Taught:** Spring 2015, Spring 2014, Fall 2013, Fall 2012.**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: jr st; Bio Sci 310(P) or equiv; Math 211(P) or equiv; or cons instr.**Last Taught:** Fall 2022.**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: jr st; Bio Sci 310(P) or equiv; Math 211(P) or equiv; or cons instr.

Last Taught: Fall 2022.

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: jr st; 2.0 GPA; 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/>