



## 2017-2018 PROGRAM REQUIREMENTS Minor: Watershed Science

### **About This Minor. . .**

The minor in watershed science is an interdisciplinary program designed to serve the regional need for scientists with a strong background in water-related issues (e.g., Bureau of Land Management, U.S. Geological Survey, U.S. Forest Service (U.S.F.S.), U.S. Fish and Wildlife Service, and the Colorado Division of Wildlife). Some government agencies, such as the U.S.F.S., are shifting their management organization to focus on watersheds, and this minor supports needs in this area.

The minor complements majors in physical and environmental science and biology by providing students in these fields with certification of focused coursework. Combined with the relevant B.S., plus additional calculus and physics courses, the minor satisfies the federal government's requirements for qualification as a hydrologist. The proximity of Colorado Mesa to the Colorado, Gunnison, and Green Rivers, the drainages of the Colorado National Monument, and the high arroyos create an ideal location for the study of watershed science.

### **Advising Process and DegreeWorks**

This document is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfil the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

### **Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

**INSTITUTIONAL MINOR REQUIREMENTS**

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives **can** be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

**PROGRAM-SPECIFIC MINOR REQUIREMENTS**

- 18 semester hours for the Minor in Watershed Science
- 2.00 cumulative GPA or higher in the minor is required

**REQUIRED COURSES FOR THE WATERSHED SCIENCE MINOR** (18 semester hours)

- GEOL 355 - Basic Hydrology (3)
- GEOL 455 - River Dynamics (3)
- GEOL 455L - River Dynamics Laboratory (1)
- ENVS 331 - Water Quality (3)
- ENVS 331 - Water Quality Laboratory (1)

Choose seven semester hours from the list below:

- BIOL 414 - Aquatic Biology (3) with BIOL 414L - Aquatic Biology Laboratory (1)
- CHEM 300 - Environmental Chemistry (4)
- ENVS 312 - Soils Science and Sustainability (3) with ENVS 312L - Soils Science and Sustainability Laboratory (1)
- ENVS 433 - Restoration of Aquatic Systems (3)
- GEOL 394 - Natural Resources of the West (1)
- GEOL 402 - Applications of Geomorphology (3) with GEOL 402L - Applications of Geomorphology Laboratory (1)
- GEOL 415 - Intro to Ground Water (3) with GEOL 415L - Intro to Ground Water Laboratory (1)
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