



2008 – 09 PETITION/PROGRAM SHEET  
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 Mesa State 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.

POLICIES:

1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the MSC Catalog for a complete list of graduation requirements.
2. You must turn in your "Intent to Graduate" form to the Registrar's Office **by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.**
3. This program sheet must be submitted with your graduation planning sheet to your advisor during the **semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates.**
4. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature.
5. Finally, the Department Head or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
6. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
7. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).

NAME: \_\_\_\_\_ STUDENT ID # \_\_\_\_\_

LOCAL ADDRESS AND PHONE NUMBER: \_\_\_\_\_

\_\_\_\_\_( ) \_\_\_\_\_

I, (Signature) \_\_\_\_\_, hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

\_\_\_\_\_  
Signature of Watershed Science Advisor

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Department Head

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Registrar

\_\_\_\_\_  
Date

**Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.** See the “Undergraduate Graduation Requirements” in the Mesa State College catalog for additional graduation information.

**Minor Requirements:**

- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- 2.00 cumulative GPA or higher in the minor is required
- The number of minors a student may receive at Mesa State College shall not exceed two.
- Program sheets are for advising purposes only. Because a program may have requirements specific to the degree, check with your advisor for additional guidelines, including prerequisites, grade point averages, grades, exit examinations, and other expectations. It is the student’s responsibility to be aware of, and follow, all guidelines for the degree being pursued. Any exceptions or substitutions must be approved by the faculty advisor and/or Department Head.

**REQUIRED COURSES (18 Semester Hours Minimum)**

See the current Mesa State College catalog for a list of courses that fulfill the requirements below.

| Course No | Title              | Sem.hrs | Grade | Term  |
|-----------|--------------------|---------|-------|-------|
| GEOL 355  | Basic Hydrology    | 3       | _____ | _____ |
| GEOL 455  | River Dynamics     | 3       | _____ | _____ |
| GEOL 455L | River Dynamics Lab | 1       | _____ | _____ |
| ENVS 331  | Water Quality      | 3       | _____ | _____ |
| ENVS 331L | Water Quality Lab  | 1       | _____ | _____ |

**Seven semester hours (minimum) from the following:**

|            |                         |   |       |       |
|------------|-------------------------|---|-------|-------|
| BIOL* 414  | Aquatic Biology         | 3 | _____ | _____ |
| BIOL* 414L | Aquatic Biology Lab     | 1 | _____ | _____ |
| CHEM 300   | Environmental Chemistry | 4 | _____ | _____ |

| Course No  | Title                               | Sem.hrs | Grade | Term  |
|------------|-------------------------------------|---------|-------|-------|
| ENVS* 312  | Soil Science and Sustainability     | 3       | _____ | _____ |
| ENVS* 312L | Soil Science and Sustainability Lab | 1       | _____ | _____ |
| ENVS 433   | Restoration of Aquatic Systems      | 3       | _____ | _____ |
| GEOL 396   | Topics: Water Seminar               | 1       | _____ | _____ |
| GEOL 402   | Applications of Geomorphology       | 3       | _____ | _____ |
| GEOL 402L  | Applications of Geomorphology Lab   | 1       | _____ | _____ |
| GEOL* 415  | Intro to Ground Water               | 3       | _____ | _____ |
| GEOL* 415L | Intro to Ground Water Lab           | 1       | _____ | _____ |

\*Lecture and lab must be taken together