### Environmental Science, B.S., Water Quality Concentration

**303-556-3143 Science 2028**

**Catalog 12-13**

This sheet applies to the 2012-13 catalog only. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors must work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

| General Studies | 36 min |
| Major courses   | 83     |
| Electives       | 1      |
| Total to graduate (min. 40 hrs upper-division) | 120 min |

Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.

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#### Written Communication

*TO BE COMPLETED WITHIN FIRST 30 COLLEGE-LEVEL CREDIT HOURS*

- **ENG 1010** (3 hrs.) Freshman English: The Essay*

**or**

- **ENG 1008/1009** (6 hrs.) Freshman Comp: The Essay Part I & II*

- **ENG 1020** (3 hrs.) Freshman English: Anal., Rsrch. & Docum. (must be completed within 45 credit hours)

#### Quantitative Literacy*

- **MTH 1210** (4 hrs.) Introduction to Statistics

#### Oral Communication*

- **3 hrs.**

#### Arts and Humanities

- **3 hrs.**

- **3 hrs.**

#### Historical

- **3 hrs.**

#### Natural and Physical Sciences

- **CHE 1800** (4 hrs.) General Chemistry I

- **GEL 1010** (4 hrs.) Physical Geology

#### Social and Behavioral Sciences I

- **3 hrs.** (See catalog)

#### Social and Behavioral Sciences II

- **3 hrs.** (See catalog)

#### Global Diversity

- **3 hrs.** may be satisfied within General Studies

#### MAJOR CORE COURSES (Please see a Faculty Advisor)

Students must receive a C or better in all courses.

- **ENV 1200** (3 hrs.) Introduction to Environmental Science

- **ENV 4960** (3 hrs.) Global Environmental Challenges

- **BIO 1080** (3 hrs.) General Biology I

- **BIO 1090** (1 hrs.) General Biology Laboratory I

- **BIO 1081** (3 hrs.) General Biology II

- **BIO 1091** (1 hrs.) General Biology Laboratory II

- **CHE 1810** (4 hrs.) General Chemistry II

- **CHE 1850** (2 hrs.) General Chemistry Laboratory

- **CET 3320** (3 hrs.) Environmental Impact Statements

- **MTH 3240** (3 hrs.) Environmental Statistics

- **GEG 1220** (2 hrs.) Map Use

- **GIS 2250** (3 hrs.) Introduction to GIS

- **MTH 1110** (4 hrs.) College Algebra

**OR**

- **MTH 1112** (4 hrs.) College Algebra through Modeling

**OR**

- **MTH 1400** (4 hrs.) Precalculus Mathematics

**OR**

- **MTH 1410** (4 hrs.) Calculus I

#### WATER QUALITY CONCENTRATION

**Additional Required Courses**

- **CHE 3050** - Environmental Chemistry

- **CHE 3100** - Organic Chemistry I

- **CHE 3110** - Organic Chemistry II

- **GEL 3150** - Hydrogeology

- **GEL 4150** - Hydrology

**Red Rocks Community College Required Courses**

- **WQM 100** (3 hrs.) Introduction to Water Quality Management

- **WQM 119** (4 hrs.) Basic Water Quality Analysis

- **WQM 121** (3 hrs.) Environmental Sampling and Volume Measurement

- **WQM 216** (4 hrs.) Biological and Bacteriological Water Quality Analysis

**Environmental Science - Select 9 hrs of approved courses (see catalog)**

**Social Sciences - Select 3 hrs of approved courses (see catalog)**

**Internship**

- **ENV 4950** (3 hrs.) Internship in Environmental Science

**Senior Experience Graduation Requirement**

- **ENV 4970** - Environmental Field Studies

**OR**

- **CHE 4950** - Senior Experience in Chemistry

**Multicultural Requirement**