

## Water Quality Concentration Requirements

Students are required to select courses in Biology, Chemistry, Geology, Environmental Science, Red Rocks Community courses, and elective courses in consultation with an environmental science advisor.

### Additional Required Courses

COURSES.....			SEMESTER HOURS
CHE	3100	Organic Chemistry I.....	4
CHE	3050	Environmental Chemistry .....	3
CHE	3110	Organic Chemistry Laboratory I.....	2
GEL	3150	Hydrogeology .....	3
GEL	4150	Hydrology.....	3

### Red Rocks Community College Required Courses

WQM	100	Introduction to Water Quality Management .....	3
WQM	119	Basic Water Quality Analysis .....	4
WQM	121	Environmental Sampling and Volume Measurement .....	3
WQM	216	Biological and Bacteriological Water Quality Analysis .....	4
<i>Subtotal</i> .....			29

### Environmental Science – Select at least 9 hours

ENV	3400	Water Resources .....	3
ENV	3700	Mountain Environments .....	3
ENV	3710	Environmental Remediation .....	3
ENV	3720	Waste Management .....	3
ENV	3730	Environmental Risk Assessment .....	3
ENV	3740	Environmental Health.....	3
ENV	4000	Environmental Geology.....	3
ENV	4010	Environmental Hazards and GIS* .....	3
ENV	4200	Environmental Policy and Planning .....	3
ENV	4410	Water Law .....	3
ENV	4420	Wetlands .....	3
ENV	4430	Habitat Planning .....	3
ENV	4440	Landscape Ecology* .....	3
ENV	4500	Environmental Biogeochemistry.....	3
ENV	4910	Global Environmental Field Problems: Variable Topics .....	3
ENV	4920	Topics in Environmental Science: Variable Topics .....	3
MTR	2400	Introduction to Atmospheric Science .....	4
MTR	3100	Air Pollution.....	3
WQM	105	Specific Calculations for Water Quality Management (RRCC) .....	4
WQM	200	Hydraulics for Water Quality Management (RRCC) .....	4

### Social Sciences – Select at least 3 hours

ECO	3450	Environmental Economics*.....	3
PSC	3230	Environmental Politics*.....	3
SOC	3770	Society and the Environment*.....	3
HIS	3880	American Environmental History.....	3
GEG	3610	Principles of Land Use Planning*.....	3
COM	3670	Writing for the Environmental Industry*.....	3
ENV	3620	Population, Resources, and Land Use*.....	3

\*Course has additional prerequisites; check current MSCD College Catalog for requirements.

### Internship Requirement

ENV	4950	Internship in Environmental Science .....	3
-----	------	---	---

**Senior Experience Graduation Requirement**

ENV 4970 Environmental Field Studies..... 3  
-or-  
CHE 4950 Senior Experience in Chemistry\*..... 3  
*\*Course has additional prerequisites; check current MSCD College Catalog for requirements.*

*Total General Studies Course Requirements\*.....36*  
*Environmental Science Required Core Courses..... 36*  
*Water Quality Requirements..... 41*  
*Internship Requirement..... 3*  
*Senior Experience Requirement.....3*  
*Unrestricted Electives\*.....1*  
*Total for Environmental Science Degree: Water Quality Concentration..... 120*  
*\*The multicultural requirement of 3 hours must also be satisfied.*