

Ecological Restoration Concentration

Students are required to select courses in Biology, Geology, Environmental Science, and elective courses in consultation with a environmental science advisor.

COURSES.....		SEMESTER HOURS
Biology - Select at least 22 hours		
BIO	2100	General Botany 5
BIO	2400	General Microbiology 5
BIO	3140	Plant Physiology* 5
BIO	3160	Plant Anatomy and Morphology* 4
BIO	3180	Vascular Plant Taxonomy* 4
BIO	3200	Invertebrate Zoology 4
BIO	3260	Vertebrate Zoology 4
BIO	3360	Animal Physiology* 4
BIO	3550	Urban Ecology 4
BIO	4450	Pathogenic Microbiology* 5
BIO	4510	Microbial Ecology* 4
BIO	4540	Plant Ecology* 4
BIO	4550	Animal Ecology* 4
Geology – Select at least 4 hours		
ENV	3540	Advanced Geologic and Environmental Hazards – Denver and Vicinity 2
ENV	4000	Environmental Geology..... 3
GEL	3050	Mineralogy and Petrology..... 4
GEL	3060	Stratigraphy and Structure..... 4
GEL	3120	Advanced Geomorphology* 4
GEL	3150	Hydrogeology..... 3
GEL	3420	Soil Resources* 4
GEL	3440	Energy and Mineral Resources* 4
GEL	3510	Advanced Geology of Red Rocks Park and Vicinity..... 1
GEL	3520	Advanced Garden of the Gods – Front Range Geology..... 2
GEL	3530	Advanced Geology of the Colorado Plateau..... 2
GEL	3550	Advanced Geology of the Great Sand Dunes National Monument..... 2
GEL	4150	Hydrology* 3
Environmental Science – Select at least 9 hours		
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	4010	Environmental Hazards and GIS* 3
ENV	4200	Environmental Policy and Planning 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	3100	Air Pollution..... 3

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

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
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Senior Experience Graduation Requirement

ENV	4970	Environmental Field Studies	3
	-or-		
BIO	4540	Plant Ecology*	4

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

<i>Total General Studies Course Requirements*</i>	36
<i>Environmental Science Required Core Courses</i>	36
<i>Ecological Restoration Requirements</i>	38
<i>Internship Requirement</i>	3
<i>Senior Experience Requirement</i>	3-4
<i>Unrestricted Electives*</i>	3-4
<i>Total for Environmental Science Degree: Ecological Restoration Concentration</i>	120

**The multicultural requirement of 3 hours must also be satisfied.*