

ENVIRONMENTAL SCIENCE

Faculty

B. Mixer

The environmental science degree is intended to provide students with the knowledge needed to find entry level work in a variety of environmental disciplines. The degree may also be used to fulfill the first two years of a four year degree. Students should consult the catalogs and curriculum of the institution where they are considering transferring for their requirements.

Associate of Science Degree Environmental Science

(Recommended Curriculum)

General Education (Minimum 32 credits) Credits

General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
Included in the major requirements below
2. Communication
 - CO/M 1010 Public Speaking 3
 - ENGL 1010 English I: Composition 3
 - ENGL 1020 English II: Composition 3
3. Relationship with the World
 - Human behavior 3
 - U.S. and Wyoming constitutions..... 3
 - Cultural environment 3
4. General Education Electives
Must be chosen from areas 1, 2, or 3 above;
no more than 15 credits in any one area.
5. Physical Education1

Major Requirements (minimum 24 credits)

BIOL	1010	General Biology I.....	4
BIOL	2022	Animal Biology..... or	
BIOL	2023	Plant and Fungal Biology	or
MOLB	2210	General Microbiology	4
CHEM	1025	Chemistry I.....	3
CHEM	1028	Chemistry Laboratory I.....	1
CHEM	1035	Chemistry II.....	3
CHEM	1038	Chemistry Laboratory II.....	1
GEOG	1010	Introduction to Physical Geography	or
GEOL	1110	Physical Geology.....	4
GEOG	1050	Introduction to Environment and Natural Resources.....	3
GEOG	1080	Introduction to GPS and Maps.....	3
GEOG	1100	Introduction to GIS.....	4
MATH	1400	Pre-Calculus Algebra.....	4
STAT	2050	Fundamentals of Statistics	5
		Electives.....	7

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF ARTS DEGREE.

Water Quality Technology

The Water Quality Technology Program is offered as an outreach program. The courses listed are typically presented as workshops. The Associate of Applied Science in Water Quality Technology is intended for operators already employed in the field. A maximum of seven semester credits may be granted by Casper College for certificates awarded by the State of Wyoming Department of Environmental Quality Certification Office according to the following schedule:

Level	1	2	3	4
Credits	2	3	3	4

Credit will be awarded for one certificate in either water or wastewater treatment and one certificate in either collection or distribution systems.

Associate of Applied Science Degree Water Quality Technology

(Recommended Curriculum)

General Education (Minimum 17 credits) Credits

General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
 - CHEM 1025 Chemistry I 3
 - CHEM 1028 Chemistry Lab I 1
 - BIOL 1010 General Biology Ior
 - MOLB 2210 General Microbiology
2. Communication
 - MATH 0930 Intermediate Algebraor
 - MATH 1510 Technical Mathematics I..... 4
 - ENGL 1010 English I: Composition 3
 - ENGL 1020 English II: Compositionor
 - ENGL 2010 Technical Report Writing 3
3. Relationship with the World (One course minimum)
 - Human behavior
 - U.S. and Wyoming constitutions.....1-3
 - Cultural environment
4. General Education Electives
Must be chosen from areas 1, 2, or 3 above.
5. Physical Education1

Major Requirements

CO/M	1010	Public Speaking	3
COSC	1200	Computer Information Systems	3
ENVT	1500	Applied Math for Operators.....	2
ENVT	1510	Distribution Systems.....	3
ENVT	1520	Collection System Operation/ Maintenance.....	3
ENVT	1530	Trenching and Shoring.....	1
ENVT	1540	Confined Spaces.....	1
ENVT	1550	Safety in Water Quality System Operations.....	2
ENVT	1560	Water Treatment Plant Operation I.....	3
ENVT	1570	Wastewater Treatment Plant Operation I.....	3

ENVT	2510	Applied Math for Water Plant Operators	2
ENVT	2515	Applied Math for Wastewater Plant Operators	2
ENVT	2525	Water Treatment Plant Operation II.....	3
ENVT	2535	Wastewater Treatment Plant Operation II	3
ENVT	2980	Cooperative Work Experience.....	1-16
ENVT	2990	Special Topics	1-12
MGT	1000	Introduction to Supervision	2
MGT	2100	Principles of Management	3

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

Water Quality Technology Certificate

(Certificate Requirements)

General Education		Credits	
CO/M	1010	Public Speaking.....	3
COSC	1200	Computer Information Systems.....	3
ENVT	1500	Applied Math for Operators	2
ENVT	1510	Distribution Systems.....	3
ENVT	1520	Collection System Operation/ Maintenance.....	3
ENVT	1530	Trenching and Shoring	1
ENVT	1540	Confined Space.....	1
ENVT	1550	Safety in Water Quality System Operations.....	2
ENVT	1560	Water Treatment Plant Operation I.....	3
ENVT	1570	Wastewater Treatment Plant Operation I	3
ENVT	2510	Applied Math for Water Treatment Operators.....	2
ENVT	2515	Applied Math for Wastewater Treatment Operators	2
ENVT	2525	Water Treatment Plant Operation II.....	3
ENVT	2535	Wastewater Treatment Plant Operation II	3
MGT	1000	Introduction to Supervision.....	2
MGT	2100	Principles of Management.....	3

For specific graduation requirements see "Academic Policies" and "Degree Requirements."