

M.S., WATER AND ENVIRONMENTAL SCIENCE

Admission Requirements

Admission to this program is currently suspended.

Complete the following admission requirements:

- Complete a B.S. in natural science with a GPA of 3.0 or higher, or a B.S. in engineering from an ABET-accredited institution with a GPA of 3.0 or higher.
- Complete the TOEFL exam (only required of non-native English speakers. The minimum score required is 79 for the internet, or 213 for the computerized test).
- Submit GRE scores.

Program Requirements

Admission to this program is currently suspended.

Minimum Requirements for Water and Environmental M.S.: 30 credits

Code	Title	Credits
General University Requirements		
Complete the general university requirements. (https://catalog.uaf.edu/archives/2020-2021/graduate/mastersdegrees/#generaluniversityrequirements)		
Master's Degree Requirements		
Complete the master's degree requirements. (https://catalog.uaf.edu/archives/2020-2021/graduate/mastersdegrees/#masterofsciencewithproject)		
Water and Environmental Program Requirements		
Complete one of the following concentrations:		21-27
Environmental Contaminants		
Environmental Science and Management		
Hydrology		
Water Supply and Waste Treatment		

Concentrations

Environmental Contaminants

Code	Title	Credits
Complete the following:		
CE F601	Engineering Research Communication	3
CE F663	Groundwater Dynamics	3
ENVE F641	Aquatic Chemistry	3
ENVE F642	Contaminant Hydrology	3
ENVE F647	Biotechnology	3
ENVE F649	Hazardous and Toxic Waste Management	3
Approved electives (3 credits for thesis; 9 credits for project) ¹		3-9

¹ In addition to ENVE courses, recommended courses include: BIOL F657, BIOL F680, CE F603, CE F661, CE F683, CE F684, CHEM F609, CHEM F631, CHEM F655, GE F620 and MATH F615.

Environmental Science and Management

Code	Title	Credits
Complete the following:		
CE F601	Engineering Research Communication	3
Complete five from the following:		15
ENVE F641	Aquatic Chemistry	
ENVE F644	Environmental Management and Permitting	
ENVE F647	Biotechnology	
ENVE F649	Hazardous and Toxic Waste Management	
ENVE F651	Environmental Risk Assessment	
ENVE F652	Introduction to Toxicology for Engineers and Scientists	
Approved electives (3 credits for thesis; 9 credits for project) ¹		3-9

¹ In addition to ENVE courses, recommended courses include: BIOL F657, BIOL F680, CE F603, CE F661, CE F683, CE F684, CHEM F609, CHEM F631, CHEM F655, GE F620 and MATH F615.

Hydrology

Code	Title	Credits
Complete the following:		
CE F601	Engineering Research Communication	3
CE F662	Open Channel and River Engineering	3
CE F663	Groundwater Dynamics	3
CE F665	Introduction to Watershed Hydrology	3
CE F683	Arctic Hydrology and Hydraulic Engineering	3
Approved electives (6 credits for thesis; 12 credits for project) ¹		6-12

¹ Recommended electives include: CE F445, CE F603, CE F661, CE F664, ENVE F641, ENVE F642, ENVE F644, BIOL F473, BIOL F483, NRM F435, NRM F670, GEOS F616, GEOS F617, GEOS F631 and GEOS F694.

Water supply and waste treatment

Code	Title	Credits
Complete the following:		
CE F601	Engineering Research Communication	3
ENVE F641	Aquatic Chemistry	3
ENVE F643	Air Pollution Management	3
or ENVE F649	Hazardous and Toxic Waste Management	
ENVE F645	Unit Processes: Chemical and Physical	3
ENVE F646	Biological Unit Processes	3
ENVE F647	Biotechnology	3
Approved electives (3 credits for thesis; 9 credits for project) ¹		3-9

2 M.S., Water and Environmental Science

¹ In addition to ENVE courses, recommended courses include: BIOL F657, BIOL F680, CE F603, CE F661, CE F683, CE F684, CHEM F609, CHEM F631, CHEM F655, GE F620 and MATH F615.