ENVIRONMENTAL FRESHWATER SCIENCES (ENVFS) MAJOR

A partnership between Alverno College and the University of Wisconsin-Milwaukee (UWM)

Water is one of our most vital resources, and it's often under threat: municipalities battle over water rights, aquifers get depleted, and pollution taints drinking water and endangers ecosystems. Whether you want to lead cutting-edge water research or develop water policy to ensure safe water resources for all, this dual-degree program can prepare you for a rewarding career in the freshwater sciences field.

This dual-degree program saves you time and money by combining just three years of Environmental Science or Integrated Natural Sciences undergraduate studies at Alverno with UWM's two-year Master of Science in Freshwater Sciences and Technology. Milwaukee is a global hub for freshwater research and innovation, and there's no better place to study freshwater than on the shores of Lake Michigan, one of the largest freshwater lakes in the world.

The Alverno edge

Alverno is internationally known for its unique abilities-based curriculum. Instead of competing against classmates, you'll strive to achieve your best by practicing critical thinking, problem solving, leadership and communication — skills that will help in graduate school and prepare you to tackle the environmental and water challenges facing the planet today Plus, Alverno's 10-to-1 student-to-faculty ratio and small class sizes will allow you to perform your best. This program offers seminars, personalized advising, peer support and other resources to help prepare you for your graduate studies and beyond.

Alverno Difference

For 130 years, Alverno College has been dedicated to the education of women, preparing them for lives of personal and professional distinction and meaningful engagement with the world. Alverno extends this mission to men as well, through graduate and adult classes. We are a Catholic, liberal arts college with a curriculum so unique, educators from around the world come to Alverno to learn how we teach. Alverno's abilities-based approach to learning ensures our graduates will learn more in class and retain knowledge longer. Students do not receive traditional grades, rather, they are assessed by faculty, community assessors, peers and themselves. Our small class sizes ensure students receive uncommon access to faculty. With an average student to teacher ratio of 10:1, you are guaranteed an individualized learning experience.

Requirements

Code	Title	Credits
Beginning Requirements		
MGT-210	Economic Environment	3
MT-123	College Algebra	3
or MT-148	Functions & Modeling	
Intermediate Requirements		
CH-213 & 213L	Chemistry of Bioorganic Molecules and Chemistry of Bioorganic Molecules Lab	4
or CH-260 & 260L	Chemistry of Inorganic Materials and Chemistry/Inorganic Materials - Lab	
GE-220	Earth Science	4
PH-231	Algebra-Based Physics I	4
or PH-241	Calculus-Based Physics 1	
MT-152	Calculus 1	4
SC Elective	Science Electives from Biology (BI) or Chemistry (CH), 300 or 400 level	10
Advanced Requirements		
ENV-341	Geographical Information Systems	3
INTERN-383	Internship Seminar	2
ENV-399	Formal Introduction to Advanced Work	0
ENV-374	ENV Assessment in Effective Citizenship	0
GLS-330	United Nations & the World	4
or GLS-410	Comparative Politics	
ENV Elective	Environmental Science (ENV) Electives	3
GE-410	Environmental Geology	4
ENV-491	Integrated Environmental Seminar	3
ENV-414	ENV Professional Portfolio	0

Academic Map

This Academic Map should be used ***for planning purposes only***. All official graduation requirements are listed on the Academic Evaluation for an individual student. Course sequences are subject to change. **All students must complete a minimum of 120 credits to earn a Bachelors Degree.**

Course	Title	Credits
First Year		
Fall		
AC-151	Initial Social Interaction Assessment	0
ILA-100	Introduction to the Liberal Arts @ Alverno	0
FSS 100 Level	Any FSS-125 First Semester Seminar (FSS) topic from https://catalog.alverno.edu/courses/fss (https://catalog.alverno.edu/courses/fss/)	2
SC-119 & 119L	Foundations of Chemistry and Foundations of Chemistry Lab	4

FA 100 Level	Any FA-100 Intro to the Arts (FA) from https://catalog.alverno.edu/courses/fa (https://catalog.alverno.edu/courses/fa/)	4
MT-123	College Algebra	3
CM-120	Communication Seminar 1	4
	Credits	17

Spring

CH-213 & 213L	Chemistry of Bioorganic Molecules and Chemistry of Bioorganic Molecules Lab	4
SC-120 & 120L	Foundations of Biology and Foundations of Biology Lab	4
CM-125	Communication Seminar 2	3
HUM 100 Level	Any HUM-150 Intro to the Humanities (HUM) topic from https://catalog.alver courses/hum (https://catalog.alver courses/hum/)	4
	Credits	15

Second Year

Fall

CM-225	Communicat Seminar 3	3
QL-156	Mathematical Connections	3
PPS-229	Career & Internship Planning	1
SC Elective	Science Elective from Biology (BI) or Chemistry (CH), 300 and 400 level	4
MT-152	Calculus 1	4
	Credits	15

Spring

SSC-101	Introduction to Social Science	4
GE-220	Earth Science	4
SC Elective	Science Elective from Biology (BI) or Chemistry (CH), 300 and 400 level	4
ENV Elective	Environmental Science (ENV) Elective	3-4
	Credits	15-16

Third Year

Fall

HFA 210 Elective	Any HFA-210 Humanities and Fine Arts (HFA) elective	2
PH-231 or PH-241	Algebra-Based Physics I or Calculus Based Physics 1	4
MGT-210	Economic Environment	3
SC Elective	Science Elective from Biology (BI) or Chemistry (CH), 300 and 400 level	4
GLS-330	United Nations & the World	4
	Credits	17

Spring

BSC-215	Working in Diverse Groups	2
HFA 310 Elective	Any HFA-310 Humanities and Fine Arts (HFA) elective	2

GEC 300 Level	Any GEC-300 Globally Effective Citizenship (GEC) topic from https://catalog.alverno.edu/courses/gec (https://catalog.alverno.edu/courses/gec/)	3
GE-410	Environment Geology	4
ENV-341	Geographical Information Systems	3
ENV-374	ENV Assessment in Effective Citizenship	0
ENV-414	ENV Professional Portfolio	0
	Credits	14
Fourth Year		
Fall		
UWM Course	Courses at UW-Milwaukee	14
	Credits	14
Spring		
UWM Course	Courses at UW-Milwaukee	14
	Credits	14
	Total Credits	121-122