WATER QUALITY & ENVIRONMENTAL TECHNOLOGY

PART OF THE Great Lakes Water Studies Institute





ASSOCIATE IN APPLIED SCIENCE, WATER QUALITY AND ENVIRONMENTAL TECHNOLOGY

Dig into a rewarding career focused on groundwater!

On Lake Michigan in the heart of Traverse City, MI



YOUR PATHWAY

to a successful career.



Join NMC's Water Quality & Environmental Technology program and become a leader in cleaning up our most precious resource: water.

Gain the skills to restore and remediate contaminated groundwater and environmental sites across Michigan, the Great Lakes region, and beyond!



Associate in Applied Science, Water Quailty and Environmental Technology



Within this degree students will have the opportunity to earn the following:

- OSHA HAZWOPER 40-hour Certificate
- FAA Part 107 Remote Pilot Certificate (Drones/UAS)
- Entry-level Python Programmer Certificate (CPEP)
- Solidworks Associate Certificate (CSWA)



Internships are required.

"This is NMC's first year of the program and I think it's a really important and it's a really very interesting course of study that NMC is offering. There is a critical need for work in this field and NMC is definitely doing a good thing by starting a program like this."

> - Tadd Kaiser, NMC student, Water Quality & Environmental Technology

"The global market for environmental remediation technologies is expected to increase from

with a compound annual growth rate (CAGR) of during the forecast period of 2023-2028."

-According to BCC Research



Fulfilling Careers, Rewarding Future

This program prepares you for high-demand careers in environmental remediation, site assessment and water quality analysis.





Site Assessment & Remediation

Groundwater Monitoring & Aquifer Sampling

UAS/Drone Surveying

Industry-Driven Curriculum

Our curriculum is designed specifically to meet the needs of today's environmental workforce.

Practical Experience Advantage

An internship is integrated into the program, providing valuable real-world experience and professional connections.

"As environmental professionals we rely on the quality of data collection for key decision making, We are excited to see a program that trains folks at the college level in field data collection techniques. I trust that a number of industries will benefit from students having these abilities after just two years."

Richard Raetz, P.E.
 President, Global Remediation Technologies



IN NMC SCHOLARSHIPS AWARDED TO NMC STUDENTS IN 2023-24

We're here to support you:

- > Learn from nationally-ranked experts
- > Enjoy beautiful Traverse City, MI
- > Stop by the Academic & Career Advising Center
- > Meet with a coach at the Student Success Center
- > Live in on-campus housing
- > Experience hands-on learning opportunities





that comes with this associate degree. There are jobs available for me once I graduate.

- Jacob Holcomb, NMC student, Water Quality & Environmental Technology

WATER QUALITY & ENVIRONMENTAL TECHNOLOGY

ASSOCIATE IN APPLIED SCIENCE, WATER QUALITY AND ENVIRONMENTAL TECHNOLOGY

|--|

	YEAR I			
	COURSE	TITLE	CREDITS	
FALL	ENG 111 GEO 115 MTH 121 or MTH 131 WSI 106	English Composition Introduction to GIS College Algebra or Intro to Prob & Stats Introduction to Water Quality CREDITS	4 3 3-4 3 13-14	
SPRING	CHM 101 or CHM 150 CHM 101L or CHM 150L ENG 220 ENV 111 ENV 111L WSI 110 WSI 150	Introductory Chemistry or General Chemistry I Introductory Chemistry Lab or General Chemistry I Lab Technical Writing Physical Geology Physical Geology Lab OSHA HAZWOPER 40 hour Introduction to Site Assessment and Remediation CREDITS	4 0 3 4 0 3 3	
SUMMER	WSI 290	Internship CREDITS	1-3 1-3	

YEAR 2

	COURSE	TITLE	CREDITS
FALL	BIO 110 or BIO 115 BIO 110L or BIO 115L DD 170 EET 103 WSI 250	Essential Biology or General Biology I Essential Biology Lab or General Biology I Lab CADD/Computer Modeling Electrical Studies I Groundwater Monitoring and Aquifer Sampling CREDITS	4 0 4 3 4 15
SPRING	Approved Elective Approved Elective Group I Humanities UAS 121 UAS Applications in Surveying CREDITS		3-4 3-4 3-4 3 12-15
		TOTAL CREDITS	60-64

GENERAL EDUCATION

- English Composition
- Technical Writing
- Algebra or Statistics
- Biology
- Chemistry
- Physical Geology
- Humanities

CORE COURSES

- OSHA HAZWOPER (40 hour course)
- Intro to Site Assessment & Remediation
- Groundwater Monitoring and Aguifer Sampling
- Internship

TECHNICAL COMPETENCIES

- Intro to GIS
- CADD/Computer Modeling
- Intro to Field Surveying
- Electrical Studies
- Intro to Water Quality
- UAS/Drone Surveying



Start your journey today!

Northwestern Michigan College 1701 E. Front Street, Traverse City, MI Admissions: (231) 995-1054 admissions@nmc.edu

Great Lakes Water Studies Institute (231) 995-3333 | glwsi@nmc.edu nmc.edu/wet-tech