



Charlie Gotta, CE '21, MSCE '22

GRADUATE STRUCTURAL DESIGNER II

Charlie completes structural design of gravity and lateral systems, extensive detailing, and construction administration for high end custom residences and home remodels. Though his role, he has been able to visit sites of some of the most desired new properties and remodels in the Vail Valley.

FUN FACT: He works part-time with the Ski and Snowboard Club as an alpine coach. He enjoys sharing his passion for ski racing and mentoring some of the best young athletes in the country.

Congratulations on making a crazy smart decision that will positively impact the rest of your life.

You have chosen to pursue a degree in civil/environmental/ geospatial engineering or construction management in the Department of Civil, Environmental, and Geospatial Engineering, at a top engineering school–Michigan Technological University.

No matter what you do after graduation, your degree will get you there.

Graduates from our Bachelor of Science programs work for Fortune 500 Companies, Engineering News Record Top 500 Engineering Companies, as well as go on to graduate school or pursue other advanced degrees.

The faculty and staff of the Civil, Environmental, and Geospatial Engineering Department value our students and want to see you succeed. So please, visit the faculty during their office hours, ask them questions, and let them know you value your education as much as they do.

Our undergraduate advising team, Julie Ross and Matt Laird, are the best advisors on the Michigan Tech campus. Civil and environmental engineering and construction management students work with Julie, geospatial engineering students work with Matt, to optimize your academic plan and to achieve your degree.

Last but not least, please know that my door is open for you to share your achievements and the challenges you overcome in the pursuit of your academic degree.

Again, congratulations on starting a new chapter in your academic career. We are glad you chose the Civil, Environmental, and Geospatial Engineering Department at Michigan Tech as your new home.

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R. Andrew Swartz, Ph.D., P.E.
Professor and Interim Department Chair

TABLE OF CONTENTS

Advising Syllabus
Tips for Success $\dots 5$
Making the Grade $\dots 6$
Civil Engineering8
Environmental Engineering $\dots 16$
Geospatial Engineering 22
Construction Management 26
Minors & Graduate School 30
Faculty List
Essential Education
ABET Accreditation
Academic Advising 46

Advising Syllabus

MISSION: Advisors and students working together to develop an individualized academic plan for accomplishing student goals.

ADVISING DEFINED: Academic Advising is a relationship and a process that results in benefits for student, advisor, and university as a whole. The advisor and student collaborate to develop, follow, and complete an academic plan. A productive advising relationship will help students envision, foster, and realize their goals here at Michigan Tech and for a lifetime.

STUDENT LEARNING OUTCOMES

- Knowledge of university student learning goals and degree requirements
- A thorough understanding of your academic plan
- Ability to find and use advising resources
- Increased and improved self-awareness and decision-making skills

STUDENT RESPONSIBILITIES (What you should do)

- Take responsibility for academic planning
- Understand learning goals and degree requirements
- Follow academic procedures and policies
- Communicate with your advisor: read all advising correspondence
- Attend advising meetings prepared
- Apply advising recommendations in order to achieve your academic plan
- Seek assistance from instructors, learning centers, and other university services
- Contact your advisor promptly when you have questions or concerns. When faced with a difficult question or challenging situation, your academic advisor is a good place to begin
- Problem-solve to revise and achieve your academic plan

ACTIVITIES (How advisors and students realize outcomes and goals)

- Identify a degree program that aligns with your academic interests and abilities
- Create an educational plan that fulfills the academic plan
- Select appropriate classes to satisfy your evolving goals
- Learn the benefits of internships, co-ops, and study abroad
- Explore academic options: Enterprise program, undergraduate research, Pavlis Honors College, dual majors, secondary degrees, minors, and graduate study
- Locate and use resources and services
- Interpret university requirements, policies, regulations, and procedures
- Develop decision-making skills, self-awareness, and self-direction
- Clarify and evaluate progress toward academic and life goals

ADVISORS ADVOCATE FOR STUDENTS, PROTECT AND ENSURE THEIR PRIVACY AND THEIR RIGHTS AS ADVISEES IN COMPLIANCE WITH UNIVERSITY POLICIES:

- mtu.edu/deanofstudents/disability
- mtu.edu/registrar/faculty-staff/ferpa
- mtu.edu/registrar/students/advising

Student Academic Advising Checklist

ORIENTATION WEEK Preparing for your first semester	□ Login to review your transcript • Are AP credit and transfer credits correct? - mtu.edu/experience □ Meet academic advisor □ Complete class registration and print class schedule □ Explore Campus Resources and visit these websites • Your department and advisor • Undergraduate Catalog - mtu.edu/catalog • Dean of Students - mtu.edu/deanofstudents • Registrar - mtu.edu/registrar • Advising - mtu.edu/registrar/students/advising • Library - mtu.edu/library - take a library tour • Wellness and Counseling - mtu.edu/well-being
YEAR 1 Transitioning and adjusting to college life	 □ Attend first year advising meeting with your major advisor Unsure about your major? Meet with: General sciences/arts undeclared advisor: mtu.edu/sciences-arts/undergraduate/gsa OR General/undecided engineering advisor: mtu.edu/ef/degree/advising □ Review major requirements Run interactive audit each semester after registration - mtu.edu/experience □ Review Academic Policies and Academic Integrity - mtu.edu/deanofstudents □ Review University Student Learning Goals and your major's goals - mtu.edu/learning-goals □ Visit Career Services - mtu.edu/career □ Create a resume and attend career fairs - mtu.joinhandshake.com/login □ Begin to explore Pavlis Honors College, internship, co-op, research, study abroad, minors □ Learn about campus activities and student organizations - involvement.mtu.edu/organizations
YEAR 2 Academic and career exploration, and personal development	 □ Meet with advisor, bring your academic plan Run interactive audit each semester after registration - mtu.edu/experience □ Explore interests, strengths, and careers Within your department and network with faculty in your major Career Services - mtu.edu/career □ Update your resume and attend career fairs □ Explore/participate Pavlis Honors College, internship, co-op, research, study abroad, minors □ Consider joining an Enterprise - mtu.edu/enterprise
YEAR 3 Academic enhancement and career goal setting	 □ Run interactive audit each semester after registration - mtu.edu/experience □ Meet with advisor to prepare for graduation □ Network with faculty in your major □ Attend Career Services and Graduate School workshops for career planning • Consider Accelerated Masters - mtu.edu/accelerated • Consider Senior Rule Classes - mtu.edu/registrar/students/registration/policies/senior-rule □ Develop career goals □ Explore/participate Pavlis Honors College, internship, co-op, research, study abroad, minors □ Update resume and attend career fairs
FINAL YEAR Transitioning out of college into career or graduate school	 □ Apply for graduation by 10th week of the semester prior to graduation Must have earned 90 credits or more mtu.edu/registrar/students/graduation/degree □ Meet with advisor for final degree audit one semester before graduation Run interactive audit each semester after registration - mtu.edu/experience □ Network with faculty in your major □ Finalize career/graduate school plans Complete the First Destination survey - mtu.joinhandshake.com/login Complete Loan Exit Counseling for Financial Aid, if needed - (906) 487-2662 □ Graduation Check for your name on the Graduation Candidate List - mtu.edu/commencement Order cap and gown, honor cords - optional - mtu.edu/commencement Participate in commencement ceremony - optional

Brock Petrak, EEN '22

ENGINEER AND PROJECT MANAGER EDGEWATER GROUP

Life on the waterfront is what Brock enjoys most about his role at Edgewater Group, a waterfront-specialty engineering firm. Focused on property development from concept planning through construction administration and completion, he enjoys meeting with clients to present engineering reports and drawings and coordinating with teams of engineers, architects, and designers. With project destinations from Mexico to the Bahamas and the eastern seaboard, Brock enjoys conducting bathymetric and photogrammetric surveys to assist in the property development process. Almost every project the firm takes on is on waterfront, meaning he gets to spend his time on a boat or at a beach for most of the projects.

Brock has been able to take on other roles in the process from grant writing to financial procurement, economic projections to marketing.

FUN FACT: His team developed new dry stack marinas that allow for upland boat storage without the needs for diesel-fueled forklifts. They have integrated cranes, automation, and solar power elements at a high-rise dry stack building that stores boats like a vending machine in the middle of downtown Fort Lauderdale!



Tips for Academic Success



GO TO CLASS... AND BE PRESENT

The decisions you make today directly impact your future...so go to class, turn off your phone, and get ready to learn!



READ AND COMPLY WITH THE SYLLABUS

Each class comes with a "roadmap to success" (aka syllabus). Read it, follow it, and save it for future reference.



JOIN A CLUB AND GET INVOLVED

Joining a group is a great way to make friends—and if it is engineering related—you'll get a jump-start on building your resume and network.



NEED HELP? JUST ASK!

Visit your professors during office hours and check out the learning centers and CEGE Bernson Student Success Center.
Online resources such as Coursera and Kahn Academy are great too!
Check out these academic support resources: mtu.edu/success/academic/support



BALANCE SCHOOL AND LIFE ACTIVITIES

Your new friends invited you to go exploring, but you have a pile work to do...Learn to make the most of your time between classes and get homework done or study for exams. This will help free up time at the end of each day, so you can relax or hang with friends.



REMEMBER, YOU MAY NOT GET ALL A'S

You didn't choose Michigan Tech because you thought it would be a walk in the park. If you have a rough semester, don't let it get you down! Our courses are designed to be challenging, so you are prepared to hit the ground running the moment the diploma hits your hand.

Stressed or anxious? Not sure how to cope?

If you feel the stress is too much, or you are concerned about a friend or classmate, don't hesitate to reach out to Counseling Services or explore My Student Support Program (My SSP):

906-487-2538 • counseling@mtu.edu • mtu.edu/well-being

What can you do *now* to be successful in the *future?* Make the grade.

Freshmen Chemistry: CH 1150 & CH 1160

Math: MA 1160, MA 2160, MA 3160, MA 321& MA 3521

Physics:

PH 2100 & PH 2200

Engineering:

ENG 1101 & ENG 1102

Earn a C, B, or even better, an A...



and hello—
less stress and better
career opportunities.
Boom.



If you receive an F in any required course, you have to retake it before moving on to the next class in the sequence. We strongly encourage you to retake any required courses if you receive a CD or D. Civils are required to receive a C or better in MA2160 (Calc II) before moving on.

WHAT ARE THE RULES FOR REPEATING CLASSES?

- 1. You must retake any required class in which you receive an F; however, you can choose to repeat any course.
- 2. The most recent grade always replaces the previous grade. Retaking a class and receiving a better grade will improve both your semester and overall GPAs. However, you can retake a class and get a lower grade. For example if you have a D (a passing grade) and retake a course and receive an F (a failing grade), you now have a failing grade in the course and will have to retake the class a third time.
- 3. You may only take a class three times. You must receive permission from the Dean of Student's Office and your academic advisor to register for a class the third time.

 If the class that you are retaking is a required class for your program, and you do not pass the class during the third attempt then you may no longer continue in the program.

Review the Registrar's Office policy on retaking classes:

mtu.edu/registrar/students/registration/policies/repeat-course



Calling all creative, curious, analytical, and detail-oriented individuals: tackle growing infrastructure challenges as a civil engineer.

At Michigan Tech you will have unparalleled undergraduate opportunities:

- State-of-the-art facilities: Study asphalt and ultra-high-performance concrete and experiment in the pilot-scale environmental simulation lab
- Hands-on learning: From Senior Capstone and internships to having one of the highest co-op rates on campus, our students are in high demand
- **Go global:** Check out Engineers Without Borders and International Senior Design programs, or participate in the Study Abroad Program
- **Be rail-ly innovative:** The innovative Rail Transportation Program is one of the first in the nation. Its mission? To advance rail education and research across disciplines

Course Descriptions

Civil Engineering course descriptions can be found here: MTU.EDU/CATALOG/COURSES

Academic Advising



Julie Ross
ACADEMIC ADVISOR

(906) 487-3410 <u>jzross@mtu.edu</u> Dillman 103

mtu.edu/cege/people/faculty-staff

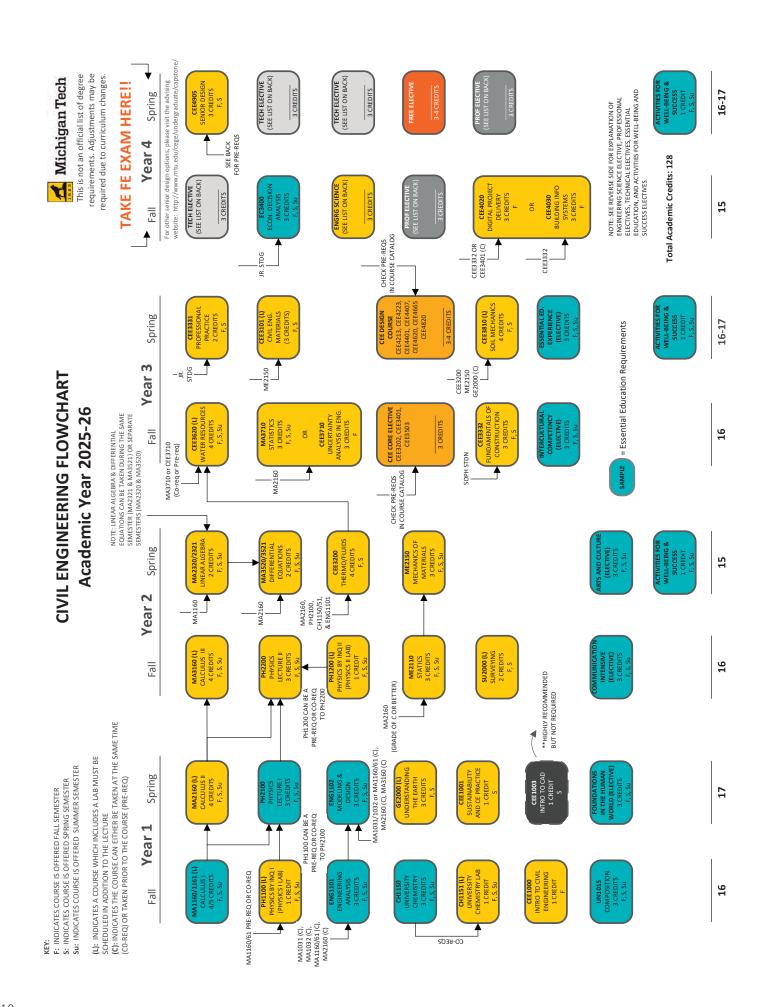


Erik Puslala, CE '22, MBA '23

STAFF GEOTECHNICAL ENGINEER, CROUCH ENGINEERING

In his role as a staff geotechnical engineer, Erik has been involved in field investigations, design, drafting, and coordinating drilling plans, as well as writing geotechnical reports. He is responsible for designing retaining walls for a railroad consulting agency. Currently based in Nashville, TN, he will review the site ahead of the project, design the retaining wall system, and then oversee the construction.

FUN FACT: Since graduation, his job has taken him to various locations across the United States, typically for one month at a time.



TECHNICAL ELECTIVES (9 CREDITS)

- Any 2000 or higher level course in Construction Management (CMG)
- Any 2000 or higher level course in Geospatial Engineering (SU)
- Any 3000 or higher level course In Civil and Environmental Engineering (CEE)
- **GE3850 (Geohydrology)**
- **GE4800 (Groundwater Engineering)**

PROFESSIONAL ELECTIVES (6 CREDITS)

- Any 1000 or higher level course in Computer Science, Fine Arts or Forestry. (CS, ART, FW, MUS, SND, THEA)
- Any 2000 or higher level course in Biological Sciences, Chemistry, Construction Management, Geology, Physics or Geospatial Engineering. (BL, CH, CMG, GE, PH, SU)
- Any 2000 or higher level course in Business or Economics (ACC, BUS, EC, FIN, MGT, MIS, MKT, OSM).
- Any 3000 or higher level course in Mathematics, Humanities, Psychology, Social Sciences or University Wide (MA, HU, PSY, SS, UN).
- Any 3000 or higher level course in Civil and Environmental Engineering (CEE) or any other Engineering Dept.

NOTE: OTHER COURSES MAY BE USED TO SATISFY THE PROFESSIONAL ELECTIVES REQUIREMENT IF APPROVED BY THE DEPARTMENT OF CIVIL, ENVIRONMENTAL, AND GEOSPATIAL ENGINEERING ACADEMIC ADVISOR.

ENGINEERING SCIENCE ELECTIVE

BIOMEDICAL SIGNALS & SYSTEMS	MATERIAL AND ENERGY BALANCES	INTRO TO MINERALS & MATERIALS	CIRCUITS AND INSTRUMENTATION	INTRO TO MATERIALS SCI & ENGRG	INTRODUCTORY THERMODYNAMICS	DYNAMICS	
RF2700	CM2110	CM2200	EE3010	MSE2100	ME2201	ME2700	

SENIOR DESIGN PREREQS

(complete 7 of the following)

CEE3101, CEE3331, CEE3332, CEE3202, CEE3401, CEE3503, CEE3620, CEE3810, **CEE DESIGN COURSE**

ESSENTIAL EDUCATION REQUIREMENTS

ESSENTIAL ED FOR CIVIL ENGINEERING

	Seminar
	Composition-focused Course

Science

PH2100

MA1160/61

ENG1101 **UN1015**

> Foundations in the Human World STEM

ENG1102

2.a. Distribution Pathway: (18 credits)

Intercultural Competency Communication Intensive SHAPE Course CH1150

EC3400

Essential Ed Experience (E3) STEM

Arts and Culture List

OR

2.b. Minor Pathway: (18 credits)

Minor Course Minor Course

Minor Course Minor Course Minor Course Minor Course 3. Activities for Well-Being: (3 credits)

https://www.mtu.edu/registrar/essentialeducation/overview/ **ESSENTIAL ED:**

UNDERGRADUATE CATALOG (COURSE **DESCRIPTIONS):**

www.mtu.edu/catalog/courses/

CIVIL ENGINEERING FOCUS AREAS

Course Suggestions

ш	A	0 0	0	0 0	Ö
CEE Design Elective	Any CEE Design Course	CEE 4401 or CEE 4407	CEE 4213	CEE 4620 or CEE 4665	CEE 4820
CEE 4020 or CEE 4030	CEE 4020 or CEE 4030	CEE 4020 or CEE 4030	CEE 4030	CEE 4020	CEE 4020
Tech Elective	CEE 3503	Choose a Transp. Tech Elect	CEE 4201	Choose a Water Res.	CEE 4850
Tech Elective	CEE 3401	Choose a Transp. Tech Elect	CEE 4223	Choose a Water Res.	CEE 5840
Tech Elective	Choose a Tech Elective	Choose a Transp. Tech Elect	Choose a Structural Elective	Choose a Water Res.	CEE 5850
Prof Elective	Open	Open	Open	Open	CEE 4213
Prof Elective	Open	Open	Open	Open	Open

CIVIL ENGINEERING FOCUS AREAS

Course Suggestions With Minors Included

Free	Open	Minor Elective	Open	CEE 3490	Open	Group B Elective
Prof Elective	CMG 4300 or CMG4400	Minor	Open	Minor Leadership Elective	Minor Elective	FW 4220
Prof Elective	CMG 4210	Minor Elective	CEE 3401	OSM 4700	Minor Elective	BL1400
Tech Elective	CMG 4200	Open	CEE 4502, CEE 4502, CEE 4507, or CEE 4511	Open	SU 4060	Open
Tech	CEE 4344	Minor Engineering Elective	CEE 4402	CEE 4404	SU 3600	Open
Tech	CEE 4333	CEE 4993	CEE 4333	CEE 4333	SU 2050	Group B Elective Choose CEE course
CEE 4020 or CEE 4030	CEE 4020 or CEE 4030	CEE 4020	CEE 4020	CEE 4020	CEE 4020	CEE 4020
CEE Design Elective	Any CEE Design Course	Any CEE Design Course	CEE 4407, CEE 4620, or CEE 4665	CEE 4407	CEE 4407	CEE 4620 or CEE 4665
CEE Core Elective	CEE 3202 or CEE 3401 or CEE3503	CEE 3202 or CEE 3401 or CEE3503	CEE 3503	CEE 3401	CEE 3401	CEE 3503
Minor	<u>Construction</u> <u>Management</u>	Humanitarian	<u>Municipal</u> <u>Engineering</u>	Rail Transportation	Surveying	Ecological

CIVIL ENGINEERING ELECTIVE LISTS

CEE 4000+ TECHNICAL ELECTIVES & CEGE DESIGN ELECTIVES

TECHNICAL ELECTIVE RULES

- Any 2000 or higher level course in Construction Mgt (CMG)
- Any 2000 or higher level course in Geospatial Engineering (SU)
 - Any 3000 or higher level course in Civil or Env Engrg (CEE) GE3850 (Geohydrology)
 - GE4800 (Groundwater Engineering)

CONSTRUCTION

- CEE4333 Estimating, Planning, Construction (Fall) 3 cr.
 - CEE4344/CMG4120 Construction Scheduling (Sp) 3 cr.
 - CMG2110 Building Utility Systems (Fall) 4 cr.
- CMG2140 Building Materials & Methods (Sp) 3 cr.
- CMG3200 Site Planning and Development (Sp) 4 cr. CMG3265 - Construction Cost Estimating (Sp) 4 cr.
- CMG4100 Construction Equipment Management (On Demd) 3 cr.
 - CMG4200 Construction Contracts (Fall) 3 cr.
- CMG4210 Construction Project Management (Fall) 4 cr.
- CMG4300 Construction Finance and Accounting (Fall) 3 cr.
 - CMG4400 Construction Safety Management (Fall) 3 cr.
 - CMG4800 Sustainable Construction (Sp) 3 cr.

GEOTECH

- CEE4820 Foundation Engineering (Fall) 3 cr.
 - CEE4830 Geosynthetics (Sp) 3 cr.
- CEE5850 Rock Engineering (Sp) 3 cr. CEE5840 Advanced Soil Mechanics (Fall) 3 cr.
- CEE5850 Ground Engineering (Sp) 3 cr.

TRANSPORTATION/MATERIALS

- CEE4101 Bituminous Materials (Fall) 3 cr.
- CEE4401 Pavement Design (Fall) 3 cr.
- CEE4404 Railroad Engineering (Fall) 3 cr. CEE4402 - Traffic Engineering (Fall) 3 cr.
 - CEE4406 Airport Planning (Sp) 3 cr.

CEE5402 - Traffic Flow Theory (Sp) 3 cr. CEE5402 - Traffic Flow Theory (Sp) 3 cr.

PROFESSIONAL ELECTIVES

- Computer Science, Fine Arts or Forestry. (CS, ART, FW, MUS, SND, Any 1000 or higher level course in THEA)
- Construction Management, Geology, Physics or Geospatial Engineering. Any 2000 or higher level course in Biological Sciences, Chemistry, (BĽ, CH, CMG, GE, PH, SŪ)

CEE4993 - Engrg with Developing Comm. (Fall) 3 cr. CEE4030 - Building Information Modeling (Fall) 3 cr.

CEE4020 - Digital Project Delivery (Fall) 3 cr. CEE4760 - Optimization Methods (Sp) 3 cr.

DEPARTMENT WIDE COURSES

- Any 2000 or higher level course in Business or Economics (ACC, BUS, EC, FIN, MGT, MIS, MKT, OSM).
 - Any 3000 or higher level course in University Wide (MA, HU, PSY, SS, Psychology, Social Sciences or Mathematics, Humanities,
- Civil and Environmental Engineering Any 3000 or higher level course in (CEE) or any other Engineering Dept.

STRUCTURES

CEE4521 - Bioremediation Eng. (Sp) 3 cr. (Even years, i.e. 23-24) CEE4507 - Water Distribution & Collection (Sp) 3 cr. CEE4511 - Solid & Haz. Waste Eng. (Sp) 3 cr. (Odd years, i.e)

CEE4505 - Surface Water Quality (Fall) 3 cr. CEE4506 - Sustainable Engineering (Sp) 3 cr.

CEE4503 - Water Treatments (Sp) 3 cr.

CEE4504 - Air Quality (Fall) 3 cr.

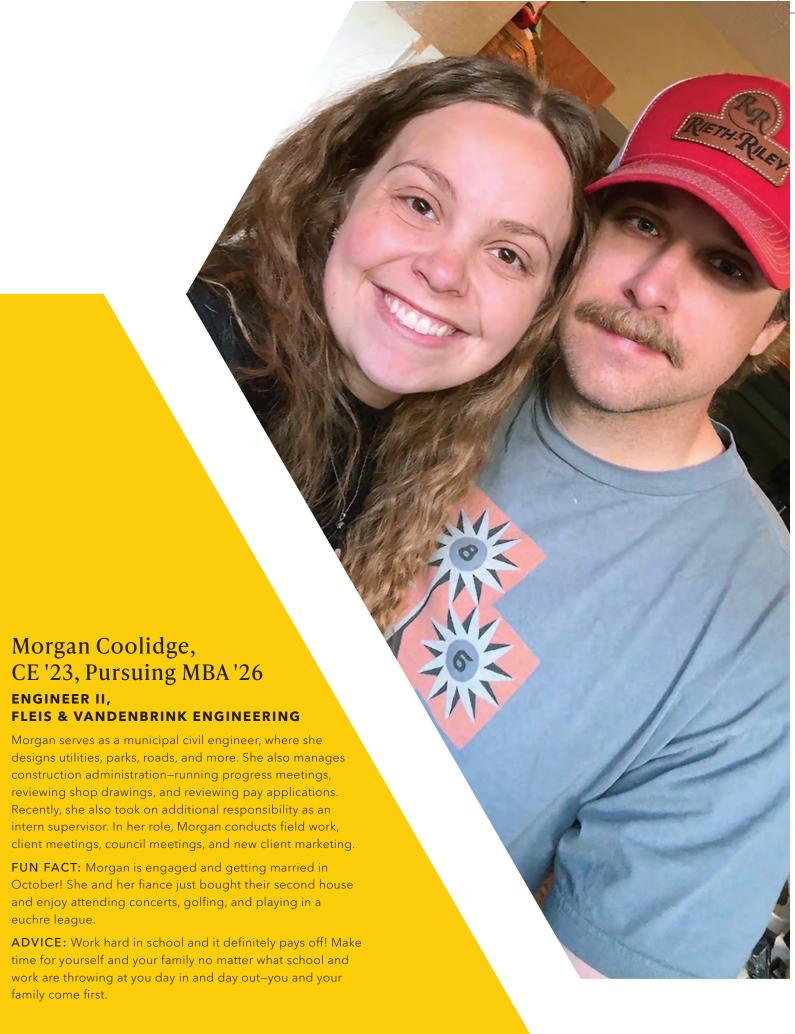
CEE4502 - Waste Treatment (Fall) 3 cr.

ENVIRONMENTAL

- CEE4213 Structural Concrete Design (Sp) 4 cr. CEE4201 - Matrix Structural Analysis (Fall) 3 cr.
 - CEE4233 Structural Timber Design (Sp) 3 cr. CEE4223 - Steel Design I (Fall) 4 cr.
- CEE4244 Loads for Civil Structures (Sp) 3 cr.
- CEE5213 Concrete/Masonry Building Sys. (Fall) 3 cr CEE5212 - Prestressed Concrete Design (Fall) 3 cr.

MATER RESOURCES

- CEE4610 Water Resource Stream Modeling (Sp) 3 cr. CEE4620 - River & Floodplain Hydraulics (Fall) 3 cr.
 - CEE4650 Hydraulic Structures (Variable) 3 cr. CEE4640 - Stormwater Mgt & LID (Su) 3 cr.
 - CEE4665 Stream Restoration (Sp) 3 cr.
- CEE5620 Stochastic Hydrology (Sp) 3 cr.
- CEE5666 Water Res. Planning & Mgt (Variable) 3 cr.
 - GE3850 Geohydrology (Sp) 3 cr.
- GE4800 Groundwater Engineering (Sp) 3 cr.



Safe drinking water.
Air quality.
Waste management.
Turn your passion into a career as an environmental engineer.

What can you do as an EEN at Michigan Tech? Here's the short answer:

- Participate in Engineers without Borders and International Senior
 Design, which provide education, research, and service opportunities
- Design water systems in rural Panama
- Use state-of-the-art equipment for labs, assignments, research, and projects such as our pilot-scale environmental simulation lab
- Get involved with the Green Campus Enterprise and design and implement projects to improve the sustainability of the Tech campus

Course Descriptions

Environmental Engineering course descriptions can be found here: MTU.EDU/CATALOG/COURSES

Academic Advising



Julie Ross
ACADEMIC ADVISOR

(906) 487-3410 <u>jzross@mtu.edu</u> Dillman 103

mtu.edu/cege/people/faculty-staff



Autumn Sanford, EEN '22

EFFLUENT APPLICATIONS ENGINEER VOITH MERI ENVIRONMENTAL SOLUTIONS, INC.

As an effluent applications engineer, Autumn works across a solution driven sales and technology services team to collaborate with other engineer teams and managers to complete projects related to industrial effluent treatment plants (ETP). Her sales role has her creating ETP design layouts, process flow diagrams, environmental benefits lists, project proposals, and machine sizing and pricing with suppliers.

FUN FACT: She took an international trip to Munich, Germany, where she partnered with German and Chinese colleagues to exchange ETP knowledge and best practices.

ENVIRONMENTAL ENGINEERING FLOWCHART

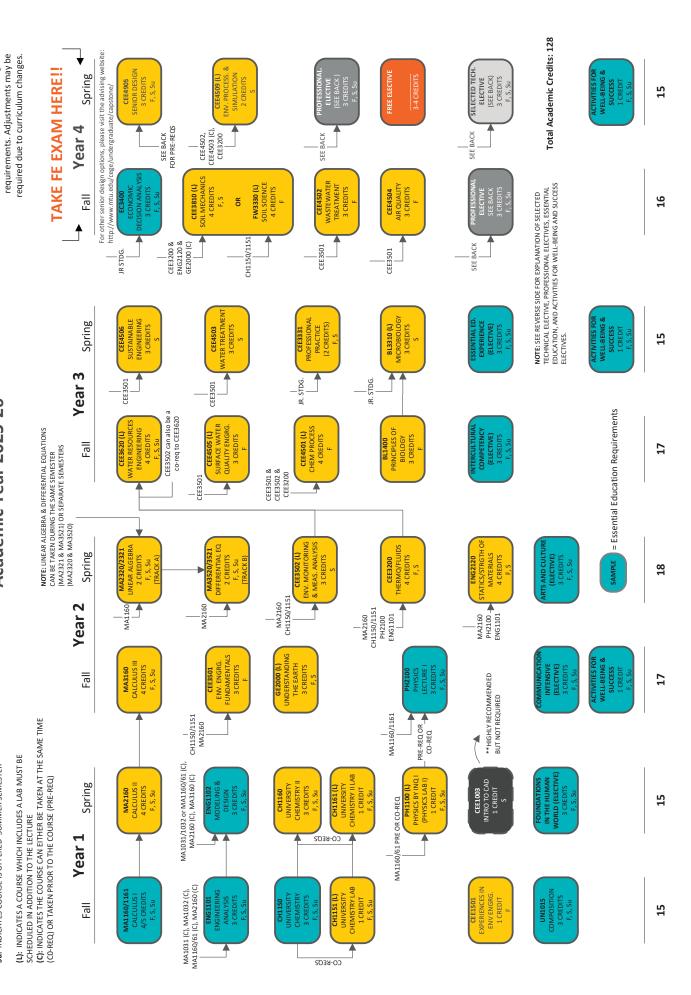
Michigan Tech This is not an official list of degree

Academic Year 2025-26

F: INDICATES COURSE IS OFFERED FALL SEMESTER

5: INDICATES COURSE IS OFFERED SPRING SEMESTER

5u: INDICATES COURSE IS OFFERED SUMMER SEMESTER



PROFESSIONAL ELECTIVES (6 cr)

- ANY 1000 OR HIGHER LEVEL COURSE IN BIOLOGY, CHEMISTRY, GEOLOGY, FORESTRY, OR PHYSICS (BL, CH, CS, CMG, GE, FW, PUTER SCIENCE, CONSTRUCTION MANAGEMENT,
- ECONOMICS. (ACC, BUS, EC, FIN, MGT, MIS, MKT, OSM) ANY 2000 OR HIGHER LEVEL COURSE IN BUSINESS OR
- ANY 2000 OR HIGHER LEVEL COURSE IN GEOSPATIAL
 - ENVIRONMENTAL ENGINEERING OR IN ANY OTHER ANY 3000 OR HIGHER LEVEL COURSE IN CIVIL AND ENGINEERING DEPARTMENT
- ANY 3000 OR HIGHER LEVEL COURSE IN HUMANITIES, SOCIAL SCIENCES, OR UNIVERSITY WIDE. (HU, SS, UN)
- ANY 4000 OR HIGHER LEVEL COURSE IN MATHEMATICS (MA)

REMEDIATION – think about taking GE 3850 (Geohydrology) and

- Biogeochemistry), CEE 4665 (Stream Restoration), and FW 4220 NATURAL SYSTEMS – think about taking CEE 4518 (Aquatic CEE 4511 (Solid & Hazardous Waste Engineering)
- MUNICIPAL ENGINEERING think about taking CEE 4507 (Water Hazardous Waste Engineering), and SU 2000 (Surveying and GIS Fundamentals)* (only 2 credits)
- taking MEEM 4240 (Combustion & Air Pollution) and CH 4515 ATMOSPHERIC PROCESSES & AIR POLLUTION – think about
- Floodplain Hydraulics), CEE 4640 (Stormwater Management and Low Impact Development), and CEE 4665 (Stream Restoration) WATER RESOURCES – think about taking CEE 4620 (River and

COURSES MAY BE USED TOWARD YOUR BS ENVE DEGREE.

OTHER COURSES MAY BE USED TO SATISFY THE PROFESSIONAL ELECTIVES REQUIREMENT IF APPROVED BY THE DEPARTMENT OF

SELECTED TECHNICAL ELECTIVES (3 cr)

GE3850 Geohydrology (Spring)

CEE4511 Solid & Hazardous Waste Engineering (Spring) CEE4507 Water Dist. & Wastewater Collect. (Spring) CEE4518 Aquatic Biogeochemistry (Fall - Alt Years) **CEE4521** Bioremediation Engineering (Spring)

CEE4640 Stormwater Management and LID (Summer) CEE4528 Global Biogeochemistry (Fall – Alt Years) CEE4620 River & Floodplain Hydraulics (Fall)

CEE4993 Engrg with Developing Communities (Fall) **CEE4665** Stream Restoration (Spring)

MEEM4240 Combustion & Air Pollution (Fall/Spring) CH4515 Atmospheric Chemistry (Spring)

SENIOR DESIGN PREREQUISITES

Complete 7 of the following courses:

CEE3810/FW3330 - Soil Mechanics or Soil Science CEE4501 - Env. Engineering Chem Processes CEE3620 – Water Resources

CEE4502 - Wastewater Treatment CEE4503 - Water Treatment

CEE4505 - Surface Water Quality CEE4504 - Air Quality

CEE4509 – Env. Process and Simulation CEE4506 - Sustainable Engineering

UNDERGRADUATE CATALOG (COURSE DESCRIPTIONS):

www.mtu.edu/catalog/courses/

ESSENTIAL ED:

https://www.mtu.edu/registrar/essential-education/ overview/

ESSENTIAL EDUCATION REQUIREMENTS

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1. Core: (16 credits min)

Composition-focused Course

Science Math

MA1160/61

ENG1101 UN1015 **ENG1102**

PH2100

STEM

Foundations in the Human World

2.a. Distribution Pathway: (18 credits)

Communication Intensive Intercultural Competency

Arts and Culture List SHAPE Course

STEM

Essential Ed Experience (E3)

CH1150

EC3400

OR

2.b. Minor Pathway: (18 credits)

Minor Course Minor Course

Minor Course Minor Course

Minor Course Minor Course 3. Activities for Well-Being: (3 credits)

ENVIRONMENTAL ENGINEERING FOCUS AREAS

Course Suggestions

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Professional Elective #1

Professional Elective #2

Selected Tech Elective

Free Elective

Atmospheric Processes and Air Pollution

GE2640
Atmospheric
Observations and
Meteorology

CH4515 Atmospheric Chemistry

MEEM4240 Combustion & Air Pollution

GE3250 Computational Geoscience

CEE4521Bioremediation
Engineering

Hazardous Waste

Geohydrology

GE3850

Remediation

Solid and

CEE4511

Engineering

BL4120
Env. Remediation
or BL4070
Env. Toxicology

CEE4620 River and Floodplain Hydraulics

Water Resources

CEE4507
Water Distribution &
Wastewater
Collection

Follow Current Guidelines

CEE4640
Stormwater Mgmt.
or CEE4650
Hydraulic Structures

Stream Restoration

CEE4665

General Environmental Engineering

Follow Current Guidelines

Follow Current Guidelines

Follow Current Guidelines

EAS	Additional Credits	•		UN3002 Summer Co-op (1 cr)	Bottom Elective List May count for Ess Ed
ENVIRONMENTAL ENGINEERING FOCUS AREAS Course Suggestions With Minors Included	Free Elective		CEE4402 Traffic Engineering	Pick a course from Administrative Skills Electives	Bottom Elective List May count for Ess Ed
NEERING	Selected Tech Elective	Pick a Selected Tech Elective from Group A	Pick a Selective Tech Elective from Elective Area	CEE4507 Water Distribution & Wastewater Collection	CEE4993 Engineering with Developing Comm
AENTAL ENGINEERING FOC Course Suggestions With Minors Included	Professional Elective #2	Pick a Prof Elective from Group B	CEE4333 Estimating and Planning	FW3540 Into to GIS	SS Elective (3000+)
TRONMEN Cour	Professional Elective #1	FW4220 Wetlands	CEE3332 Fundamentals of Construction	SU2000 Intro to Surveying	ENG4515 Introduction to Sustainability
	Minors	Ecological Engineering Minor	Municipal Engineering Minor	Water Resource Recovery. Technology Minor	<u>Humanitarian</u> <u>Engineering Minor</u>

If you like math, computing, and the outdoors, you may have what it takes to be a geospatial engineer.

The Geospatial Engineering degree prepares students to:

- Become state-licensed Professional Surveyors. Applications include accurate location of real property boundaries, data capture of the natural/man-made objects on the earth's surface, and digital mapping for use in design or planning.
- Manage large volumes of digital geoinformation that can be stored, manipulated, visualized, analyzed, and shared. Courses focus on applications of managing geoinformation using Geographic Information Science (GIS) tools, remote sensing, big data acquisition, and cloud computing.

Course Descriptions

Geospatial Engineering course descriptions can be found here: MTU.EDU/CATALOG/COURSES

Academic Advising



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ACADEMIC ADVISOR

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mtu.edu/geo/department/staff

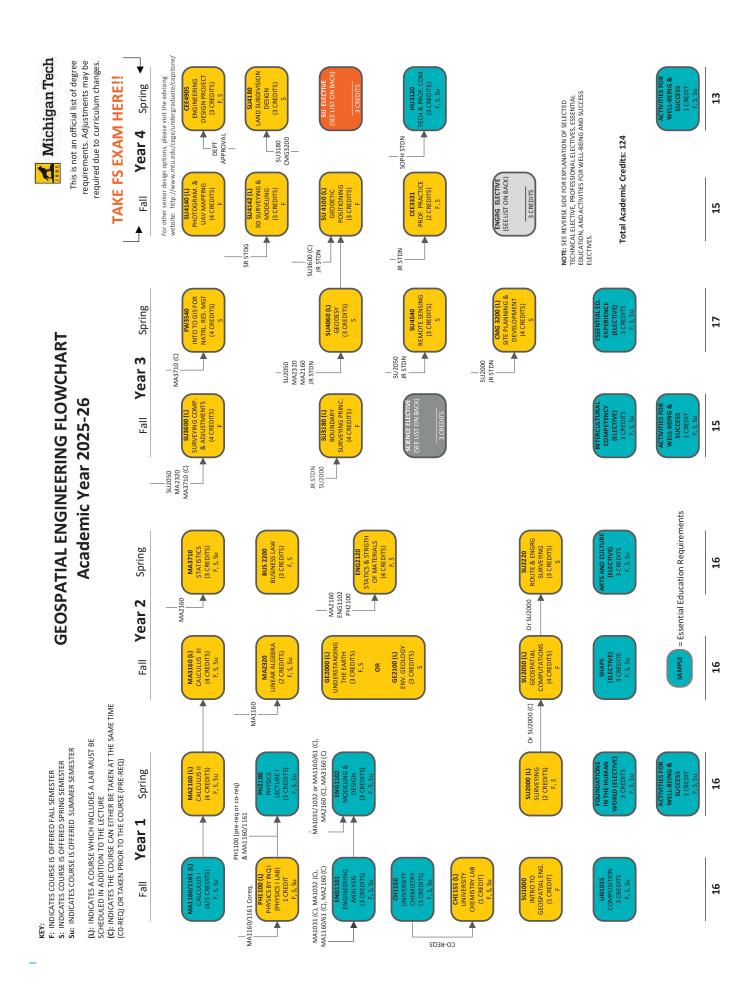


Matthew Kunkel SU '18

SURVEY TECHNICIAN: WOLVERINE ENGINEERS & SURVEYORS **ADJUNCT FACULTY:** LANSING COMMUNITY COLLEGE

Matthew stays up-to-date with all the latest surveying technology, processing and extracting topographic features from LiDAR operations, as well as conducting research and utilizing CAD for route, boundary, and ALTA surveys.

FUN FACT: He put his hands-on classroom experience to the test through a co-op with the Michigan Department of Transportation, where he was able to conduct surveys in Eagle Harbor.



CEE3101 Civil Engineering Materials (F, S) 3 cr CEE3200 Thermo/Fluids (F, S, Su) 4 cr CEE3322 Fundamentals of Construction (F, S) 3 cr CEE332 Transportation Engineering (F, S) 3 cr ENTXXXX Enterprise (Except 3960/4950) (F, S) var UN3002 Co-op (F, S, Su) var

	3 cr 4 cr 1 cr 4 cr 3 cr + 1 cr 3 cr + 1 cr
SCIENCE ELECTIVES (3 credits)	Valuing the Great Lakes (F, Su) Botany (S) Chemistry Recitation I (F, S, Su) Vegetation of North America (F) Physics II (F, S, Su) Introductory Astronomy & Lab (F, S, Su) Geohydrology (S)
	BL2001 BL2160 CH1153 FW2010 PH1200/2200 PH1600/1610 GE3850

	SURVEYING ELECTIVES (3 credits)		
SU4010	Geospatial Concepts, Technologies, and Data	3 cr	
SU4011	Cadastre and Land Information Systems	3 cr	
SU4012	Geospatial Data Mining and Crowdsourcing	3 cr	
SU4013	Hydrographic Mapping & Surveying	3 cr	
SU4300	Geospatial Monitoring	3 cr	
SU4996	Special Topics in Geospatial Technologies	var	
SU4997	Independent Study in Geospatial Technologies	var	
SU4998	Undergrad Research in Geospatial Technologies	var	

UNDERGRADUATE CATALOG (COURSE DESCRIPTIONS):

www.mtu.edu/catalog/courses/

ESSENTIAL ED:

https://www.mtu.edu/registrar/essential-education/overview/

ESSENTIAL EDUCATION REQUIREMENTS

ESSENTIAL ED FOR GEOSPATIAL ENGINEERING	IL ENGINEERING
1. Core: (16 credits min)	
Seminar	ENG1101
Composition-focused Course	<u>UN1015</u>
Math	MA1160/61
Science	PH2100
STEM	ENG1102
Foundations in the Human World	
2.a. Distribution Pathway: (18 credits)	
Communication Intensive	HU3120
Intercultural Competency	
SHAPE Course	
Arts and Culture List	
STEM	<u>CH1150</u>
Essential Ed Experience (E3)	
OR	
2.b. Minor Pathway: (18 credits)	
Minor Course	
3. Activities for Well-Being: (3 credits)	
•	
-	

A degree in construction management prepares you to take charge of building projects—from structures and roads to homes and hospitals.

Our accredited program includes a background in accounting, scheduling, and business practices—setting us apart and allowing our students to enjoy 100% job placement.

- Our faculty have decades of real-world construction and construction administration experience
- Our classes are small-providing individual attention and mentoring
- Our construction management program is accredited by the American Council for Construction Education

Course Descriptions

Construction Management course descriptions can be found here: MTU.EDU/CATALOG/COURSES

Academic Advising



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ACADEMIC ADVISOR

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mtu.edu/cege/people/faculty-staff



Matthew Wray CMG '19

SOLUTIONS/SALES ENGINEER PROCORE TECHNOLOGIES

Matthew demonstrates the value of Procore construction management software to prospective clients and assists with measuring the feasibility of use within their operations. He now resides in Denver and is able to work from home through the industry experiences he gained in his role and in internships.

FUN FACT: He traveled the US during the first three years of his career, working on some of the biggest projects in the country, including the largest solar farm east of the Mississippi River and the largest LNG facility in the world in Cameron, Louisiana.

KEY: F: INDICATES COURSE IS OFFERED FALL SEMESTER S: INDICATES COURSE IS OFFERED SPRING SEMESTER Su: INDICATES COURSE IS OFFERED SUMMER SEMESTER

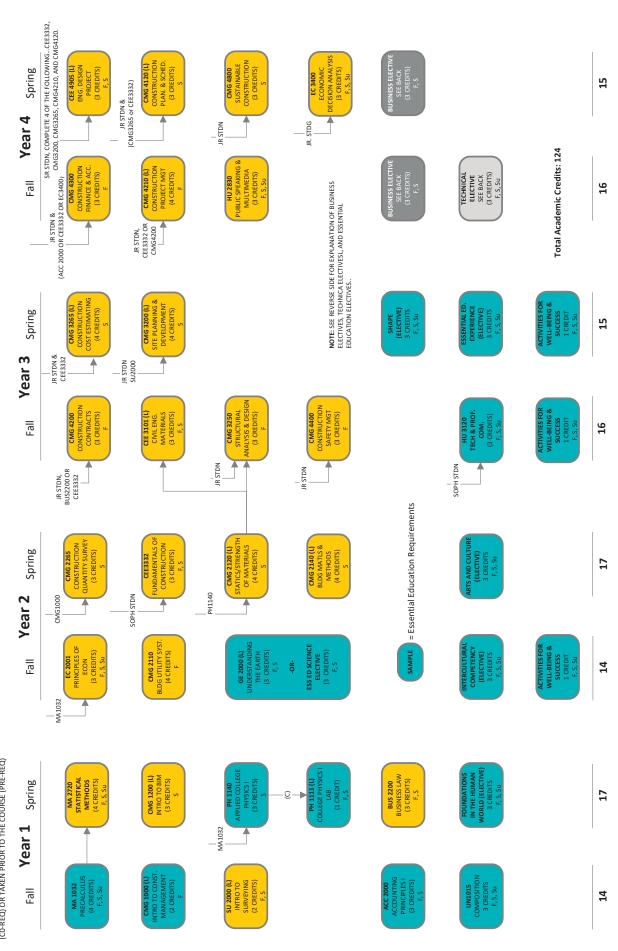
(L): INDICATES A COURSE WHICH INCLUDES A LAB MUST BE SCHEDULED IN ADDITION TO THE LECTURE (C): INDICATES THE COURSE CAN EITHER BE TAKEN AT THE SAME TIME (CO-REQ) OR TAKEN PRIOR TO THE COURSE (PRE-REQ)

CONSTRUCTION MANAGEMENT FLOWCHART

Academic Year 2025-26

This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.

Michigan Tech



BUSINESS ELECTIVES (6 credits)

3 cr	3 cr.	3 cr.	3 cr.	3 cr.	3 cr.
Team Dynamics and Decision Making (F, S)	Organizational Behavior (F, S)	Innovation & Entrepreneurship (F, S)	Operations & Supply Chain Management (F, S, Su)	Intro to Supply Chain Management (F)	Procurement and Supply Management (F)
MGT 2000	MGT 3000	MGT 3800	OSM 3000	OSM 3150	OSM 3600

TECHNICAL ELECTIVES (3 credits)

3 cr.	2 cr.	3 cr.	1 cr.	3 cr.	3 cr.	3 cr	3 cr.) 3 cr.	var.	var.	var.	1 cr.	1 cr.	1 cr.	3 cr.	ı) 3 cr.	3 cr.	3 cr.	3 cr.	3 cr.	3 cr.	4 cr.	3 cr.	var.	
Quantitative Problem Solving (F, S)	Professional Practice (F, S)	Transportation Engineering (F, S)	Intro to Rail Transportation (F)	Bituminous Materials (F)	Structural Timber Design (S)	Estimating and Planning of Construction Proj. (F)	Design-Build Project Delivery (On Demand)	Construction Equipment Management (On Demand) 3 cr.	Spec. Topics in CMG (On Demand)	Ind. Study in CMG (On Demand)	UG Research in CMG (On Demand)	Fundamentals of Six Sigma (F)	Design of Six Sigma (S)	Lean Six Sigma Principles (F)	Organizational Behavior (F, S)	Management of Technology and Innovation (F, S, Su) 3 cr.	Principles of Marketing (F, S, Su)	Operations & Supply Chain Management (F, S, Su)	Intro to Supply Chain Management (F)	Procurement and Supply Management (F)	Six Sigma Fundamentals (F, S)	Geospatial Computations (F)	Route/Engineering Surveying (S)	Undergrad Cooperative Education I (F, S, Su)	
BUS 2300	CEE 3331	CEE 3401	CEE 3490	CEE 4101	CEE 4233	CEE 4333	CMG 4000	CMG 4100	CMG 4996	CMG 4997	CMG 4998	ENT 3959	ENT 3967	ENT 3984	MGT 3000	MGT 4600	MKT 3000	OSM 3000	OSM 3150	OSM 3600	OSM 4650	SU 2050	SU 2220	UN 3002	

ESSENTIAL EDUCATION REQUIREMENTS

ESSENTIAL ED FOR CONSTRUCTION MANAGEMENT

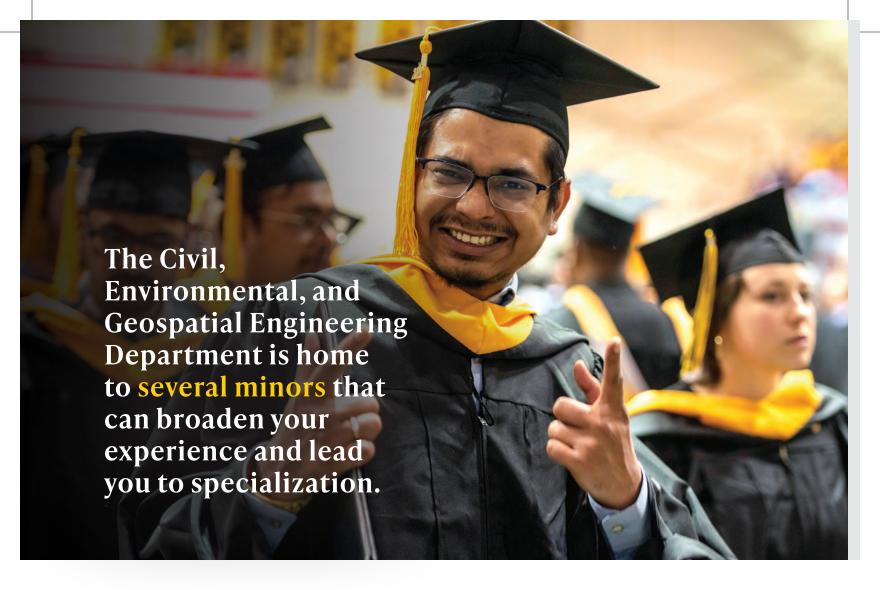
1. Core: (16 credits min)

Seminar	<u>CMG1000</u>
Composition-focused Course	<u>UN1015</u>
Math	<u>MA1032</u>
Science	GE2000 or Ess Ed Sci Course
STEM	PH1140 + PH1111
Foundations in the Human World	
2.a. Distribution Pathway: (18 credits)	
Communication Intensive	HU3120
Intercultural Competency	
SHAPE Course	
Arts and Culture List	
STEM	ACC2000
Essential Ed Experience (E3)	
OR	
2.b. Minor Pathway: (18 credits)	
Minor Course	
3. Activities for Well-Being: (3 credits)	

https://www.mtu.edu/registrar/essential-education/overview/

ESSENTIAL ED:

UNDERGRADUATE CATALOG (COURSE DESCRIPTIONS): www.mtu.edu/catalog/courses/



MUNICIPAL ENGINEERING

Plan for a career with a city or municipality and broaden your skillset. Build a working knowledge of the planning, design, building, and municipality's facilities.

Courses include:

- Transportation engineering
- Traffic engineering
- Water and wastewater treatment
- Water distribution and wastewater collection system design
- Hydraulic structures

RAIL TRANSPORTATION

Participate in innovative courses and develop skills to become a specialist and leader in the railroad industry. Pick your path with a focus on civil, mechanical, or electrical, while learning the logistics, management, and communication skills to meet the demands of rail industry careers.

Courses include:

- Railroad engineering
- Logistics and transportation management
- Public transit
- Transportation engineering
- Vehicle dynamics
- Control systems

Complete list of minors: mtu.edu/catalog/degrees/minors

SURVEYING

Enhance your degree with a minor in surveying, where you will learn how to utilize the latest technology in remote sensing and transits to verify and establish boundaries. Build sustainable development practices for the design and layout of infrastructure.

Courses include:

- Surveying computations and adjustments
- Geodesy
- Route and construction surveying
- Boundary surveying principles
- Photogrammetry
- Land subdivision design

HUMANITARIAN ENGINEERING

Make a difference by helping design and implement practices in disaster relief and in rural development of under-served communities. Learn how these practices provide access to clean water, enhance air quality, and build systems for water and wastewater management.

Courses include:

- Engineering with developing communities
- International field experience
- World resources and development
- Communicating across cultures
- Anthropology of international development

CONSTRUCTION MANAGEMENT

Gain valuable industry-specific skills for the construction industry, including estimating, safety, scheduling, contracts, project management, and project controls. Students are introduced to industry-standard technologies and up-to-date methods that will prepare them for success.

Courses include:

- Construction contracts
- Construction project management
- Construction planning and scheduling
- Construction cost estimating
- Construction finance and accounting
- Construction safety management

ECOLOGICAL ENGINEERING

Broaden expertise in engineering disciplines relating to earth sciences to understand natural system through outdoor lab to create sustainable systems in natural, urban, and agricultural settings.

Courses include:

- Principles of Biology
- Wetlands
- Water resource engineering
- Introduction to sustainability and resilience
- River and floodplain hydraulics
- Engineering with developing communities

WATER RESOURCE RECOVERY TECHNOLOGY

Secure hands-on experience through an internship with a water resource recovery facility to be ready to enter the workforce as a municipal wastewater treatment plant operator.

Courses include:

- Wastewater treatment principles and design
- Water distribution and wastewater collection design
- Stormwater management
- Environment and society
- Introduction to public policy
- Undergraduate co-op

Accelerated Masters and Graduate Certificates

Our Department offers two Accelerated Master's degrees as well as many Graduate Certificates. These programs enable students to double count approved undergraduate credits toward their advanced degree. Certificates can be stacked to allow students to work toward a Master's degree.

mtu.edu/cege/graduate/accelerated

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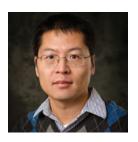
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Essential Education requirements

- Students must complete three main components of Essential Education (First-Year Experience, Distribution or Minor Pathway, and Activities for Well-being and Success) with the credit distributions as shown below. A minimum of 37 credits is required to complete these requirements.
- Up to five Essential Education requirements and the Michigan Tech Seminar may be shared (double-counted) with major requirements. Work with your advisor to determine which major requirements may satisfy Essential Education requirements.
- Some courses are on more than one list, but each course can satisfy only one Essential Education requirement.
- Students may choose between an Essential Education minor or the Distribution Pathway. The list of Essential Education minors can be found here: mtu.edu/essential-ed/overview/curriculum
- Lists of courses for each requirement can be found on the Essential Education page: mtu.edu/essential-ed/resources/requirements

First-Year Experience (16 credits)

- Michigan Tech Seminar (1)
- Math (3)
- Natural and Physical Science (3)
- STEM (3)
- Composition (3)
- Foundations of the Human World (3)

Distribution Pathway (18 credits)

- Communication Intensive (3)
- Intercultural Competency (3)
- Arts and Culture (3)
- STEM (3)
- SHAPE (3)
- Essential Education Experience (3)

Activities for Well-being and Success (3 credits)



Tyler LeMahieu, BS EEN '22, MS EEN '23

HYDRAULIC STRUCTURES ENGINEER, US FOREST SERVICE

As a hydraulic structures engineer, Tyler conducts bridge inspections, manages

bridge programs, and handles bridge and culvert design reviews. He stepped in as the primary designer of aquatic organism passage culverts in the Chequamegon-Nicolet National Forest and has produced about 25 designs this year! Through his role, he is able to teach and train others in Civil3D, GIS, & HEC-HMS and work with Trout Unlimited, local tribes, and on old dams and remote trail bridges.

FUN FACT: Before beginning his role, he did a lap of Lake Michigan where he spent time surfing, seeing friends, and camping–pastimes he has been able to continue with his wife while honeymooning in Hawaii.



M-45 (2)			CTEM (4)		
Math (3)			<u>STEM (6)</u>		
BUS2100	Business Statistics	3	All	Math list courses	
BUS3000	Introduction to Business Analytics	3	All	Natural and Physical Science list courses	
EC4100	Mathematical Economics	3	ACC2000	Accounting Principles I	3
EC4200	Econometrics	3	ACC2100	Accounting Principles II	3
MA1020	Quantitative Literacy	4	ACC3000	Intermediate Accounting I	3
MA1031	College Algebra II with Trigonometry	3	ACC3500	Managerial Cost Accounting	3
MA1032	Precalculus	4	BL2000	Biology of Movement and Meditation	3
MA1135	Calculus for Life Sciences	4	BL3001	Emergency Medical Technician I	3
MA1160	Calculus with Technology I	4	CS1111	Programming in C/C++	3
MA1161	Calculus Plus with Technology	5	CS1121	Introduction to Programming I	3
MA2160	Calculus with Technology II	3	CS1122	Introduction to Programming II	3
MA2720	Statistical Methods	4	CS1131	Accelerated Introduction to Programming	5
MIS4400	Business Intelligence and Analytics	3	DATA1200	Data Science with Python	3
PSY2720	Statistics for the Behavioral Sciences	4	DATA2201	Foundations of Data Science	3
SS2720	Statistics for Social Sciences	4	EET1121	Circuits I	4
SS4010	Applied Statistics for Social Sciences	3	EET1411	Basic Electronics	4
Natural ar	nd Physical Science (3)		ENG1102	Engineering Modeling and Design	3
BL1100		3	FIN4000 FIN4200	Investment Analysis	
BL1100	General Biology I General Biology II	3	FIN4200 FIN4500	Derivatives and Financial Engineering	3
BL1200 BL1400	Principles of Biology	3	FIN4500 FIN4600	Risk Management FinTech Foundations	3
BL1400 BL2010	Anatomy & Physiology I	3	FIN4700	Global Finance	3
BL2010	Botany	4	FW3075	Introduction to Biotechnology	3
BL2100	Zoology	4	GE1200	Intro to Data Sci Earth Resources	1
BL2170	Human Nutrition	3	GE2010	Intro to GIS	3
BL4090	Tropical Island Biology	2	KIP1500	Foundations of Kinesiology	3
CH1000	Introductory Chemistry	3	KIP 1300 KIP3100	Exercise Assessment and Prescription	3
CH1150	University Chemistry I	3	MIS2000	IS/IT Management	3
CH1160	University Chemistry II	3	MIS2100	Introduction to Business Programming	3
CH2590	The Chemistry of Color and Art Materials	3	MIS3100	Business Database Management	3
FW1035	Wood Anatomy and Properties	3	MIS3200	Systems Analysis and Design	3
FW2060	Fundamentals of Environmental Sustainability	3	MIS3500	User-Centered Design	3
FW2081	Introduction to Circular Economy	3	MIS4000	Emerging Technologies	3
FW3330	Soil Science	4	MIS4200	Management of Cyber Security	3
FW3610	Ornithology	4	OSM3000	Operations & Supply Chain Management	3
FW4120	Tree Physiology	3	OSM3600	Procurement & Supply Management	3
FW4128	Conservation Genetics	3	PSY3060	Brain and Behavior	3
FW4240	Mammalogy	4	SAT1610	Computer and OS Architecture	3
GE2000	Understanding the Earth	3	SAT2711	Linux Fundamentals	3
GE2300	Mineral Science	3	SND1150	Sound Technology	3
GE3320	Earth History	3	SND4121	Transducer Theory Lab	3
GE3850	Geohydrology	3	SS2050	Fundamentals of GIS	3
GE4150	Natural Hazards	3	SS3221	Archaeological Sciences	3
PH1090	The Physics Behind Music	3	SS3510	History of American Technology	3
PH1110	College Physics I	4	SS3511	History of Science in America	3
PH1140	Applied College Physics I	4	SS3800	Energy Policy and Technology	3
PH1160	Honors Physics I-Mechanics	5		- 3, ·, · - 5	J
PH1210	College Physics II	3			
PH1600	Introductory Astronomy	3			
PH2100	University Physics I-Mechanics	3			
SS3250	Biological Anthropology	3			

Foundations of the Human World (3)			Composition	on (3)	
ART1000	Art Appreciation	3	UN1015	Composition	3
BUS1100	Introduction to Business	3		•	
EC2001	Principles of Economics	3	Communic	cation Intensive (3)	
FIN2400	Financial Literacy	3	AF3001	Leading People and Effective Communication	3
HF2000	Introduction to Engineering Psychology	3	CH3124	Communication for the Chemical Sciences	3
HU2130	Introduction to Rhetoric	3	HU2500	Writing About Literature	3
HU2200	Introduction to World Cultures	3	HU2510	Intro to Creative Writing	3
HU2241	Level I-A Less Commonly Taught Languages	var	HU2810	Research & Writing in Communication	3
HU2242	Level I-B Less Commonly Taught Languages	var	HU2830	Public Speaking & Multimedia	3
HU2271	Level I-A French Language & Culture	3	HU2840	Interpersonal Communication and Technology	3
HU2272	Level I-B French Language & Culture	3	HU3015	Advanced Composition	3
HU2273	Transitional Level I French Language & Culture	3	HU3105	Writing about Numbers	3 3 3 3 3
HU2281	Level I-A German Language & Culture	3	HU3120	Technical and Professional Communication	3
HU2282	Level I-B German Language & Culture	3	HU3130	Rhetoric of Science and Technology	3
HU2291	Level I-A Spanish Language & Culture	3	HU3140	Rhetoric of Health and Medicine	3 3 3
HU2292	Level I-B Spanish Language & Culture	3	HU3151	The Rhetoric of Everyday Texts	3
HU2293	Transitional Level I Spanish Language & Culture	3	HU3160	Rhetoric and Culture of Games	3
HU2324	Introduction to Film	3	HU3283	German Composition and Conversation	
HU2400	Conversations on Culture and Diversity	3	HU3293	Level II-C Spanish Composition & Conversation	3
HU2503	Introduction to Literature	3	HU3514	Workshop Creative Nonfiction	3
HU2505	Humanities, Science, and Technology	3	HU3515	Workshop in Poetry	3 3 3 3 3 3 3 3 3 3
HU2700	Introduction to Philosophy	3	HU3516	Workshop in Fiction	3
HU2701	Logical and Critical Thinking	3	HU3517	Literary Theory and Criticism	3
HU2702	Ethical Theory and Moral Problems	3	HU3518	Workshop in Sci Fi Writing	3
HU2820	Communication and Culture	3	HU3519	Workshop in Nature Writing	3
HU2825	Technology and Media	3	HU3606	Editing	3
MUS1000	Music Appreciation	3	HU3692	Writing for Scientific Audiences	3
MUS1140	Popular Songwriting	3	HU3693	Science Writing for Public	3
PSY2000	Introduction to Psychology	3	HU3694	Grant Writing	3
SAT1700	Cyber Ethics	3	HU3698	Writing for Health/Medical Audiences	
SND1000	Sound in Art and Science	3	HU3699	Health/Medical Writing for Public Audiences	3 3 3 3
SS1500	Introduction to History	3	HU3825	Environmental Communication	3
SS2100	Introduction to Cultural Anthropology	3	HU3832	Virtual Encounters	3
SS2200	Introduction to Archaeology	3	HU3845	Human-Machine Communication	3
SS2210	Community Development and Planning	3	HU4625	Risk Communication	3 3 3
SS2300	Environment and Society	3	MA4945	History of Mathematics	3
SS2400	Introduction to Human Geography	3	SND4120	Transducer Theory	3
SS2450	Introduction to Sustainable Tourism	3	SS3240	Reading the Landscape	3
SS2500	United States History to 1877	3	SS3420	Imaginary Worlds: Geographies of Science Fiction and Fantasy	3
SS2501	US History Since 1877	3	SS3501	Making History	3
SS2502	European History to 1650	3	SS3520	U.S. Environmental History	3
SS2503	European History Since 1650	3	SS3535	History of Privacy	3
SS2504	World History to 1500	3	SS3552	Renaissance & Reformation	3
SS2505	World History Since 1500	3	SS3950	Topics in American History	3
SS2600	American Government and Politics	3	SS3951	Topics in European History	3
SS2610	Introduction to Law and Society	3	SS3952	Topics in World History	3
SS2625	Introduction to American Foreign Policy	3	SS4001	History of Social Thought	3
SS2635	Comparative Politics	3	SS4040	Civic Communications	3 3 3 3
SS2700	Introduction to Sociology	3	SS4540	Global Environmental History	3
SS2750	Racial Inequality	3	SS4550	History of Technology	3
THEA1000	Theatre Appreciation	3	THEA1170	Voice and Movement	3
THEA1140	Foundations of Entertainment Design	3	THEA2310	Drafting for the Entertainment Industry	
THEA1400	Acting I	3	THEA2470	Voice Acting Fundamentals	3
UN 1025	Global Issues	3	THEA3320	Lighting Design	3



Intercultural Competency (3)

			intorountar	ar compoterioy continued	
ART3180	Color and Creativity: Exploring the Power of Color	3	SS3640	Selected Topics in Cyber-Law	3
ART3420	World Sculpture Traditions	3	SS3660	Constitutional Law	3
BL3970	Current Health Issues	3	SS3661	Civil Rights & Civil Liberties	3
EC3100	International Economics	3	SS3665	Crime, Incarceration, and Policy	3
EC4710	Labor/Human Resource Economics	3	SS3750	Social Inequality	3
FW4111	Indigenous Natural Resources Management	3	SS3805	Environmental Justice	3
HU3135	Power and Bias in Technology Design	3	SS3811	Energy Security and Justice	3
HU3261	Communicating Across Cultures	3	SS3920	Topics in Anthropology/Archaeology	3
HU3262	Topics in Francophone Cultures	3	SS3961	Preparing for Cross-Cultural Immersion Experiences	
HU3263	Topics in German-Speaking Culture	3	SS4211	Ethnographic Methods	3
HU3264	Topics in Spanish-Speaking Culture	3	SS4420	Memory and Heritage	3
HU3284	Level III German Literature & Culture	3			3
HU3294	Hispanic Literatures and Culture	3	SS4450	Sustainable Tourism and Planning	-
HU3296	Survey of Hispanic Literatures and Cultures	3	SS4710	Geographies of Migrant and National Communities	3
		3	THEA3201	Theatre History	3
HU3326	Topics in World Cinema		THEA3230	Costume History	3
HU3400	Topics in Diversity Studies	3	THEA3330	Costume Design	3
HU3401	Gender and Culture	3	Seminar (1	1)	
HU3502	Mythology	3			
HU3507	Cultural Traditions in Literature	3	BL1580	First-Year Experience in Biological Sciences	1
HU3508	Literature and the Environment	3	BL1600	First-Year Experience in MLS	1
HU3545	Literature across Borders	3	CH1134	Professional Development Seminar for Chemists	1
HU3554	Science Fiction	3	CMG1000	Introduction to Construction Management	2
HU3710	Engineering Ethics	3	CS1000	Explorations in Computing	1
HU3800	Media and Society	3	DATA1000	Explorations in Data Science	1
HU3830	Creativity, Culture, & Change	3	ENG1101	Engineering Analysis and Problem Solving	3
HU3850	Automated Culture: Critical Approaches to Al	3	FW1050	Natural Resource Professional	2
HU3855	Power, Activism, and Technology	3	GE1100	Geo-Orientation	1
HU3860	Cultural Theory and Popular Culture	3	HF1999	Introduction to HF Major	1
HU3871	Media Theory	3	HU1000	Introduction to Humanities	1
HU3950	Sound and Culture	3	KIP1000	Introduction to Exercise Science	1
HU4271	Modern Language Seminar I-French	3	MA1910	Exploring Symmetry Groups	3
HU4272	Modern Language Seminar II-French	3	MA1920	Exploring Knots and Surfaces	3
HU4281	Modern Language Seminar I-German	3	MA1930	Exploring Number Theory	3
HU4282	Modern Language Seminar II-German	3	MA1940	Exploring Non-Euclidean Geometry	3
HU4283	Modern Language Seminar III-German	3	NUR1100	Introduction to Nursing	2
HU4291	Modern Language Seminar I-Spanish	3	PH1162	Introduction to Physics Seminar	1
HU4292	Modern Language Seminar II-Spanish	3	PSY1999	Introduction to the Psychology Major	1
HU4293	Modern Language Seminar III-Spanish	3	SAT1000	Introduction to Applied Computing	1
HU4725	Existentialism and Phenomenology	3	SS1001	Orientation to the Social Sciences	1
MGT3000	Organizational Behavior	3	THEA1001	First Year Arts Seminar	1
MGT4100	International Management	3	UN1013	Michigan Tech Seminar	1
MKT4300	Global Marketing	3	UN2013	Michigan Tech Transfer Seminar	1
PSY3340	Psychology of Race	3	0112010	Mioringan Foot Francisco Comman	•
PSY3720	Social Psychology	3			
PSY4340	Culture and Cognition	3			
SS3105	Native American and Indigenous Communities	3			
SS3110	Food Systems and Sustainability	3			
SS3225	Capitalism and the Modern World	3			
SS3260	Latin American Cultural History	3			
SS3542	History of Detroit	3			
SS3612	International Relations	3			

Intercultural Competency continued

Arts and Culture (3)

ART1100	Drawing I	3
ART1110	Art + Design Studio	3
ART2100	Drawing II	3
ART2110	Art on Site	3
ART2140	Ceramics I	3
ART2145	Beginning Wheel Throwing	3
ART2170	Fiber Arts	3
ART2195	Art and Flora	3
ART2350	Scenic Art & Scenic Illustration	3
ART2950	Creative Campus: Local Arts Immersion	3
ART3130	Creative Drawing II	3
ART3140	Creative Ceramics	3
ART3145	Ceramic Sculpture	3
ART3410	Contemporary Sculpture Studio	3
ART3850	Special Topics: Art	var
ART4410	Advanced Sculpture Studio	3
ART4440	Advanced Ceramics	3
ART4450	Advanced Creative Drawing & Painting	3
HU2501	American Experience in Literature	3
HU2538	British Experience in Literature	3
HU2548	Young Adult Literature	3
HU2633	Fundamentals of Digital Imaging	3
HU2645	Graphic and Information Design	3
HU3241	Level II-A Less Commonly Taught Languages	var
HU3242	Level II-B Less Commonly Taught Languages	var
HU3281	Level II-A German Language & Culture	3
HU3282	Level II-B German Language & Culture	3
HU3285	Level III German Film & Media	3
HU3291	Level II-A Spanish Language & Culture	3
HU3292	Level II-B Spanish Language & Culture	3
HU3327	Film Style and Genre	3
HU3503	Special Topics in Literature and Culture	3
HU3504	Studies in the Novel	3
HU3505	Special Topics Literary Forms	3
HU3506	Major Authors	3
HU3509	Studies in Drama	3
HU3513	Shakespeare Literature and Science	3
HU3557		3
HU3630	Publication and Information Management	3
HU3700 HU3701	Philosophy of Science	3
HU3702	Philosophy of Technology Philosophy of Religion	3
HU3704	Ethics of Artificial Intelligence	3
HU3705	Media and Communication Ethics	3
HU3711	Biomedical Ethics	3
HU3802	Media and Globalization	3
HU3852	See and Be Seen: Data, Surveillance & Society	3
HU3872	Machines in the Mist: Visuality and Culture	3
HU3882	Media Industries	3
HU4327	Multimedia Storytelling	3
HU4370	Documentary Workshop	3
HU4642	Advanced Topics in Media	3
HU4701	Political Philosophy	3
MUS1100	Western Music Fundamentals	3
MUS1580	Group Voice	3
	1	-

Arts and Culture continued

MUS2000	History of Classical Music	3
MUS2001	Film Music	3
MUS2020	History of Rock	3
MUS2030	History of Jazz	3
MUS2040	Music and Tradition	3
MUS2103	Jazz Theory and Aural Skills	3
MUS3020	Beatles and Beach Boys	3 3 3 3 3 3 3 3
MUS3130	Jazz Improvisation	3
MUS3210	Electronic Music: History and Practice	3
MUS3850	Special Topics: Music	var
MUS4130	Jazz Arranging	3
PSY2082	Psychology of Friendship	3 3 3 3 3 3
PSY2083	Psychology of Happiness	3
PSY2600	Death and Dying	3
PSY3880	Psychology of Social Media	3
SND1101	Introduction to Music Mixing	3
SND1102	Intro to Audio Production	3
SND3850	Special Topics: Sound	var
SS2510	Gender and the Past	3
SS3513	History of Making Things: Craft and Industry in America	3
SS3530	The Automobile in America	3
SS3540	History of Michigan	3
SS3580	Technology and Society in History	3
SS3581	History of Science	3
SS4200	Environmental Anthropology	3
SS4220	Archaeological Thought in Society	3
SS4552	Historical Archaeology	3 3 3 3 3 3 3
SS4553	Material Culture Studies	
SS4600	Indus & Historical Archaeology	3
SS4990	Directed Study in Anthropology	var
THEA3400	Acting II	3
THEA3850	Special Topics: Theatre	var
THEA4400	Acting: Shakespeare	3
THEA4402	Musical Theatre Performance	3



Jemel Thompson, EEN '22

CIVIL/WATER RESOURCE ENGINEER, FISHBECK

Jemel's work centers around hydraulic modeling and design for projects related to stream restoration, green infrastructure, and stormwater

planning for municipal clients across the Midwest. He has had the opportunity to model, design, and build different hydraulic infrastructure, worked on a major groundwater remediation project in Michigan, and practice environmental sampling techniques for different constituents.

FUN FACT: Outside of work, Jemel enjoys volunteering, playing in a local symphony orchestra, and collecting magnets from every state he's visited.



SHAPE Elective (3)

SHAPE Elective continued

SHAPE EIG	ective (3)		SHAPE EIG	ective continued	
All	Foundations Courses list courses		MGT3100	Leadership Development	3
All	Arts and Culture Courses list courses		MGT3650	Intellectual Property Management	3
All	Communication Intensive Courses list courses		MGT3800	Entrepreneurship	3 3 3
All	Intercultural Competency Courses list courses		MGT4300	Developing Entrepreneurial Ventures	3
AF1340	Field Training	1	MGT4500 MGT4600	Management of Technology and Innovation	3
AF2001	Team and Leadership Fundamentals I	1	MGT4650	Commercialization of Advanced Technologies	3
					ა ე
AF2002	Team and Leadership Fundamentals II	1	MKT3000	Principles of Marketing	3
AF3001	Leading People and Effective Communication I	3	MKT3200	Consumer Behavior and Culture	3
AF3002	Leading People and Effective Communication II	3	MKT4100	Sales and Sales Management	3
AF4001	Nat'l Security/Leadership Resp/Commissioning Prep I	3	PSY2010	Wellness and Resilience for College and Beyond	3
AF4002	Nat'l Security/Leadership Resp/Commissioning Prep II	3	PSY2080		var
AR2001	Leadership and Ethics w/Lab	2	PSY2081	Psychology of Video Games	3
AR2002	Army Doctrine and Decision Making w/Lab	2	PSY2110	Educational Psychology	3
BL2001	Valuing the Great Lakes	3	PSY2400	Health Psychology	3
BL3090	Spirituality in Healthcare	3	PSY2800	Critical Thinking for Social and Behavioral Science:	s 3
BUS2200	Business Law	3	PSY2900	An Introduction to Restorative Practices	3
CS3000	Ethical and Social Aspects of Computing	3	PSY3010	Theories of Personality	3
EC3002	Microeconomic Theory	3	PSY3030	Abnormal Psychology	3
EC3003	Macroeconomic Theory	3	PSY3200	Motivation and Emotion	3
EC3300	Industrial Organization	3	PSY3400	Developmental Psychology	3 3 3
EC3400	Economic Decision Analysis	3	PSY3600	Cognitive Psychology	3
EC4050	Game Theory/Strategic Behavior	3	PSY3700	Industrial/Organizational Psychology	3
EC4400	Banking and Financial Institutions	3	PSY3800	Environmental Psychology	3
EC4500	Public Sector Economics	3	PSY4080		
		3	PSY4750		var
EC4620	Energy Economics	ა ე		Judgment and Decision Making	3
EC4630	Mineral Industry Economics	3	SS2001	Intro to Social Science Research	3
EC4640	Natural Resource Economics	3	SS2620	Introduction to Public Policy	3
EC4650	Environmental Economics	3	SS3200	Archaeology of the Modern World	3 3 3 3 3
ENG2060	Facilitating Group Learning	1	SS3230	Archaeology of Industry	3
ENG3060	Developing Mentoring Skills	1	SS3280	Anthropology of Energy	3
ENG4060	Leadership in Group Environments	1	SS3315	Population and Environment	3
ENT2961	Teaming in the Enterprise	2	SS3505	Military History of the U.S.	3
ENT2962	Communication Contexts	1	SS3515	History of American Architecture	3
ENT3958	Ethics in Engineering	1	SS3621	Non-Profit Management	3
FIN4300	Personal Financial Planning	3	SS3625	Policy Analysis	3
FW3313	Sustainable Science	3	SS3630	Environmental Policy & Politics	3
GE2100	Environmental Geology	3	SS3650	Intellectual Property Management	3
HF3850	Human Factors	3	SS3755	Sustainability and the Private Sector	3 3 3
HF4015	Cognitive Task Analysis	3	SS3801	Science, Technology, & Society	3
HON2150	Know Yourself	1	SS3815	Energy and Society	3
HON3150	Pavlis Seminar II	1	SS3990		var
HON3350	Navigate Your World	3	SS4009	Survey Methods	3
HON4150	Pavlis Seminar III	1	SS4120	Sustainable Development	3
HON4350	Tell Your Story	3	SS4230	Archaeological Analysis and Interpretation	2
HU2600	Introduction to Writing in Science & Technology	3			3
			SS4313	Sustainability Science	ა ი
HU2646	Writing with Web Technologies	3	SS4390	Seminar in Sustainability	3
HU3121	Advanced Technical Writing	3	SS4400	Environmental Sociology	3
HU3295	Level III Advanced Spanish for Literacies	3	SS4554	Global Industrial History	
HU4628	Usability Evaluation and Testing	3	SS4995		var
HU4635	Principles of User Experience Design	3	THEA1110	Entertainment Technology I	3
HU4890	Topics in Communication	3	THEA1120	Lighting Technology I	3
IS2002	International Studies in situ - Social & Behavioral Science	var	THEA1130	Costume Technology I	3
KIP2600	Introduction to Public Health	3	THEA3340	Scenic Design	3
KIP3700	Lifetime Fitness	3			
MGT2000	Team Dynamics	3			

AR1003	Activities for Well-Being and Success (3)		Activities for Well-Being and Success continued			
AR1003	AF1120	Physical Conditioning	1	PE1128	Alpine Skiing Fusion	1
AR2068	AR1001	Introduction to the Army w/Lab	1	PE1129	Snowboard Fusion	1
AR2068	AR1003	Foundations of Leadership w/Lab	1	PE1135	Cross Country Skiing	1
AR3068	AR2068	Fall Military Physical Conditioning	1	PE1138		1
AR3069	AR2069	Spring Military Physical Conditioning	1	PE1140	Tennis	1
ART1855 Special Arts Activities for Wellness + Success 1 PE1146 Billiards ART1855 Special Arts Workshop for Wellness + Success 5 PE1148 Skaling ENT3951 Ignite: Ideate, Innovate, Create! 1 PE1152 Social Dance ENT3959 Fundamentals of Six Sigma 1 PE1153 Zumba ENT3961 Deliver: Explore, Develop, Execute! 1 PE1153 Zumba ENT3963 Deliver: Explore, Develop, Execute! 1 PE1154 Aerobics ENT3963 Deliver: Explore, Develop, Execute! 1 PE1155 Road Biking ENT3964 The Culture of Continuous Improvement 1 PE1155 Road Biking ENT3971 7 Habits of Highly Effective People 1 PE1156 Rowing ENT3972 Continuous Improvement Using Lean Principles 1 PE1165 Rowing ENT3982 Continuous Improvement 1 PE1167 Beginning Yoga ENT3983 The Culture of Continuous Improvement 1 PE1167 Beginning Yoga ENT3983 The Culture of Continuous Improvement 1 PE1167 Beginning Yoga ENT3983 The Culture of Continuous Improvement 1 PE1167 Beginning Yoga ENT3983 The Culture of Continuous Improvement 1 PE1167 Beginning Yoga ENT3983 The Culture of Continuous Improvement 1 PE1167 Beginning Yoga ENT3983 The Culture of Continuous Improvement 1 PE1167 Beginning Yoga ENT3983 The Culture of Continuous Improvement 1 PE1169 Indoor Cycling ENT3991 The Culture of Continuous Improvement 1 PE1169 Indoor Cycling ENT3991 The Culture of Continuous Improvement 1 PE1169 Indoor Cycling ENT3991 The Culture of Continuous Improvement 1 PE1169 Indoor Cycling ENT3991 Workshop Brass Band 1 PE1170 Textwork Young Indoor Cycling ENT3991 Workshop Brass Band 1 PE1170 Textwork Young Indoor Cycling ENT3991 Workshop Brass Band 1 PE1107 Special Topics Intermediate Aikido MUS5530 Workshop Brass Band 1 PE1209 Special Topics Introduction to Canocing ENT3991 Workshop Wind Symphony 1 PE1209 Introduction to Canocing ENT3991 Superior Wind Symphony Orchestra 1 PE1220 Indoor Rock Climbing ENT3991 Superior Wind Symphony Orchestra 1 PE1209 Introduction to Log Rolling ENT3991 Superior Wind Symphony Province Introduction to Rayaking ENT3991 Superior Wind Symphony Province Introduction to Rayaking ENT3991 Superior Wind Sym	AR3068	Physical Training Leadership I	1	PE1142	Introduction to Brazilian Jiu Jitsu	1
ART1855 Special Arts Workshop for Wellness + Success 5 PE1146 Lifetime Activities	AR3069	Physical Training Leadership II	1	PE1145	Rifle Marksmanship	1
ENT3953 Ignile: Ideate, Innovate, Createl 1	ART1850	Special Arts Activities for Wellness + Success	1	PE1146	Billiards	1
ENT3959	ART1855	Special Arts Workshop for Wellness + Success	.5	PE1148	Skating	1
ENT3961 Building and Leading Toams 1	ENT3953	Ignite: Ideate, Innovate, Create!	1	PE1150	Lifetime Activities	1
ENT3963 Deliver: Explore, Develop, Execute! 1 PE1154 Aerobics ENT3974 Project Management 1 PE1155 Road Biking ENT3982 Continuous Improvement Using Lean Principles 1 PE1165 Rowing ENT3982 The Culture of Continuous Improvement 1 PE1167 Beginning Yoga FW3620 Field Ornithology 1 PE1167 Beginning Yoga HON1150 Launch Your Journey 1 PE1170 TacKwonDo MUS1510 Huskies Pep Band 1 PE1177 Turbuskies Pep Band MUS1510 Campus Concert Band 1 PE1175 Hiking MUS1510 Workshop Brass Band 1 PE1205 Special Topics MUS1530 Workshop Brass Band 1 PE1205 Intermediate Alkido MUS2580 Concert Choir 1 PE1209 Intermediate Alkido MUS3530 Superior Wind Symphony Orchestra 1 PE1225 Indoor Rock Climbing MUS3530 Superior Wind Symphony 1 PE1225	ENT3959	Fundamentals of Six Sigma	1	PE1152	Social Dance	1
ENT3944	ENT3961	Building and Leading Teams	1	PE1153	Zumba	1
ENT3994	ENT3963	Deliver: Explore, Develop, Execute!	1	PE1154	Aerobics	1
ENT3982	ENT3964		1	PE1155	Road Biking	1
ENT3982	ENT3971	7 Habits of Highly Effective People	1	PE1156	Mountain Biking	1
ENT3893	ENT3982		1	PE1165	· · · · · · · · · · · · · · · · · · ·	1
Field Ornithology	ENT3983		1	PE1167		1
HON1150			1	PE1169		1
MUS15101 Huskles Pep Band 1 PE1175 Hikling MUS1510 Campus Concert Band 1 PE11205 Special Topics MUS1530 Workshop Brass Band 1 PE1205 Special Topics MUS1530 Private Music Instruction 1 PE1209 Intermediate Alkido MUS2530 Concert Choir 1 PE1220 Introduction to Canoeing MUS3500 Keweenaw Symphony Orchestra 1 PE1225 Indoor Rock Climbing MUS3510 Superior Wind Symphony 1 PE1235 Introduction to Kayaking MUS3530 Jazz Lab Band 1 PE1235 Introduction to Log Rolling MUS3530 Jazz Lab Band 1 PE1235 Introduction to Log Rolling MUS4530 Chamber Choir 1 PE1235 Introduction to Log Rolling MUS4530 Jazz Lab Band 1 PE1235 Introduction to Log Rolling MUS4510 Chamber Choir 1 PE1245 Suita Introduction to Log Rolling MUS4530 Active Mi	HON1150		1	PE1170		1
MUS15101 Campus Concert Band 1 PE1177 Fundamentals of Laser Tag MUS1570 Workshop Brass Band 1 PE1209 Intermediate Aikido MUS1570 R & D Jazz Band 1 PE1209 Intermediate Aikido MUS2530 R & D Jazz Band 1 PE1210 Special Topics MUS3500 Keweenaw Symphony Orchestra 1 PE1220 Introduction to Canoeing MUS3510 Superior Wind Symphony 1 PE1235 Indoor Rock Climbing MUS3530 Superior Wind Symphony 1 PE1230 Introduction to Kayaking MUS3530 Jazz Lab Band 1 PE1235 Indoor Rock Climbing MUS4510 Chamber Choir 1 PE1242 Snowshoeing MUS4510 Chamber Choir 1 PE1242 Brazilian Jiu Jitsu II MUS4510 Chamber Choir 1 PE1242 Brazilian Jiu Jitsu II MUS4530 Jazz Combo var PE1245 Wilderness First Responder PE1000 Filtness Foundations 1 PE1267	MUS1510		1	PE1175	Hiking	1
MUS1530 Workshop Brass Band 1 PE1205 Special Topics MUS1570 Private Music Instruction 1 PE1209 Intermediate Aikido MUS2530 R & D Jazz Band 1 PE1210 Special Topics MUS2580 Concert Choir 1 PE1225 Introduction to Canoeing MUS3510 Superior Wind Symphony 1 PE1225 Indoor Rock Climbing MUS3530 Jazz Lab Band 1 PE1235 Introduction to Kayaking MUS3530 Jazz Lab Band 1 PE1230 Introduction to Kayaking MUS4530 Chamber Choir 1 PE1240 Snowshoeing MUS4530 Chamber Choir 1 PE1242 Brazilian Jiu Jitsu II MUS4530 Jazz Combo var PE1242 Brazilian Jiu Jitsu II MUS4510 Chamber Music Ensemble 1 PE1242 Brazilian Jiu Jitsu II MUS4530 Jazz Combo var PE1242 Brazilian Jiu Jitsu II MUS4530 Akilede Michigan Tech 1 PE1267 Intermedia	MUS1511		1	PE1177	Fundamentals of Laser Tag	1
MUS1570 Private Music Instruction 1 PE1209 Intermediate Alkido MUS2530 R & D Jazz Band 1 PE1210 Special Topics MUS2580 Concert Choir 1 PE1220 Introduction to Canoeing MUS3500 Keweenaw Symphony Orchestra 1 PE1225 Indoor Rock Climbing MUS3510 Superior Wind Symphony 1 PE1235 Introduction to Kayaking MUS3530 Jazz Lab Band 1 PE1235 Introduction to Log Rolling MUS4530 Chamber Choir 1 PE1242 Brazilian Jiu Jitsu II MUS4530 Chamber Music Ensemble 1 PE1242 Brazilian Jiu Jitsu II MUS4530 Jazz Combo var PE1245 Wilderness First Responder PE1000 Fitness Foundations 1 PE1250 Paintball PE1010 Active Michigan Tech 1 PE1267 Intermediate Yoga PE1101 Team Sports 1 PE1270 Cardio TaeKwonDo PE1102 Hockey 1 PE1330 Club Sp			1	PE1205		.5
MUS2530 R & D Jazz Band 1 PE1210 Special Topics MUS2580 Concert Choir 1 PE1220 Introduction to Canoeing MUS3510 Superior Wind Symphony 1 PE1235 Indoor Rock Climbing MUS3530 Jazz Lab Band 1 PE1235 Introduction to Kayaking MUS3580 Chamber Choir 1 PE1240 Snowshoeing MUS4510 Chamber Music Ensemble 1 PE1240 Snowshoeing MUS4530 Jazz Combo var PE1242 Brazilian Jiu Jitsu II MUS4530 Jazz Combo var PE1245 Wilderness First Responder PE1000 Fitness Foundations 1 PE1250 Paintball PE1001 Active Michigan Tech 1 PE1267 Intermediate Yoga PE1010 Active Michigan Tech 1 PE1270 Cardio TaeKwonDo PE1101 Team Sports 1 PE1277 Strategies of Laser Tag PE1102 Hockey 1 PE1330 Club Sports PE1105 Bowling 1 PE1337 Mindful Yoga			1	PE1209		1
MUS2580 Concert Choir 1 PE1220 Introduction to Canoeing MUS3500 Keweenaw Symphony Orchestra 1 PE1225 Indoor Rock Climbing MUS3510 Superior Wind Symphony 1 PE1230 Introduction to Kayaking MUS3530 Jazz Lab Band 1 PE1235 Introduction to Log Rolling MUS3580 Chamber Choir 1 PE1240 Snowshoeing MUS4510 Chamber Music Ensemble 1 PE1242 Brazilian Jiu Jitsu II MUS4530 Jazz Combo var PE1245 Wilderness First Responder PE1000 Fliness Foundations 1 PE1250 Paintball PE1001 Active Michigan Tech 1 PE1267 Intermediate Yoga PE1002 Ski Patrol (Hill) 1 PE1270 Cardio TaeKwonDo PE1101 Team Sports 1 PE1277 Strategies of Laser Tag PE1102 Hockey 1 PE1330 Club Sports PE1103 Bait and Fly Casting 1 PE1340 Intramurals <	MUS2530		1	PE1210		1
MUS3500 Keweenaw Symphony Orchestra 1 PE1225 Indoor Rock Climbing MUS3510 Superior Wind Symphony 1 PE1230 Introduction to Kayaking MUS3530 Jazz Lab Band 1 PE1235 Introduction to Log Rolling MUS3580 Chamber Choir 1 PE1242 Snowshoeing MUS4510 Chamber Music Ensemble 1 PE1242 Brazilian Jiu Jitsu II MUS4530 Jazz Combo var PE1245 Wilderness First Responder PE1000 Fitness Foundations 1 PE1250 Paintball PE1010 Active Michigan Tech 1 PE1267 Intermediate Yoga PE1028 Ski Patrol (Hill) 1 PE1270 Cardio TaeKwonDo PE1101 Team Sports 1 PE1277 Strategies of Laser Tag PE1102 Hockey 1 PE1330 Club Sports PE1103 Bait and Fly Casting 1 PE1342 Intro to Kickboxing PE1105 Bowling 1 PE1367 Mindful Yoga PE1106 Golf 1 PE1367 Mindful Yoga <td></td> <td>Concert Choir</td> <td>1</td> <td></td> <td></td> <td>1</td>		Concert Choir	1			1
MUS3510 Superior Wind Symphony 1 PE1230 Introduction to Kayaking MUS3530 Jazz Lab Band 1 PE1235 Introduction to Log Rolling MUS3530 Jazz Lab Band 1 PE1242 Brazilian Jiu Jitsu II MUS4510 Chamber Music Ensemble 1 PE1242 Brazilian Jiu Jitsu II MUS4530 Jazz Combo var PE1245 Wilderness First Responder PE1000 Fitness Foundations 1 PE1250 Paintball Intermediate Yoga PE1021 Active Michigan Tech 1 PE1267 Intermediate Yoga PE1028 Ski Patrol (Hill) 1 PE1270 Cardio TaeKwonDo PE1101 Team Sports 1 PE1277 Strategies of Laser Tag PE1102 Hockey 1 PE1330 Club Sports PE1103 Bait and Fly Casting 1 PE1342 Intro to Kickboxing PE1105 Bowling 1 PE1342 Intro to Kickboxing PE1106 Golf 1 PE1455 Intramurals PE1109 Akido 1 PE1435 Self-Defense for Women PE1115 Beginning Swimming 1 PE1436 Self-Defense for Men PE1117 Fitness Swimming 1 PE1441 Kickboxing II PE1141 Mountain/Road Bike Fusion PE1117 Fitness Swimming 1 PE1450 Water Safety Instructor PE1120 Beginning Skiing (Downhill) 1 PE1420 Varsity Boxed Water Safety Instructor PE1120 Beginning Skiing (Downhill) 1 PE2020 Varsity Boxed PE1121 Telemark Skiing 1 PE2030 Varsity Boxed PE1125 Intermediate Spinoboarding 1 PE2040 Varsity Hockey PE1125 Intermediate Spinoboarding 1 PE2040 Varsity Hordic Skiing PE1125 Intermediate Snowboarding 1 PE2040 Varsity Nordic Skiing Intermediate Snowboarding 1 PE2040 Varsity Nordic Skiing Intermediate Snowboarding 1 PE2050 Varsity Nordic Skiing Inter		Keweenaw Symphony Orchestra	1	PE1225		1
MUS3530 Jazz Lab Band 1 PE1235 Introduction to Log Rolling MUS3580 Chamber Choir 1 PE1240 Snowshoeing MUS4510 Chamber Music Ensemble 1 PE1242 Brazilian Jiu Jitsu II MUS4530 Jazz Combo var PE1245 Wilderness First Responder PE1000 Fitness Foundations 1 PE1250 Paintball PE1010 Active Michigan Tech 1 PE1267 Intermediate Yoga PE1028 Ski Patrol (Hill) 1 PE1270 Cardio TaeKwonDo PE1101 Team Sports 1 PE1277 Strategies of Laser Tag PE1102 Hockey 1 PE1342 Intro to Kickboxing PE1103 Bait and Fly Casting 1 PE1342 Intro to Kickboxing PE1105 Bowling 1 PE1342 Intro to Kickboxing PE1106 Golf 1 PE1425 Intramurals PE1108 Broomball 1 PE1430 Club Sports Leadership PE1109 Aikido 1 PE1430 Club Sports Self-Defense for Women PE1113 Disc Sports 1 PE1430 Self-Defense for Women PE1115 Beginning Swimming 1 PE1442 Kickboxing II PE1116 Intermediate Swimming 1 PE1450 Physical Education Fusion – Full PE1117 Fitness Swimming 1 PE1451 Mountain/Road Bike Fusion PE1119 Conditioning 1 PE1480 Water Safety Instructor PE1120 Beginning Alpine Skiing (Downhill) 1 PE2000 Varsity Boxcer PE1121 Beginning Snowboarding 1 PE2000 Varsity Boxcer			1	PE1230		1
MUS3580Chamber Choir1PE1240SnowshoeingMUS4510Chamber Music Ensemble1PE1242Brazilian Jiu Jitsu IIMUS4530Jazz CombovarPE1245Wilderness First ResponderPE1000Fitness Foundations1PE1250PaintballPE1010Active Michigan Tech1PE1267Intermediate YogaPE1028Ski Patrol (Hill)1PE1270Cardio TaeKwonDoPE1101Team Sports1PE1277Strategies of Laser TagPE1102Hockey1PE1330Club SportsPE1103Bait and Fly Casting1PE1330Club SportsPE1105Bowling1PE1367Mindful YogaPE1106Golf1PE1425IntramuralsPE1108Broomball1PE1430Club Sports LeadershipPE1109Aikido1PE1430Self-Defense for WomenPE1113Disc Sports1PE1436Self-Defense for MenPE1115Beginning Swimming1PE1442Kickboxing IIPE1116Intermediate Swimming1PE1450Physical Education Fusion – FullPE1117Fitness Swimming1PE1451Mountain/Road Bike FusionPE1119Conditioning1PE1470Lifeguard SwimmingPE1120Beginning Alpine Skiing (Downhill)1PE2010Varsity FootballPE1121Beginning Snowboarding1PE2000Varsity Nordic SkiingPE1125Intermediate A			1		, ,	1
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PE1010 Active Michigan Tech PE1028 Ski Patrol (Hill) PE1101 Team Sports PE1102 Hockey PE1102 Hockey PE1103 Bait and Fly Casting PE1105 Bowling PE1106 Golf PE1107 Aikido PE1107 Aikido PE1108 Broomball PE1108 Beginning Swimming PE1109 Aikido PE1111 Disc Sports PE1112 Beginning Swimming PE1114 Disc Swimming PE1115 Reginning Swimming PE1116 Disc Sports PE1117 Fitness Training PE1118 Weight/Fitness Training PE1119 Conditioning PE1110 Beginning Alpine Skiing (Downhill) PE1121 Beginning Snowboarding PE1122 Intermediate Alpine Skiing (Downhill) PE1124 Intermediate Alpine Skiing (Downhill) PE1125 Intermediate Snowboarding PE2010 Varsity Nordic Skiing	MUS4530	Jazz Combo	var	PE1245	Wilderness First Responder	1
PE1028 Ski Patrol (Hill) 1 PE1270 Cardio TaeKwonDo PE1101 Team Sports 1 PE1277 Strategies of Laser Tag PE1102 Hockey 1 PE1330 Club Sports 1 PE1330 Club Sports PE1103 Bait and Fly Casting 1 PE1342 Intro to Kickboxing PE1105 Bowling 1 PE1367 Mindful Yoga PE1106 Golf 1 PE1425 Intramurals Club Sports Leadership PE1108 Broomball 1 PE1430 Club Sports Leadership PE1109 Aikido 1 PE1435 Self-Defense for Women PE1113 Disc Sports 1 PE1435 Self-Defense for Women PE1113 Disc Sports 1 PE1436 Self-Defense for Men PE1115 Beginning Swimming 1 PE1442 Kickboxing II PE1116 Intermediate Swimming 1 PE1442 Kickboxing II PE1117 Fitness Swimming 1 PE1451 Mountain/Road Bike Fusion PE1118 Weight/Fitness Training 1 PE1451 Mountain/Road Bike Fusion PE1119 Conditioning 1 PE1480 Water Safety Instructor PE1120 Beginning Alpine Skiing (Downhill) 1 PE2010 Varsity Football PE1121 Beginning Snowboarding 1 PE2020 Varsity Basketball PE1124 Intermediate Alpine Skiing (Downhill) 1 PE2040 Varsity Nordic Skiing PE1124 Intermediate Alpine Skiing (Downhill) 1 PE2050 Varsity Nordic Skiing	PE1000	Fitness Foundations	1	PE1250		1
PE1028 Ski Patrol (Hill) 1 PE1270 Cardio TaeKwonDo 7 PE1101 Team Sports 1 PE1277 Strategies of Laser Tag 7 PE1102 Hockey 1 PE1330 Club Sports 7 PE1103 Bait and Fly Casting 1 PE1342 Intro to Kickboxing 8 PE1105 Bowling 1 PE1367 Mindful Yoga 9 PE1106 Golf 1 PE1425 Intramurals 7 PE1108 Broomball 1 PE1430 Club Sports Leadership 9 PE1109 Aikido 1 PE1435 Self-Defense for Women 9 PE1113 Disc Sports 1 PE1436 Self-Defense for Men 9 PE1115 Beginning Swimming 1 PE1442 Kickboxing II 9 PE1116 Intermediate Swimming 1 PE1442 Kickboxing II 9 PE1117 Fitness Swimming 1 PE1451 Mountain/Road Bike Fusion 9 PE1118 Weight/Fitness Training 1 PE1470 Lifeguard Swimming 9 PE1119 Conditioning 1 PE1480 Water Safety Instructor 9 PE1120 Beginning Alpine Skiing (Downhill) 1 PE2010 Varsity Football 9 PE1121 Beginning Snowboarding 1 PE2030 Varsity Hockey 9 PE1124 Intermediate Alpine Skiing (Downhill) 1 PE2040 Varsity Nordic Skiing 9 PE1125 Intermediate Snowboarding 1 PE2050 Varsity Soccer 9	PE1010	Active Michigan Tech	1	PE1267	Intermediate Yoga	1
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PE1102 Hockey PE1103 Bait and Fly Casting PE1105 Bowling PE1106 Golf PE1106 Golf PE1107 Aikido PE1109 Aikido PE1113 Disc Sports PE1113 Disc Sports PE1115 Beginning Swimming PE1116 Intermediate Swimming PE1117 Fitness Swimming PE1118 Weight/Fitness Training PE1118 Weight/Fitness Training PE1119 Conditioning PE1110 Beginning Alpine Skiing (Downhill) PE1121 Beginning Snowboarding PE1122 Intermediate Alpine Skiing (Downhill) PE1123 Intermediate Alpine Skiing (Downhill) PE1124 Intermediate Snowboarding PE1125 Intermediate Snowboarding PE1125 Intermediate Snowboarding PE2050 Varsity Soccer	PE1101		1	PE1277	Strategies of Laser Tag	1
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PE1115 Beginning Swimming PE1116 Intermediate Swimming PE1117 Fitness Swimming PE1118 Weight/Fitness Training PE1119 Conditioning PE1120 Beginning Alpine Skiing (Downhill) PE1121 Beginning Snowboarding PE1123 Telemark Skiing PE1124 Intermediate Alpine Skiing (Downhill) PE1125 Intermediate Snowboarding 1 PE1440 Kickboxing II PE1450 Physical Education Fusion – Full PE1450 Physical Education Fusion – Full PE1451 Mountain/Road Bike Fusion PE1451 Mountain/Road Bike Fusion PE1450 Water Safety Instructor PE1480 Water Safety Instructor PE1480 Varsity Football PE2010 Varsity Basketball PE2020 Varsity Basketball PE2030 Varsity Hockey PE1124 Intermediate Alpine Skiing (Downhill) PE2040 Varsity Nordic Skiing PE1050 Varsity Soccer	PE1109	Aikido	1	PE1435	Self-Defense for Women	1
PE1116 Intermediate Swimming PE1117 Fitness Swimming PE1118 Weight/Fitness Training PE1119 Conditioning PE1120 Beginning Alpine Skiing (Downhill) PE1121 Beginning Snowboarding PE1123 Telemark Skiing PE1124 Intermediate Alpine Skiing (Downhill) PE1125 Intermediate Snowboarding 1 PE1450 Physical Education Fusion – Full PE1451 Mountain/Road Bike Fusion PE1451 Mountain/Road Bike Fusion PE1450 Water Safety Instructor PE1480 Water Safety Instructor PE2010 Varsity Football PE2020 Varsity Basketball PE2030 Varsity Hockey PE1124 Intermediate Alpine Skiing (Downhill) PE2040 Varsity Nordic Skiing PE1125 Intermediate Snowboarding PE2050 Varsity Soccer	PE1113	Disc Sports	1	PE1436	Self-Defense for Men	1
PE1116 Intermediate Swimming PE1117 Fitness Swimming PE1118 Weight/Fitness Training PE1119 Conditioning PE1110 Beginning Alpine Skiing (Downhill) PE1121 Beginning Snowboarding PE1123 Telemark Skiing PE1124 Intermediate Snowboarding PE1125 Intermediate Snowboarding PE1126 PE1127 PE1480 Physical Education Fusion – Full PE1480 Mountain/Road Bike Fusion PE1480 Water Safety Instructor PE1480 Water Safety Instructor PE1480 Varsity Football PE2010 Varsity Football PE2020 Varsity Basketball PE2030 Varsity Hockey PE1124 Intermediate Alpine Skiing (Downhill) PE2040 Varsity Nordic Skiing PE1050 Varsity Soccer	PE1115	Beginning Swimming	1	PE1442	Kickboxing II	1
PE1117 Fitness Swimming 1 PE1451 Mountain/Road Bike Fusion PE1118 Weight/Fitness Training 1 PE1470 Lifeguard Swimming PE1119 Conditioning 1 PE1480 Water Safety Instructor PE1120 Beginning Alpine Skiing (Downhill) 1 PE2010 Varsity Football PE1121 Beginning Snowboarding 1 PE2020 Varsity Basketball PE1123 Telemark Skiing 1 PE2030 Varsity Hockey PE1124 Intermediate Alpine Skiing (Downhill) 1 PE2040 Varsity Nordic Skiing PE1125 Intermediate Snowboarding 1 PE2050 Varsity Soccer	PE1116	Intermediate Swimming	1	PE1450	Physical Education Fusion – Full	1
PE1118 Weight/Fitness Training 1 PE1470 Lifeguard Swimming 7 PE1119 Conditioning 1 PE1480 Water Safety Instructor 7 PE1120 Beginning Alpine Skiing (Downhill) 1 PE2010 Varsity Football 7 PE1121 Beginning Snowboarding 1 PE2020 Varsity Basketball 7 PE1123 Telemark Skiing 1 PE2030 Varsity Hockey 7 PE1124 Intermediate Alpine Skiing (Downhill) 1 PE2040 Varsity Nordic Skiing 7 PE1125 Intermediate Snowboarding 1 PE2050 Varsity Soccer 7	PE1117		1	PE1451		1
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PE1125 Intermediate Snowboarding 1 PE2050 Varsity Soccer			1			1
			1			1
	PE1126		1	PE2080		1



Activities for Well-Being and Success continued

PE2130	Varsity Volleyball	1
PE2140	Varsity Cross Country	1
PE2150	Cross Training	1
PE2160	Varsity Esports	1
PE2210	Special Topics in Physical Education	1
PSY1100	Building Emotional Resilience	1
PSY1101	Enhanced Performance through Biofeedback/MSPE	1
PSY1102	Practical Approaches for Emotional Regulation	1
PSY1103	Mindfulness Based Stress Reduction (MBSR)	1
PSY1104	Motivation through Self-Compassion	1
PSY1105	Foundations of Well-being	1
SA1000	Exploring Majors	1
SND1570	Private Mixing Lessons	.5
SND2663	Career Development	1
SND2664	Career Development: AES National	1
SND2665	Career Development: AES Student Summit	1
THEA2600	Acting Practicum	1
THEA2610	Entertainment Tech Practicum	var
THEA2663	Career Development	1
THEA3650	Portfolio Development	1
UN1000	Frameworks for Success for ExSEL	1
UN1010	Creating Your Success for Themed Communities	1
UN1011	Strategies for Success	1
UN1020	Husky Connect Success	1
UN3023	Advanced Portfolio for Essential Ed	1
All	0-level courses taken for the General Education	
	Cocurricular requirement	

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Shaelyn Koleber, EEN '22

WATER RESOURCES EIT, STANTEX

As a water resources EIT, Shaelyn is involved with many projects related to water. This includes water quality, combined sewer overflows, stormwater management, groundwater remediation, etc.

Her main responsibility is to conduct flow monitoring studies in sanitary sewers to detect storm water inflow and infiltration with specific flow analysis techniques.

FUN FACT: Shaelyn was onsite as a first responder in East Palestine, OH to conduct groundwater sampling following the 2023 train derailment, as a part of the ongoing remediation efforts. She notes that students are always welcome to reach out to her or connect on LinkedIn.

Essential Education Experience (3)

ART3190	Art, Nature, and Contemplative Photography	đ
ART3900	Study Away: Regional Arts Immersion	vai
ART3950	International Arts Immersion	vai
ENG4070	Peer Mentoring Practicum	3
FW3114	Reading the Forest	3
FW3760	Human Dimensions in Natural Resources Stewardship	3
HON4070	Leadership Practicum	vai
HU3000	Humanities Experience: Community-engaged learning	3
HU3289	HU Experience: German Abroad	3
HU3298	Experience Spanish Language & Culture thru Teaching	
HU3299	Exploring a Hispanic City by Analyzing its Film Production	on 3
HU3370	The Documentary Experience	3
HU3621	HU Experience in Journalism	3
HU3703	HU Experience in Environmental Philosophy	
HU3810	HU Experience in Technology & Critical Making	3
HU4041	HU Experience in Communication for Sustainabilit	y 3
S3002	International Studies in situ - Social & Behavioral Science	vai
MUS3700	Visual and Performing Arts Tour	vai
SS3090	UPERSS	vai
SS3210	Field Archaeology	vai
SS3541	The Copper Country	3
SS3626	STEM Policy Lab at MTU	3
SS3760	Human Dimensions in Natural Resources Stewardship	3
SS3913	Sustainable Living Practicum	vai
SS3915	Experiencing Museums	3
SS3960	Cultural Immersion	vai
SS4050	Advanced GIS Methods	3
SS4530	Deindustrialization and the Urban Environment	3 3 3
SS4551	Industrial Communities	3
SS4700	Communities and Research	3
SS4915	Effective Social Action	3
SS4920	Internship Experience	vai
SS4921	Washington Experience Seminar	vai
SS4922	Washington Experience Topics	vai
THEA4190	Directing for Theatre	3
JN3013	Interdisciplinary Experience	var

APPROVED TRANSFER COURSES

The following courses are available ONLY by transfer.

Math

MA1XXX Approved Transfer Math

Natural and Physical Science

BL1XXX	Approved Natural & Physical Science
BL2XXX	Approved Natural & Physical Science
BLL1XXX	Approved Natural & Physical Science
BLL2XXX	Approved Natural & Physical Science
CH1XXX	Approved Natural & Physical Science
CH2XXX	Approved Natural & Physical Science
CHL1XXX	Approved Natural & Physical Science
CHL2XXX	Approved Natural & Physical Science
FW1XXX	Approved Natural & Physical Science
FW2XXX	Approved Natural & Physical Science
FWL1XXX	Approved Natural & Physical Science
FWL2XXX	Approved Natural & Physical Science
GE1XXX	Approved Natural & Physical Science
GE2XXX	Approved Natural & Physical Science
GEL1XXX	Approved Natural & Physical Science
GEL2XXX	Approved Natural & Physical Science
KIP1XXX	Approved Natural & Physical Science
KIP2XXX	Approved Natural & Physical Science
KIPL1XXX	Approved Natural & Physical Science
KIPL2XXX	Approved Natural & Physical Science
PH1XXX	Approved Natural & Physical Science
PH2XXX	Approved Natural & Physical Science
PHL1XXX	Approved Natural & Physical Science
PHL2XXX	Approved Natural & Physical Science
SCI1XXX	Approved Natural & Physical Science
SCI2XXX	Approved Natural & Physical Science
SCIL1XXX	Approved Natural & Physical Science
SCIL2XXX	Approved Natural & Physical Science

STEM

All Math and Natural and Physical Science approved transfer courses listed previously

Communication Intensive

HU1XX5	Approved Transfer Communication Intensive
HU2XX5	Approved Transfer Communication Intensive
HU3XX5	Approved Transfer Communication Intensive
HU4XX5	Approved Transfer Communication Intensive
CMIN1XXX	Approved Transfer Communication Intensive
CMIN2XXX	Approved Transfer Communication Intensive
CMIN3XXX	Approved Transfer Communication Intensive
CMIN4XXX	Approved Transfer Communication Intensive

Intercultural Competency

INCU3XXX Approved Transfer Intercultural Competency INCU4XXX Approved Transfer Intercultural Competency

Arts and Culture

ARCU1XXX Approved Transfer Arts and Culture ARCU2XXX Approved Transfer Arts and Culture ARCU3XXX Approved Transfer Arts and Culture ARCU4XXX Approved Transfer Arts and Culture

SHAPE

ART1XXX	Approved SHAPE elective
ART2XXX	Approved SHAPE elective
ART3XXX	Approved SHAPE elective
ART4XXX	Approved SHAPE elective
EC1XXX	Approved SHAPE elective
EC2XXX	Approved SHAPE elective
EC3XXX	Approved SHAPE elective
EC4XXX	Approved SHAPE elective
HF1XXX	Approved SHAPE elective
HF2XXX	Approved SHAPE elective
HF3XXX	Approved SHAPE elective
HF4XXX	Approved SHAPE elective
HU1XXX	Approved SHAPE elective
HU2XXX	Approved SHAPE elective
HU3XXX	Approved SHAPE elective
HU4XXX	Approved SHAPE elective
<i>MUS1XXX</i>	Approved SHAPE elective
<i>MUS2XXX</i>	Approved SHAPE elective
<i>MUS3XXX</i>	Approved SHAPE elective
MUS4XXX	Approved SHAPE elective
PSY1XXX	Approved SHAPE elective
PSY2XXX	Approved SHAPE elective
PSY3XXX	Approved SHAPE elective
PSY4XXX	Approved SHAPE elective
SND1XXX	Approved SHAPE elective
SND2XXX	Approved SHAPE elective
SND3XXX	Approved SHAPE elective
SND4XXX	Approved SHAPE elective
SS1XXX	Approved SHAPE elective
SS2XXX	Approved SHAPE elective
SS3XXX	Approved SHAPE elective
SS4XXX	Approved SHAPE elective
THEA1XXX	Approved SHAPE elective
THEA2XXX	Approved SHAPE elective
THEA3XXX	Approved SHAPE elective
THEA4XXX	Approved SHAPE elective

Activities for Well-Being and Success

PE1XXX	Approved Activities elective
PE2XXX	Approved Activities elective
ACTV1XXX	Approved Activities elective
ACTV2XXX	Approved Activities elective



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- Enhances your employment opportunities—multinational corporations require graduation from an accredited program.
- Supports your entry to a technical profession through licensure, registration, and certification—all of which often require graduation from an ABET-accredited program as a minimum qualification.
- Establishes your eligibility for many federal student loans, grants, and/or scholarships.
- Paves the way for you to work globally, because ABET accreditation is recognized worldwide through international agreements, and many other countries' national accrediting systems are based on the ABET model.



Meet Shaelyn

