

Michigan Technological University Chemical Engineering



UNDERGRADUATE ADVISING

FOR CHEMICAL ENGINEERING STUDENTS STARTING AT MICHIGAN TECH DURING THE 2022-23 ACADEMIC YEAR

Catalog Year: 202208, 202301, and 202305

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ABET ACCREDITATION

Michigan Tech's chemical engineering program is accredited by the <u>Engineering Accreditation</u> <u>Commission of ABET</u>.

WHY IS ACCREDITATION IMPORTANT?

We are proud of our accreditation achievement because it demonstrates our commitment to providing you a quality engineering education. Accreditation requires a deliberate, continuous evaluation of our program to meet the ever-changing needs of society and industry.

PROGRAM CRITERIA

The chemical engineering curriculum will provide you with a thorough grounding in the basic sciences including chemistry and physics, with some content at an advanced level, as well as the engineering applications of these basic sciences in the design, analysis, and control of chemical and physical processes, including the hazards associated with them.

STUDENT OUTCOMES

Upon graduation you will have the ability to:

- 1. identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- 2. apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- 3. communicate effectively with a range of audiences.
- 4. recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- 5. function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- 6. develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- 7. acquire and apply new knowledge as needed, using appropriate learning strategies.

EDUCATIONAL OBJECTIVES

As a graduate of our program, we are preparing you to:

- 1. Be successful early and have sustained success in your professional career.
- 2. Be valued for your hands-on engineering ability and safety culture.
- 3. Effectively communicate your technical knowledge via publications, reports, the internet, and other media.
- 4. Be providing service to society.
- 5. Be earning advanced degrees or participating in continuing education.
- 6. Be achieving leadership positions in your chosen profession.

DEPARTMENT DIRECTORY



Pradeep AgrawalProfessor and
Department Chair



Aamir Bashir Postdoctoral Scholar



Erika Erkkila Administrative Aide



Jon HerlevichProfessor of Practice



Rehab (Ruby) Alhajjar Postdoctoral Scholar



Gerard Caneba Professor



Kyle GriffinAssistant Teaching
Professor



Pratik JoshiPostdoctoral Scholar



Sulihat Aloba Research Scientist



Jeana CollinsAssociate Teaching
Professor



Robert Handler Senior Research Engineer



Yixin Liu Assistant Professor



Joe AzzarelloAdjunct Instructor



Tim Eisele Associate Professor



Caryn Heldt Professor



Lynn Manchester Laboratory Technician



Adrienne Minerick Professor



Kristi PietiDepartment
Coordinator



David Shonnard Professor



Ruiting ZhanPostdoctoral Scholar



Michael Mullins Professor



Kurt Rickard, Adjunct Assistant Professor



Shelby StubenrauchOffice Assistant



Ali Zolghadr Research Assistant Professor



Rebecca Ong Associate Professor



Tony RogersAssociate Professor



Katie Torrey Academic Advisor



Lei Pan Associate Professor



John Sandell Associate Professor



Stefan Wisniewski Laboratory Manager

We're happy you're here!

ACADEMIC ADVISING SERVICES

We're here to support you in developing an individualized plan to progress towards your goals.

ACADEMIC ADVISOR

For help from a chemical engineering graduate with schedule planning and degree audits.



Katie Torrey

Katie's office is in the Chem Sci, room 310A (go inside room 310).

Phone: 906-487-4327

Email your advising questions to:

cmadvise@mtu.edu

PEER MENTORS

For help from current chemical engineering students with the college experience.



Madeline Johnson



Lina Espejo Ramirez



Riley Smith



Allison Swanson

CAREER ADVISORS

For help from faculty with career guidance and information on graduate school.



Pradeep Agrawal



Jon Herlevich



Rebecca Ong



John Sandell

WHAT WE'RE EXPECTING YOU TO DO:



Understand the degree requirements and learning goals.



Take responsibility for your academic planning.



Seek assistance from advisors, instructors, learning centers, and other university resources.



Be open to revising your plans as interests, circumstances, and opportunities evolve.



MEET WITH US!

Use your Google calendar to know what's going on. Add the following "other calendars" to it:

- ChE Advising Events
- AIChE Chapter
- Michigan Tech Academic Calendar

STOP BY DURING WALK-IN ADVISING

No appointments needed. Your academic advisor and peer mentors host walk-in advising during busy times like the **start of the semester** and during **registration weeks**. Times are posted on the ChE Advising Events calendar.

MAKE AN APPOINTMENT

Your academic advisor, peer mentors, and career advisors are available for one-on-one meetings. Use your Google calendar to set up a meeting. Meetings can be in-person or virtual. Whatever works best for you.

ATTEND A WORKSHOP

Your academic advisor and peer mentors will be hosting workshops throughout the semester. These are informal get-togethers where we sit down together and discuss a particular topic or answer any other questions you might have. Some topics we've covered in the past include: how Enterprise works, finding an undergraduate research mentor, what it's like to go on co-op, etc. These events will be posted on the ChE Advising Events calendar.



TIP! When faced with a difficult question or challenging situation, an advisor is always a good place to start.

ACADEMIC AND CAREER PLANNING CHECKLIST

Here's what we suggest you do to stay on track with graduation.

ORIENTATION WEEK AND BEFORE - PREPARING FOR YOUR FIRST SEMESTER

- □ **Review your transcript on <u>Banweb</u>**. Are all of your AP credits and transfer credits in place? Is anything missing? AP and transfer credits should be in place by mid-July for students starting in fall semester.
- ☐ **Review your class schedule.** You will finalize your schedule during Orientation week.
- ☐ **Meet your academic advisor.** You will have an opportunity to meet your academic advisor during Orientation week.
- \square Explore campus resources.
 - o Chemical Engineering advising webpage
 - o Registrar's Office
 - Undergraduate Catalog
 - o Dean of Students Office
 - Library
 - Center for Student Mental Health and Well-being

YEAR 1 - ADJUSTING TO COLLEGE LIFE

- Attend your department's first-year advising meeting. If you are unsure about your major, meet with:
 - o The <u>academic advisor for other majors</u> you are considering, or
 - o The general sciences/arts undeclared advisor, or
 - o The general/undecided engineering advisor, or
 - o A career advisor in Career Services.
- □ **Review your** <u>degree requirements</u>. Run your <u>interactive degree audit</u> each time you make changes to your schedule or register for classes.
- ☐ **Know your learning goals.** There are <u>major specific learning goals</u> and Michigan Tech <u>undergraduate student learning goals</u>.
- ☐ **Prepare for your first job search.** Visit <u>Career Services</u>, <u>create a resume</u>, and <u>attend</u> career fairs.
- ☐ **Explore and learn about career building opportunities.** Check out <u>internships and coops</u>, <u>undergraduate research</u>, <u>study away and abroad</u>, <u>minors</u>, <u>Enterprise program</u>, <u>honors program</u>.
- ☐ **Get involved on campus.** There are lots of different <u>campus activities and student organizations</u>. Try a mix of professional and social organizations.





YEAR 2 - CAREER EXPLORATION AND PERSONAL DEVELOPMENT

Plan out your future classes. Begin looking at electives and review your plan with your advisor.
Run your interactive degree audit. Do this each time you make changes to your schedule or register for classes.
Network. Talk to people who can help you explore your interests, strengths, and careers This includes instructors of your classes, faculty in your major, students in their junior and senior year in your major, and company recruiters, many of whom are Michigan Tech alumni.
Apply for co-ops and internships. Visit Career Services (again), update your resume, attend career fairs (again), and expand your job search by using <u>Handshake</u> , <u>LinkedIn</u> , and <u>reaching out</u> directly to companies or people you know.
Get involved in career building opportunities. Start participating in internships and coops, undergraduate research, study away and abroad, minors, Enterprise program, honors program.
Build your leadership skills. Take on a leadership role in the campus activities and student organizations in which you are involved.

YEAR 3 – CONTINUED CAREER EXPLORATION AND PERSONAL DEVELOPMENT

☐ Repeat all year 2 ac	ctivities.	Plus:
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- □ **Consider graduate school.** Talk to faculty in your major to learn more. If you will be going to graduate school at Michigan Tech, there are two programs that allow you to start earning graduate credit while still an undergraduate:
 - o <u>Accelerated Master's Program</u>
 - Senior Rule
- ☐ Challenge yourself to take on a larger leadership role within your favorite student organization. You'll learn a lot from these experiences and they can help you reach your career goals.
- □ Challenge yourself to write down three career goals. They may or may not be related to your major and it's ok if you are unsure because your goals might change with time. You just need to start somewhere! If you'd like help finding ways to work toward these goals then share with your academic advisor

FINAL YEAR - TRANSITIONING INTO CAREER OR GRADUATE SCHOOL

۱AL	TEAR - TRANSMONING INTO CAREER OR GRADUATE SCHOOL
	Apply for graduation . This is due by week 10 of the semester prior to your last semester.
	Finalize career and/or graduate school plans. Career Services usually holds a "senior
	meeting" to help you with this.
	Let us know what you'll be doing after graduation. Complete the First Destination survey
	on Handshake.
	Complete loan exit counseling for <u>Financial Aid</u> , if needed.
	Participate in department and university events to celebrate your graduation.
	Congratulations!!

TYPICAL MICHIGAN TECH SEMESTER

Academic events, such as adding and dropping classes, happen at certain times in the semester. Below is a general timeline of what to expect.

Week	Day	Event
week before classes start	Wednesday	Tuition bills and enrollment confirmation are due, late fee begins at close of business.
		First half of term (weeks 1-7)
Week 1	Friday	Last day to add full-semester course without instructor permission.
Week 2	Wednesday	Last day to add full-semester courses or change a section; and Financial aid full-time status established; and Last day to change majors or add minor effective for this semester.
Week 3	Friday	Last day to drop full-semester courses without a grade.
Week 4		
Week 5		
Week 6		
Week 7	Monday	Mid-term grades available on Banweb after close of business for first-year students only.
		Second half of term (weeks 8-14)
Week 8		
Week 9	all week	First week of the initial registration period for the following semester. Registration time is based on earned credits. During fall: register for spring and summer semesters. During spring: register for fall semester.
Week 10	all week	Second week of the initial registration period.
Week 10	Friday	Last day to drop full-semester courses with a 'W'
Week 11	all week	Third week of the initial registration period. Registration closes for everyone at the end of the week.
Week 12	Wednesday	Registration reopens and stays open until the next semester starts.
Week 13		
Week 14		
Finals Week		

Dates for adding/dropping/withdrawing from half-semester courses can be found on the academic calendar on the Registrar's Office webpage.



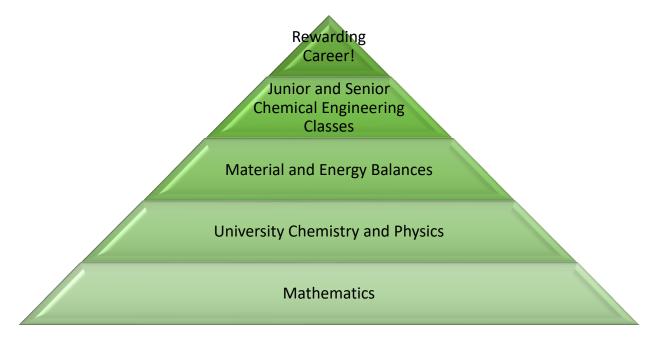
TIP! Add these events automatically to your Google calendar, by adding the "Michigan Tech Academic Calendar".

SUCCEEDING IN CHEMICAL ENGINEERING

Chemical engineering is known to be a rigorous and tough major across the country. So, what can you do to best prepare yourself to succeed?

Study to know!

Knowledge, problem-solving, and critical thinking skills gained in your early classes are vitally important to your continued success in the chemical engineering program and in your career.



If you receive a **CD or D** in any of these foundational classes, we strongly recommend that you retake the class BEFORE continuing on in the next class in the curriculum.

It can be really tempting to just "get through" a difficult class and celebrate the victory! However, it may take a while to grasp how all the pieces fit together. For chemical engineering students, that moment of realization is often in the junior year, which builds on all the math, physics, and chemical engineering fundamentals that you've put such effort into learning. So, when studying foundational subjects, remember you will see this information again and are working to prepare yourself for the junior and senior classes.

REPEATING CLASSES

If you retake a class, there is an important rule that you must consider:

The second grade <u>always</u> replaces the first.

For better or worse. And you may only take a class three times, and you need special permission for a third attempt. For the details, visit the <u>Registrar's Office webpage</u>.

Retaking classes you have previously passed may also impact your financial aid.
Contact the <u>Student Financial Services</u>
<u>Center</u> for an evaluation of your situation

Bookmark these pages because you'll be using them frequently.

ChE Advising webpage:



Registrar's Office webpage:



<u>Banweb</u> (your student records):



Point your phone's camera at the QR code. Click the link that appears.

Are all of your AP/dual enrollment/transfer credits in place?

You are the only person who can determine this and your schedule cannot be finalized without it.

Go to Banweb to check your Michigan Tech transcript and see if everything is there. Track down all of your classes, because many times these "extra" classes can be used as electives.

ONLINE DEGREE AUDITS

Go to Banweb to run your interactive online degree audit.

Run it every time you register for a class or change your schedule. Be sure to run the audit labeled "Latest" because this will use your correct catalog year. New students are able to start running their audit 30 days before the semester starts.

Sometimes audits need to be manually adjusted. Contact your advisor if something doesn't look right.

FUTURE SEMESTERS

Plan your future semesters based on your interests. To do this, most students do the following:

- Find the flowchart, 4- or 5-year sample schedule, or degree audit to use as a checklist. These are on the department's advising or Registrar's Office webpages.
- 2. Cross off requirements that are completed or inprogress. Write down elective courses next to the corresponding requirement to keep track of them.
- Run your online degree audit on Banweb to make sure classes are counting where you expect them to. If they are not, then contact your academic advisor to find out why.
- 4. Write down the classes you plan to take for each future semester. It usually makes the most sense to start with the major required classes, then minor classes if you are doing a minor, and finally remaining elective classes.



TIP! Remember that your plan is a draft and subject to change as you explore your interests.

PREREQUISITES FOR REQUIRED CHEMICAL ENGINEERING CLASSES

The table below shows which courses are required for your later chemical engineering courses. This information is critical for planning out future semesters.

Ye	ar Course	Title	Gen Ed Prereqs	Math Prereqs	Chemistry Prereqs	Physics Prereqs	ChE Prereqs
2	CM 2110	Material and Energy Balances		Calc I*	CH 1150 & CH 1151		
2	CM 3230	Thermodynamics for ChE		MA 2160		PH 2100	CM 2110
3	CM 3110	Transport & Unit Operations I		MA 3160 & Diff Eqns**		PH 2100	CM 2110
3	CM 3120	Transport & Unit Operations II					CM 3110 & CM 3230
3	CM 3215	ChE Fundamentals Lab	UN 1015				CM 3110 (C)
3	CM 3240	Separation Processes		MA 2160			CM 3230
3	CM 3310	Process Control		Diff Eqns**		PH 2200	CM 2110
3	CM 3510	Chemical Reaction Engineering		Diff Eqns**			CM 2110 & CM 3110 & CM 3230
4	CM 3980	Sustainable Chemical Engg		Diff Eqns**			CM 2110
4	CM 4110	Unit and Plant Operations Lab I					CM 3120 & CM 3215 & CM 3240 & CM 3310 & CM 3510
4	CM 4120	Unit and Plant Operations Lab II					CM 4110
4	CM 4320	Chemical Process Safety					CM 3120 & CM 3230 & CM 3510
4	CM 4855	Process Analysis & Design I			CH 2410		CM 3120 & CM 3215 & CM 3240 & CM 3510 & CM 3980 (C)
4	CM 4860	Process Analysis & Design II					CM 3980 & CM 4855
4	CM 4861	Capstone Design Project					CM 3980 & CM 4860 (C)

A "(C)" indicates a prerequisite that you can take concurrently, in the same semester.

^{*} For calc I prerequisites, any of the following courses are acceptable: MA 1160 or MA 1161 or MA 1121.

^{**}For differential equations prerequisites, any of the following courses are acceptable: MA 3520 or MA 3521 or MA 3530 or MA 3560.

DEGREE REQUIREMENTS

The degree requirements are organized in the following categories:

CHEMICAL ENGINEERING MAJOR REQUIREMENTS: 104 CREDITS

- Required engineering courses: 47 credits
- Required math and science courses: 40 credits
- Technical electives: 17 credits
 - o These are engineering, math, science, or applied business classes that you get to choose.
 - CM 1000 Introduction to Chemical Engineering is a technical elective. This course is optional.

GENERAL EDUCATION CORE REQUIREMENTS: 12 CREDITS

- UN 1015 Compositions: 3 credits
- UN 1025 Global Issues or a 3000-level or higher modern language course: 3 credits
- Critical and Creative Thinking course: 3 credits
- Social Responsibility and Ethical Reasoning course: 3 credits

GENERAL EDUCATION HASS REQUIREMENTS: 12 CREDITS

- Communication and Composition HASS course: 3 credits
- Humanities and Fine Arts HASS course: 3 credits
- Social and Behavioral Science HASS course: 3 credits
- An additional course from a HASS list above or the Restricted HASS list: 3 credits

Of the HASS courses taken above, at least 6 credits must be at the 3000-level or higher.

We suggest EC 3400 Economic Design Analysis prior or during fall senior year because it helps with process design senior year. It is a 3000-level Social and Behavioral Science HASS course.

GENERAL EDUCATION CO-CURRICULAR REQUIREMENTS: 3 UNITS

Units are like credits but are not counted in your GPA or total credits for the degree.

These are active courses, primarily in physical education, ROTC physical conditioning, and music performance.

FREE ELECTIVE REQUIREMENT: 3 CREDITS

Free electives are any course 1000-level or higher that are not co-curricular courses.

total credits for graduation: 131 credits + 3 units of co-curricular

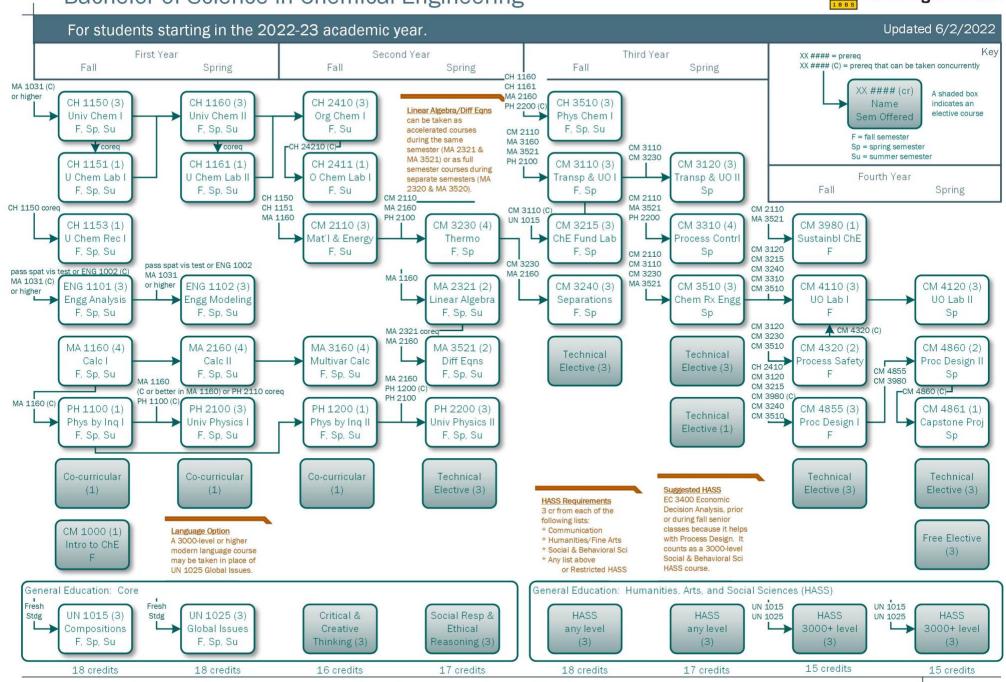


IMPORTANT! The Registrar's Office maintains the official list of requirements for graduation.

Lists, sample schedules, and flowcharts in this book and on the department webpage are not official lists of degree requirements and are provided for your convenience.

Bachelor of Science in Chemical Engineering





FOUR-YEAR SAMPLE SCHEDULE

This is a suggested schedule for students starting in calculus.

FIRST YEA	A R				
Course	Title	Credits	Course	Title	Credits
CH 1150	University Chemistry I	3	CH 1160	University Chemistry II	3
CH 1151	U Chem Lab I	1	CH 1161	U Chem Lab II	1
CH 1153	U Chem Recitation I	1	ENG 1102	Engg Modeling & Design	3
CM 1000	Intro to Chemical Engg*	1	MA 2160	Calculus w/Technology II	4
ENG 1101	Engg Analysis & Probl	3	PH 2100	University Physics I	3
MA 1160	Calculus w/Technology I	4	UN 1025	Global Issues (or lang)	3
PH 1100	Physics by Inquiry I	1		Co-curricular*	1
UN 1015	Compositions	3		Total Spring Credits	18
	Co-curricular*	1		2	
-	Total Fall Credits	18			

SECOND	YEAR				
Course	Title	Credits	Course	Title	Credits
CH 2410	Organic Chemistry I	3	CM 3230	Thermodynamics for ChE	4
CH 2411	Organic Chemistry Lab I	1	MA 2321	Elem Linear Algebra	2
CM 2110	Material & Energy Bal	3	MA 3521	Elem Differential Eqns	2
MA 3160	Multivariable Calc	4	PH 2200	University Physics II	3
PH 1200	Physics by Inquiry II	1		Technical Elective*	3
	Core Critical & Creat*	3		Core Social Resp*	3
	Co-curricular*	1		Total Spring Credits	17
	Total Fall Credits	16			

THIRD YEAR								
Course	Title	Credits		Course	Title	Credits		
CH 3510	Physical Chemistry I	3		CM 3120	Transport & Unit Ops II	3		
CM 3110	Transport & Unit Ops I	3		CM 3310	Process Control	4		
CM 3215	ChE Fundamentals Lab	3		CM 3510	Chemical Reaction Engg	3		
CM 3240	Separation Processes	3			Technical Elective*	3		
	Technical Elective*	3			Technical Elective*	1		
	HASS Course, any level*	3			HASS Course, any level*	3		
	Total Fall Credits	18			Total Spring Credits	17		

FOURTH YEAR								
Course	Title	Credits		Course	Title	Credits		
CM 3980	Sustainable ChE	1	,	CM 4120	Unit & Plant Ops Lab II	3		
CM 4110	Unit & Plant Ops Lab I	3		CM 4860	Process Design II	2		
CM 4320	Chemical Process Safety	2		CM 4861	Capstone Design Project	1		
CM 4855	Process Design I	3			Technical Elective*	3		
	Technical Elective*	3			HASS Course, 3000+ level*	3		
	HASS Course, 3000+ level*	3			Free Elective*	3		
	Total Fall Credits	15			Total Spring Credits	15		

^{*}Starred courses are electives, and so you have some degree of choice with them.

FIVE-YEAR SAMPLE SCHEDULE

This is a suggested schedule for students starting in precalculus.

FIRST YEAR							
Course	Title	Credits	Course	Title	Credits		
CH 1150	University Chemistry I	3	CH 1160	University Chemistry II	3		
CH 1151	U Chem Lab I	1	CH 1161	U Chem Lab II	1		
CH 1153	U Chem Recitation I	1	CH 1163	U Chem Rec II (recom)	1		
CM 1000	Intro to Chemical Engg*	1	ENG 1102	Engg Modeling & Design	3		
ENG 1101	Engg Analysis & Probl	3	MA 1161	Calculus Plus w/Tech I	5		
MA 1032	Precalculus	4	UN 1025	Global Issues (or lang)	3		
UN 1015	Compositions	3		Co-Curricular*	1		
	Co-Curricular*	1		Total Spring Credits	17		
	Total Fall Credits	17					

SECOND YEAR							
Course	Title	Credits		Course	Title	Credits	
CH 2410	Organic Chemistry I	3		MA 3160	Multivariable Calc	4	
CH 2411	Organic Chemistry Lab I	1		PH 1200	Physics by Inquiry II	1	
MA 2160	Calculus w/Technology II	4		PH 2200	University Physics II	3	
PH 1100	Physics by Inquiry I	1			Technical Elective*	3	
PH 2100	University Physics I	3			Core Social Resp*	3	
	Core Critical & Creat*	3			Total Spring Credits	14	
	Co-Curricular*	1			, -		
	Total Fall Credits	16					

THIRD YE	AR				
Course	Title	Credits	Course	Title	Credits
CH 3510	Physical Chemistry I	3	CM 3230	Thermodynamics for ChE	4
CM 2110	Material & Energy Bal	3	CM 3110	Transport & Unit Ops I	3
MA 2321	Elem Linear Algebra	2		Technical Elective*	3
MA 3521	Elem Differential Eqns	2		HASS Course, any level*	3
	HASS Course, any level*	3		Total Spring Credits	13
	Total Fall Credits	12			

FOURTH '	YEAR					
Course	Title	Credits		Course	Title	Credits
CM 3215	ChE Fundamentals Lab	3	,	CM 3120	Transport & Unit Ops II	3
CM 3240	Separation Processes	3		CM 3310	Process Control	4
	Technical Elective*	3		CM 3510	Chemical Reaction Engg	3
	HASS Course, 3000+ level*	3			Technical Elective*	1
	Total Fall Credits	12			HASS Course, 3000+ level*	3
			,		Total Spring Credits	14

FIFTH YEA	\R				
Course	Title	Credits	Course	Title	Credits
CM 3980	Sustainable ChE	1	CM 4120	Unit & Plant Ops Lab II	3
CM 4110	Unit & Plant Ops Lab I	3	CM 4860	Process Design II	2
CM 4310	Chemical Process Safety	2	CM 4861	Capstone Design Project	1
CM 4855	Process Design I	3		Technical Elective*	3
	Technical Elective*	3		Optional extra course	3
	Total Fall Credits	12		Total Spring Credits	12

^{*}Starred courses are electives, and so you have some degree of choice with them

TECHNICAL ELECTIVES

You must take a minimum of 17 credits of technical electives from the list below.

- Plan ahead. Some electives are offered once every other year and most have prerequisites.
- Additional engineering, math, science or applied business courses are allowed by approval.
- Courses on the general education HASS lists are not approved for technical electives.

TECHNICAL ELECTIVE LIST

Minimum of 17 credits required: Statistical Methods for Biomed BE 2110 3 Cellular and Molecular Biology 3 BE 2400 BE 4300 Polymeric Biomaterials 3 BL 1100 Gen Bio I: Intro to Organismal Bio 3 or BL 1200 Gen Bio II: Intro to Cellular Biology 3 Principles of Biology or BL 1400 BL 1110 Gen Bio I Lab: Intro to Ora Bio Gen Bio II Lab: Intro to Cellular Bio 1 or BL 1210 or BL 1410 Principles of Biology Lab BI 2010 Anatomy & Physiology I 3 BI 2011 Anatomy & Physiology I Lab 1 BL 2020 Anatomy & Physiology II 3 Anatomy & Physiology II Lab BL 2021 BL 2200 Genetics 3 Genetics Laboratory BL 2210 BL 3020 Biochemistry I 3 BL 3210 General Microbiology BL 3310 **Environmental Microbiology** 3 BL 3490 Principles of Ecology & Evolution General Immunology BL 3640 3 BL 3820 Biochem Lab Techniques I BL 4020 Biochemistry II BL 4030 Molecular Biology 3 BL 4380 Cardiopulmonary Physiology BL 4840 Molecular Biology Techniques 3 **CEE 3502** Envir Monitoring and Meas Analysis 3 **CEE 3503 Environmental Engineering** 3 CEE 4501 **Envir Eng Chemical Processes** 4 Wastewater Treatment 3 **CEE 4502 CEE 4503 Drinking Water Treatment** 3 **CEE 4504** Air Quality Engineering & Science 3 **CEE 4505** Surface Water Quality Engineering 3 Quantitative Analysis CH 2212 5 CH 2420 Organic Chemistry II 3 Organic Chemistry Lab II 2 CH 2421 2 CH 3511 Physical Chemistry Lab I CH 3520 Physical Chem II - Mol Structure 3 CH 3521 Physical Chemistry Lab II 2 CH 4110 Medicinal Chem: Drug Action 3 CH 4120 Medicinal Chem: Drug Design 3 CH 4140 Intro to Pharmaceutical Analysis 3 CH 4212 Instrumental Analysis 5 CH 4222 **Bioanalytical Chemistry** 5 CH 4310 Inorganic Chemistry I 3 CH 4311 Inorganic Chemistry Lab 2 CH 4320 Inorganic Chemistry II 3 CH 4412 Spectroscopy of Organic Chem 3 CH 4430 Intermediate Organic Chemistry 3 CH 4710 Biomolecular Chemistry I 3 Biomolecular Chemistry II CH 4720 3 CM 1000 Intro to Chemical Engineering

Intro Minerals and Materials

3

CM 2200

TECHNIC	AL ELECTIVE LIST CONTINUED	
CM 3025	Bioprocessing Lab	1
CM 3450	Computer-Aided Problem Solving	3
CM 3825	Sampling, Stats, and Instrumen	2
CM 3830	Mineral Processing Lab	1
	79 Alternative Energy Tech	1
CM 3XXE		ar
CM 4505	Particle Technology	3
CM 4510	Interfacial Engineering	3
	10 Intro to Polymer Science	3
	20 Polymer Chemistry	3 3 3 3
CM 4650	Polymer Rheology	3
CM 4710	Biochemical Processes	3
	740 Hydrometallurgy/Pyrometallurgy	4
CM 4780	Biomanufacturing and Biosafety	3
CM 4XXE		ar
CM 5100	Applied Mathematics for CM	3
CM 5100	Advanced CM Thermodynamics	3
CM 5300	Advanced Transport Phenomena	3
CM 5400	Advanced Reactive Systems	3
CN 3400 CS 1111	Intro to Programming in C/C++	3
CS 1111		3
CS 1121	Intro to Programming I Accelerated Intro to Program	5
EE 2174		4
	Digital Logic and Lab	
EE 2230	Printed Circuit Seminar Series	3
EE 2231	Printed Circuit Fabrication	1
EE 3010	Circuits and Instrumentation	3
EE 3120	Electric Energy Systems	3
EE 3140	Electromagnetics	3
EET 3373	Intro to Programmable Controllers	
ENG 2120	Statics-Strength of Materials	4
	4300 Project Management	3
ENG 4515	Intro to Sustainability & Resilience	3
ENG 4525	Systems Analysis for Sustain & Res	3
ENT 2950	Enterprise Project Work I]
ENT 2960	Enterprise Project Work II	1
ENT 3950	Enterprise Project Work III	1
ENT 3953	Ignite: Ideate, Innovate, Create!	1
ENT 3954	Enterprise Market Principles	1
ENT 3958	Ethics in Engg Design & Implem	1
ENT 3959	Fundamentals of Six Sigma I	1
ENT 3960	Enterprise Project Work IV	1
ENT 3961	Building & Leading Teams	. 1
ENT 3963	Deliver: Explore, Develop, Execute	! 1
ENT 3964	Funds of Project Management	1
ENT 3966	Design for Manufacturing	1
ENT 3967	Design for Six Sigma	1
ENT 3971	Seven Habits of Highly Effective	1
ENT 3980	Pre-Capstone Ent Project Work	1
ENT 3982	Contin Improv Using Lean	1
ENT 3983	Culture of Continuous Improve	1
ENT 4950	Ent Project Work V Capstone	2
ENT 4960	Ent Project Work VI Capstone	2
ENT 4961	Enterprise Project Work VII	1

TECHNIC/	AL ELECTIVE LIST CONTINUED		TECHNIC/	AL ELECTIVE LIST CONTINUED	
FW 1035	Wood Anatomy and Properties	3	MEEM 4650	Quality Engineering	3
FW 3098	Adding Value to Forest Biomats	2		Finite Elem and Var Meth in Engg	3
GE 2020	Intro to Mining Eng and Methods	2		Comp Fluid Dynamics for Engg	3
GE 2300	Mineral Science	3	MIS 2100	Intro to Business Programming	3
GE 2310	Introduction to Petrology	3	MSE 2100	Intro to Materials Sci and Engg	3
GE 2640	Atmos Observations Meteorology	3	MSE 2110	Intro to Materials Sci and Engg II	3
GE 3400	Drilling and Blasting	3	MSE 3100	Materials Processing I	4
GE 4360	Bulk Materials Dynamics & Engg	4	MSE 3120	Materials Characterization I	4
GE 4610	Formation Eval & Petroleum Engg	3	MSE 4110	Introduction to Polymer Engg	3
MA 2600	Scientific Computing	3	MSE 4310	Principles of Metal Casting	3
MA 3210	Introduction to Combinatorics	3	MSE 4320	Corrosion & Environmental Effects	3
MA 3310	Introduction to Abstract Algebra	3	MSE 4325	Fundamentals of Corrosion	1
MA 3450	Introduction to Real Analysis	3	MSE 4430	Composite Materials	3
MA 3710	Engineering Statistics	3	OSM 4650	Six Sigma Fundamentals	3
or MA 2710	Introduction to Statistical Analysis	3	PH 2230	Electronics for Scientists	4
or MA 2720	Statistical Methods	4	PH 2300	Univ Physics III – Fluids and Thermo	2
or MA 3715	Biostatistics	3	PH 2400	Univ Physics IV – Waves & Mod Phy	<i>/</i> 3
MA 3740	Statistical Programming & Analysis	3	UN 2600	Fund of Nanoscale Sci and Eng	2
MA 3924	College Geometry with Tech	3	UN 3002		1-2
MA 4330	Linear Algebra	3	UN 3003		1-2
MA 4515	Intro to Partial Differential Eqns	3	UN 3004	Undergrad Cooperative Ed III	1-2
MA 4525	Applied Vector and Tensor Math	3	UN 3005	Undergrad Cooperative Ed IV	1-2
MA 4620	Numerical Methods for PDEs	3			
MA 4760	Mathematical Statistics I	3	Undergradu	uate Research - optional	
MA 4770	Mathematical Statistics II	3	Courses are	repeatable.	
MA 4908	Theory of Numbers with Tech	3	No more the	an 6 credits from the following:	
MEEM 2110	Statics	3	CM 4000		1-3
	Mechanics of Materials	3	CM 4020		1-3
MEEM 2700		3	CM 4040		1-3
MEEM 4170	Failure of Materials in Mechanics	3	CM 4060		1-3
	Principles of Energy Conversion	3	CM 4080	UG Research in Biofuels Engg	1-3
	Internal Combustion Engines I	3			
	Combustion and Air Pollution	3		redits from other departments	
	Fuel Cell Technology	3	•	approval, subject to the same limits	
	Intro to the Finite Element Method	3		than 6 credits of research total, and	k
MEEM 4635	Design with Plastics	3	no more the	an 3 credits earned per semester.	

NEED HELP CHOOSING ELECTIVES? WHAT INTERESTS YOU?

Don't know: Try...CH 2420, CM 3450, CS 1121, EE 3010, MA 3710, MEEM 2110, MSE 2100, UN 3002, undergraduate research, or any of the CM electives. These are useful for all ChE's to take.

Polymers & Plastics: Try...CH 2420, CH 4620, CM 4060 (research), CM 4610, CM 4620, or CM 4650. Also, check out the minor in Polymer Science and Engineering.

Mineral processing: Try... CM 2200, CM 3830, CM 3820, CM 4505, CM 4740, or GE 2300. Also, check out the minor in Mineral Processing.

Biochemical Engineering: Try...BL 1200 or BL 1400 and labs, BL 3020, CM 3025, CM 4040 (research), CM 4080 (research), or CM 4710. Also, check out the minor in Bioprocess Engineering

Energy: Try...CM 3979, CM 4080 (research), EE 3010, GE 4610, MEEM 4620, or AEE Enterprise. Also, check out the minors in Alternative Energy Technology or Bioprocess Engineering or Sustainable Biomaterials.

Pharmaceuticals: Try...CH 2420, CH 4710, CH 4110, CH 4120, or CH 4140. Also, check out the minors in Pharmaceutical Chemistry or Bioprocess Engineering.

Data Analytics: Try... CS 1121, MA 3710, or MA 3740. Also, check out the minor in Statistics.

Going to Graduate School: Try...MA 3710, MA 4515, any undergraduate research, and electives in a topic area that interests you. Also, check out the minors in Mathematics or Statistics.

GENERAL EDUCATION CORE COURSES

You must take 12 credits of core courses meeting these requirements:

- Three credits from UN 1015 Compositions
- Three credits from UN 1025 Global Issues or 3000-level or higher modern language course
- Three credits from the Critical and Creative Thinking list
- Three credits from the Social Responsibility and Ethical Reasoning list

Courses on more than one list can only satisfy one requirement.

The official list of approved core courses is on the Registrar's Office, General Education webpage.

CRITICAL AND CREATIVE THINKING LIST

Minimum of 3 credits required: ART 1000 Art Appreciation 3 HU 2130 Introduction to Rhetoric 3 HU 2324 Introduction to Film HU 2501 American Experience in Literature 3 HU 2503 Introduction to Literature HU 2538 British Experience in Literature HU 2700 Introduction to Philosophy HU 2820 Communication and Culture 3 HU 2910 Language and Mind MUS 1000 Music Appreciation 3 SND 1000 Sound in Art and Science 3 Environment and Society SS 2300 THEA 1000 Theatre Appreciation Critical & Creative Thinking core var TA2XX4 (transfer agreement credit only)

SOCIAL RESPONSIBILITY AND ETHICAL REASONING LIST

Minimum 3	credits required:	
EC 2001	Principles of Economics	3
PSY 2000	Introduction to Psychology	3
SS 2100	Intro to Cultural Anthropology	3
SS 2200	Introduction to Archaeology	3
SS 2400	Intro to Human Geography	3
SS 2500	United States History to 1877	3
SS 2501	US History Since 1877	3
SS 2502	European History to 1650	3
SS 2503	European History Since 1650	3
SS 2504	World History to 1500	3
SS 2505	World History Since 1500	3
SS 2600	American Government & Politics	3
SS 2610	Introduction to Law and Society	3
SS 2700	Introduction to Sociology	3
TA 2XX8	Social Resp & Ethical Reas core	var
	(transfer agreement credit only)	



GENERAL EDUCATION HASS COURSES

You must take a minimum of 12 credits in HASS courses meeting these requirements:

- Three credits from the Communication and Composition list
- Three credits from the Humanities and Fine Arts list
- Three credits from the Social and Behavioral Science list
- Three credits from any list above or the Restricted HASS list
- Of the credits taken above, at least 6 credits must be taken at the 3000-level or higher.

All 3000-level or higher, non-language HASS courses have prerequisites of UN1015 and (UN1025 or modern language – 3000 level or higher).

HU 2291

Courses on more than one list can only satisfy one requirement.

The official list of approved HASS courses is on the Registrar's Office, General Education webpage.

COMMUNICATION AND COMPOSITION HASS LIST

Minimum of 3	3 credits required:	
HU 2810 F	Research & Writing in Commun	3
HU 2830 F	Public Speaking & Multimedia	3
HU 3015	Advanced Composition	3
HU 3120 T	Technical and Professional Comm	3
HU 3130 F	Rhetoric of Science and Tech	3
HU 3151 T	The Rhetoric of Everyday Texts	3
HU 3606 E	Editing	3
HU 3621 I	ntroduction to Journalism	3
HU 3693	Science Writing	3
HU 3694 (Grant Writing	3
HU 3832	Advanced Digital Presentation	3
HU 4625 F	Risk Communication	3
TA 1XX5	Communication Elective v	ar
TA 3XX5	(transfer agreement credit only) Communication Elective v (transfer agreement credit only)	ar

HUMANITIES AND FINE ARTS HASS

Minimum of	3 credits required:	
ART 1000	Art Appreciation	3
ART 1100	Drawing I	3
ART 1110	Art + Design Studio	3
ART 2110	Outdoor Sculpture	3
ART 2130	Creative Drawing Processes	3
ART 2140	Ceramics I	3
ART 2145	Beginning Wheel Throwing	3
ART 2160	Creative Practices	3
ART 2190	Art & Nature	3 3 3
ART 2201	Art History I	3
ART 2202	Art History II	
ART 3140	Creative Ceramics	3
ART 3410	Contemporary Sculpture Studio	3
ART 3420	Traditional Sculpture Studio	3
HU 2130	Introduction to Rhetoric	3
HU 2241	Level I-A Less Common Lang v	ar
	(transfer or study abroad credit or	ıly)
HU 2242	3	ar
	(transfer or study abroad credit or	ıly)
HU 2271	Level I-A French Lang & Culture	3
HU 2272	Level I-B French Lang & Culture	3
HU 2273	Transitional Level I French Lang	3
HU 2281	Level I-A German Lana & Culture	3

HUMANITIES & FINE ARTS LIST CONTINUED HU 2282 Level I-B German Lang & Culture 3

Level I-A Spanish Lang & Culture 3

HU 2292	Level I-B Spanish Lang & Culture 3
HU 2293	
HU 2324	Introduction to Film 3
HU 2500	Ways of Reading 3
HU 2501	American Experience in Literature 3
HU 2503	Introduction to Literature 3
HU 2505	Humanities, Science & Technology 3
HU 2510	Intro to Creative Writing 3
HU 2538	British Experience in Literature 3
HU 2548	Young Adult Literature 3
HU 2633	Fundamentals of Digital Imaging 3
HU 2645	Graphic & Information Design 3
HU 2700	Introduction to Philosophy 3
HU 2702	Ethical Theory and Moral Problems 3
HU 2810	Research & Writing in Comm 3
HU 2820	Communication and Culture 3
HU 2830	Public Speaking & Multimedia 3
HU 2840	Interpersonal Communication 3
HU 2910	Language and Mind 3
HU 2920	Language and Society 3
HU 3015	Advanced Composition 3
HU 3120	Technical and Professional Comm 3
HU 3130	Rhetoric of Science and Tech 3
HU 3150	Topics in Literacy Studies 3
HU 3151	The Rhetoric of Everyday Texts 3
HU 3241	Level II-A Less Common Lang var
	(transfer or study abroad credit only)
HU 3242	Level II-B Less Common Lang var
	(transfer or study abroad credit only)
HU 3261	Communicating Across Cultures 3
HU 3262	Topics in Francophone Cultures 3
HU 3263	Topics in German-Speaking Cultur 3
HU 3264	Topics in Spanish-Speaking Culture 3
HU 3271	Level II-A French Lang & Culture 3
HU 3272	Level II-B French Lang & Culture 3
HU 3274	Level III French Literature & Culture 3
HU 3275	French for Special Purposes 3
HU 3280	Level I-C German Lang & Culture 3
HU 3281	Level II-A German Lang & Culture 3
HU 3282	Level II-B German Lang & Culture 3
HU 3283	Level II German for Special Purp 3
HU 3284	Level III German Lit & Culture 3
HU 3285	Level III German Film & Media 3
HU 3291	Level II-A Spanish Lang & Culture 3
HU 3292	Level II-B Spanish Lang & Culture 3

HUMANIT	IES & FINE ARTS LIST CONTINUE	ED	HUMANIT	IES & FINE ARTS LIST CONTIN	UED
HU 3293	Level II-C Spanish Comp & Conv	3	HU 4701	Political Philosophy	3
HU 3294	Hispanic Literatures and Culture	3	HU 4725	Existentialism and Phenomenolo	
HU 3295	Level III Advanced Spanish for Lit	3	HU 4890	Topics in Communication	3
HU 3296	Intro to Hispanic Lit & Cultures	3	MUS 1000	Music Appreciation	3
		3		History of Classical Music	3
HU 3326	Topics in World Cinema		MUS 2000	•	
HU 3327	Film Style and Genre	3	MUS 2001	Film Music	3
HU 3400	Topics in Diversity Studies	3	MUS 2020	History of Rock	3
HU 3401	Gender and Culture	3	MUS 2030	History of Jazz	3
HU 3410	Introduction to Diversity Studies	3	MUS 2040	Music & Tradition	3
HU 3502	Mythology	3	MUS 3020	Beatles & Beach Boys	3
HU 3503	Special Topics in Lit & Culture	3	MUS 3200	Contemporary Music	3
HU 3504	Studies in the Novel	3	SND 1000	Sound in Art & Science	3
HU 3505	Literary Forms, Genres, and Modes		THEA 1000	Theatre Appreciation	3
HU 3506	Major Authors	3	THEA 1400	Beginning Acting	3
HU 3507	Cultural Traditions in Literature	3	THEA 3201	Theatre History I	3
	Literature and the Environment	3	THEA 3201	•	3
HU 3508				Theatre History II	3
HU 3513	Shakespeare	3	THEA 3230	Costume History	
HU 3514	Workshop Creative Nonfiction	3	THEA 3330	Costume Design	3
HU 3515	Workshop in Poetry	3	THEA 3400	Advanced Acting	3
HU 3516	Workshop in Fiction	3	THEA 3490	Puppetry	3
HU 3517	Literary Theory and Criticism	3	THEA 4402	Musical Theatre Performance	
HU 3518	Workshop in Sci Fi Writing	3	IS 2001	Int'l Studies in situ - HU/FA	var
HU 3519	Workshop in Nature Writing	3		(study abroad credit only)	
HU 3545	Literature across Borders	3	IS 3001	Int'l Studies in situ - HU/FA	
HU 3554	Science Fiction	3	10 0001	(study abroad credit only)	var
HU 3557	Literature and Science	3		(stody dorodd crodii chily)	v Gi
HU 3606	Editing	3			
		3	000141	AND DELLANGODAL COLEN	О Г
HU 3621	Introduction to Journalism	3	SOCIAL.	and behavioral scien	CE
HU 3693	Science Writing	3	HASS LIS	Т	
HU 3694	Grant Writing	3	117 (00 210	•	
HU 3700	Philosophy of Science	3		f 3 credits required:	
HU 3701	Philosophy of Technology	3	Minimum of EC 2001	f 3 credits required: Principles of Economics	3
HU 3701 HU 3702	Philosophy of Technology Philosophy of Religion	3			3
HU 3701	Philosophy of Technology	3 3 3	EC 2001	Principles of Economics	3
HU 3701 HU 3702	Philosophy of Technology Philosophy of Religion	3 3 3 3	EC 2001 EC 3002 EC 3003	Principles of Economics Microeconomic Theory	3
HU 3701 HU 3702 HU 3703 HU 3710	Philosophy of Technology Philosophy of Religion Environmental Philosophy Engineering Ethics	3 3 3 3	EC 2001 EC 3002 EC 3003 EC 3100	Principles of Economics Microeconomic Theory Macroeconomic Theory International Economics	3 3 3
HU 3701 HU 3702 HU 3703 HU 3710 HU 3711	Philosophy of Technology Philosophy of Religion Environmental Philosophy Engineering Ethics Biomedical Ethics	3 3 3 3 3	EC 2001 EC 3002 EC 3003 EC 3100 EC 3300	Principles of Economics Microeconomic Theory Macroeconomic Theory International Economics Industrial Organization	3 3 3 3
HU 3701 HU 3702 HU 3703 HU 3710 HU 3711 HU 3800	Philosophy of Technology Philosophy of Religion Environmental Philosophy Engineering Ethics Biomedical Ethics Media and Society	3 3 3 3 3 3	EC 2001 EC 3002 EC 3003 EC 3100 EC 3300 EC 3400	Principles of Economics Microeconomic Theory Macroeconomic Theory International Economics Industrial Organization Economic Decision Analysis	3 3 3 3
HU 3701 HU 3702 HU 3703 HU 3710 HU 3711 HU 3800 HU 3802	Philosophy of Technology Philosophy of Religion Environmental Philosophy Engineering Ethics Biomedical Ethics Media and Society Media and Globalization	3 3 3 3 3 3 3	EC 2001 EC 3002 EC 3003 EC 3100 EC 3300 EC 3400 EC 4050	Principles of Economics Microeconomic Theory Macroeconomic Theory International Economics Industrial Organization Economic Decision Analysis Game Theory/Strategic Behav	3 3 3 3 3
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SOCIAL 8	& BEHAVIORAL LIST CONTINUEI	D
PSY 3070	Cross-Cultural Psychology	3
PSY 3340	Psychology of Race	3
PSY 3720	Social Psychology	3
PSY 3880	Psychology of Social Media	3
PSY 4080	Topics in Psychology	3
PSY 4340	Culture & Cognition	3
SS 2100	Intro to Cultural Anthropology	3
SS 2200	Introduction to Archaeology	3
SS 2210	Evolution of Cities	3
SS 2300	Environment and Society	3
SS 2400	Intro to Human Geography	3
SS 2450	Intro to Sustainable Tourism	3
SS 2500	United States History to 1877	3
SS 2501	United States History since 1877	3
SS 2502	European History to 1650	3
SS 2503	European History since 1650	3
SS 2504	World History to 1500	3
SS 2505	World History since 1500	3
SS 2510	Gender and the Past	3
SS 2600	American Government & Politics	3
SS 2610	Introduction to Law and Society	3
SS 2625	Intro to American Foreign Policy	3
SS 2635	Comparative Politics	3
SS 2700	Introduction to Sociology	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
SS 2750	Racial Inequality	3
SS 3105	Native Amer & Indig Communities	3
SS 3110	Food Systems and Sustainability	3
SS 3200	Archaeology of the Modern World	13
SS 3210	0,	'ar
SS 3225	Capitalism and the Modern World	
SS 3230	Archaeology of Industry	3
SS 3240	Reading the Landscape	3
SS 3250	Biological Anthropology	3
SS 3260	Latin American Cultural History	3
SS 3270	Archaeology of the African Dias	
SS 3280	Anthropology of Energy	3 3 3 3
SS 3313	Sustainability Science	3
SS 3315	Population and Environment	3
SS 3400	Contemporary Europe	3
SS 3420	Imaginary Worlds: Geog of Sci Fi	
SS 3505	Military History of the U.S.	3
SS 3510	History of American Technology	3
SS 3511	History of Science in America	3
SS 3513	History of Making Things: Craft	3
SS 3515	History of American Architecture	3
SS 3520	U.S. Environmental History	3
SS 3530	The Automobile in America	ა ი
SS 3535	History of Privacy	ა ი
SS 3540	History of Michigan	ა ი
SS 3541	The Copper Country	J 2
SS 3542	History of Detroit	ა 2
SS 3552 SS 3553	Renaissance & Reformation	3
ss 3553 SS 3560	Empires in World History	3
SS 3560	History of England I	ئ 2
	History of Canada	ر د
SS 3570	History of Canada Technology & Western Civilization	ر د
SS 3580 SS 3581	Technology & Western Civilization History of Science	ئ 2
	History of Science	ر د
SS 3600 SS 3612	American Foreign Policy International Relations	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
SS 3621	Public Policy & Management	3
SS 3630	Environmental Policy & Politics	3

SOCIAL &	BEHAVIORAL LIST CONTINUED	
SS 3636	Perceptions of Modern State & 3	
SS 3640	Selected Topics in Cyber-Law 3	
SS 3650	Intellectual Property Management 3	
SS 3660	Constitutional Law 3	
SS 3661	Civil Rights & Civil Liberties 3	
SS 3665	Crime, Incarceration, and Policy 3	
SS 3755	Sustainability & the Private Sector 3	
SS 3760	Human Dimensions/NR Stew 3	
SS 3800	Energy Policy and Technology 3	
SS 3801	Science, Technology, & Society 3	
SS 3805	Environmental Justice 3	
SS 3811	Energy Security and Justice 3	
SS 3815	Energy and Society 3	
SS 3910	Histories and Cultures 3	
SS 3920	Topics in Anthropology/Archaeo 3	
SS 3950	Topics in American History 3	
SS 3951	Topics in European History 3	
SS 3952	Topics in World History 3	
SS 3960	Cultural Immersion var	
SS 3961	Prep for Cross-Cultural Immersion 3	
SS 3990	Topics in the Social Science 3	
SS 4001	History of Social Thought 3 Sustainable Development 3	
SS 4120	Sustainable Development 3	
SS 4200	Environmental Anthropology 3	
SS 4220	Archaeological Thought in Society 3	
SS 4390	Seminar in Sustainability 3	
SS 4450	Sustainable Tourism & Planning 3	
SS 4530	Deindustrialization & the Urban Env 3	
SS 4700	Communities and Research 3	
SS 4710	Geographies of Migrant & Nat 3	
SS 4921	Washington Experience Seminar var	

RESTRICTED HASS LIST

Optional - N	No more than 3 credits maximum:	
BL 2001	Valuing the Great Lakes	3
BL 3970	Current Health Issues	3
ENT 2961	Teaming in the Enterprise	2
ENT 2962	Communication Contexts	1
FIN 2400	Financial Literacy	3
FW 2081	Intro to Circular Economy	3
FW 3113	Alberta: Place, People, History	3
FW 3116	Ethnobotany	3
FW 3765	Maple Syrup Management &	1
FW 4111	Indigenous Natural Resources	3
GE 2100	Environmental Geology	3
HON 3150	Pavlis Seminar II	1
HON 3410	Culture, Language, & Project	3
HON 4150	Pavlis Seminar III	1
KIP 2600	Introduction to Public Health	2
MA 4945	History of Mathematics	3

APPROVED TRANSFER COURSES COMMUNICATION AND COMPOSITION HASS LIST

The following courses are available ONLY by transfer:

HU 1XX5	Approved Transfer HASS Comm	3
HU 2XX5	Approved Transfer HASS Comm	3
HU 3XX5	Approved Transfer HASS Comm	3
HU 4XX5	Approved Transfer HASS Comm	3

APPROVED TRANSFER COURSES HUMANITIES AND FINE ARTS HASS LIST

The following courses are available ONLY by transfer:

transfer:		
ART 1XXX	Approved Transfer HASS Elective	3
ART 2XXX	Approved Transfer HASS Elective	3
ART 3XXX	Approved Transfer HASS Elective	3
ART 4XXX	Approved Transfer HASS Elective	3
HU 1XXX	Approved Transfer HASS Elective	3
HU 2XXX	Approved Transfer HASS Elective	3
HU 3XXX	Approved Transfer HASS Elective	3
HU 4XXX	Approved Transfer HASS Elective	3
HU 1XX5	Approved Transfer HASS Comm	3
HU 2XX5	Approved Transfer HASS Comm	3
HU 3XX5	Approved Transfer HASS Comm	3
HU 4XX5	Approved Transfer HASS Comm	3
MUS 1XXX	Approved Transfer HAAS Elective	3
MUS 2XXX	Approved Transfer HAAS Elective	3
MUS 3XXX	Approved Transfer HAAS Elective	3
MUS 4XXX	Approved Transfer HAAS Elective	3
SND 1XXX	Approved Transfer HAAS Elective	3
SND 2XXX	Approved Transfer HAAS Elective	3
SND 3XXX	Approved Transfer HAAS Elective	3
SND 4XXX	Approved Transfer HAAS Elective	3
THEA 1XXX	Approved Transfer HAAS Elective	3
THEA 2XXX	Approved Transfer HAAS Elective	3
THEA 3XXX	Approved Transfer HAAS Elective	3
THEA 4XXX	Approved Transfer HAAS Elective	3

APPROVED TRANSFER COURSES SOCIAL AND BEHAVIORAL SCIENCES HASS LIST

The following courses are available ONLY by transfer:

EC 1XXX	Approved Transfer HASS Elective	3
EC 2XXX	Approved Transfer HASS Elective	3
EC 3XXX	Approved Transfer HASS Elective	3
EC 4XXX	Approved Transfer HASS Elective	3
PSY 1XXX	Approved Transfer HASS Elective	3
PSY 2XXX	Approved Transfer HASS Elective	3
PSY 3XXX	Approved Transfer HASS Elective	3
PSY 4XXX	Approved Transfer HASS Elective	3
SS 1XXX	Approved Transfer HASS Elective	3
SS 2XXX	Approved Transfer HASS Elective	3
SS 3XXX	Approved Transfer HASS Elective	3
SS 4XXX	Approved Transfer HASS Elective	3



GENERAL EDUCACATION CO-CURRICULAR COURSES

You must take 3 units of co-curricular courses.

Co-curricular units:

- Count toward full-time status and satisfactory progress for financial aid purposes
- Appear on the transcript with a Pass/Fail grade
- Are not included in the GPA calculation
- Are not included in the total credits required for a degree
- Do not count towards the 12 credits of gradable courses required for recognition on the dean's list or other university honors.

Repeatability for general education:

- 0.5 unit co-curricular courses may be repeated once for the general education co-curricular requirement.
- 1 unit co-curricular courses may not be repeated for the general education co-curricular requirement.

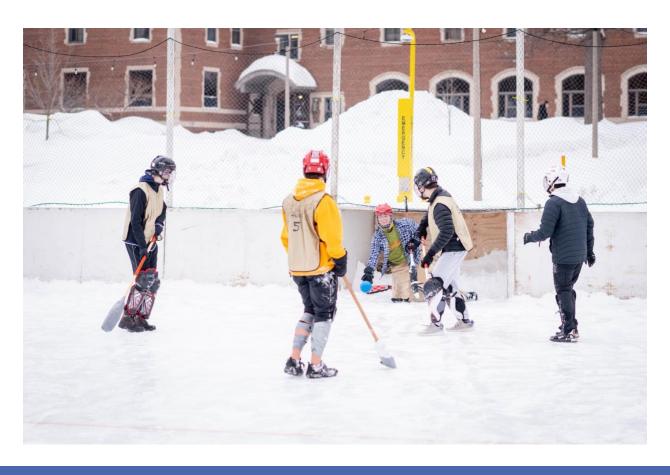
The official list of approved co-curricular courses is on the Registrar's Office, General Education webpage.

Minimum of 3 units required:	CO-CURI	RICULAR LIST		C	D-CURR	ICULAR LIST CONTINUED	
AF 0120 Physical Conditioning 0.5 PE 0148 Beginning Skating 0.5 AF 0300 Air Force Eitle Forces Workout 1 PE 0150 Outdoor Lifetime Activities 0.5 AF 0330 Precision Drill Team 0.5 PE 0151 Indoor Lifetime Activities 0.5 AF 0340 Field Training 1 PE 0152 Social Dance 1 0.5 Indoor Lifetime Activities 0.5 AF 0340 Field Training in Adv Military Lead 3 PE 0153 Acrobics 1 0.5 AR 2048 Fall Military Physical Conditioning 1 PE 0155 Beginning Road Biking 0.5 AR 2049 Spring Military Physical Cond 1 PE 0155 Beginning Road Biking 0.5 AR 3048 Physical Training Leadership 1 PE 0165 Introduction to Rowing 0.5 AR 3049 Physical Training Leadership 1 PE 0165 Moving for Fitness 0.5 MUS 1510 Campus Concert Band 1 PE 0164 Moving for Fitness 0.5 PE 0175 Fit	Minimum of	3 units required:		PE	0146	Beginning Billiards	0.5
AF 0130			0.5	PE	0148	Beginning Skating	0.5
AF 0230 Precision Drill Team 0.5 PE0151 Indoor Lifetime Activities 0.5 AF 0340 Field Training 1 PE0152 Social Dance I 0.5 AR 0340 Internship in Adv Military Lead 3 PE0153 Aerobics I 0.5 AR 2068 Fall Military Physical Cond 1 PE0155 Beginning Mountain Biking 0.5 AR 3068 Physical Training Leadership I 1 PE0165 Beginning Mountain Biking 0.5 AR 3069 Physical Training Leadership II 1 PE0166 Moving for Fithess 0.5 HUSL 1510 Huskies Pep Band 1 PE0167 Moving for Fithess 0.5 HUS 1511 Campus Concert Band 1 PE0167 Moving for Fithess 0.5 PE 0103 Boit and Fly Casting 0.5 PE0170 TaeKwonDo and Hapkido I 0.5 PE 0103 Boit and Fly Casting 0.5 PE0177 Fundamentals of Laser Tag 0.5 PE 0105 Beginning Bowling I 0.5 PE 02026 Intermediate Golf						Outdoor Lifetime Activities	
AF 0340	AF 0230		0.5	PE	0151	Indoor Lifetime Activities	
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	PE 0142		0.5				
	PE 0145	Beginning Rifle	0.5	PE	0256	Intermediate Mountain Biking	0.5

CO-CURF	RICULAR LIST CONTINUED		CO-CUR	RICULAR LIST CONTINUED	
PE 0266	Running for Fitness	0.5	PE 1220	Introduction to Canoeing	1
PE 0267	Intermediate Yoga	0.5	PE 1225	Indoor Rock Climbing	1
PE 0270	Cardio TaeKwonDo	0.5	PE 1230	Introduction to Kayaking	1
PE 0277	Strategies of Laser Tag	0.5	PE 1235	Introduction to Log Rolling	1
PE 0315	Fitness Swimming	0.5	PE 1240	Snowshoeing	1
PE 0320	Advanced Skiing	0.5	PE 1245	Wilderness First Responder	1
PE 0321	Advanced Snowboarding	0.5	PE 1435	Self-Defense for Women	1
PE 0330	Club Sports	0.5	PE 1436	Self-Defense for Men	1
PE 0367	Mindful Yoga	0.5	PE 1450	Physical Education Fusion – Full	1
PE 0420	Ski Instructor Training	0.5	PE 1470	Lifeguard Swimming	1
PE 0421	Snowboard Instructor Training	0.5	PE 2010	Varsity Football	1
PE 0425	Intramurals	0.5	PE 2020	Varsity Basketball	1
PE 0430	Club Sports Leadership	0.5	PE 2030	Varsity Hockey	1
PE 0451	Mountain/Road Bike Fusion	0.5	PE 2040	Varsity Nordic Skiing	1
PE 0520	Alpine Skiing Fusion	0.5	PE 2050	Varsity Soccer	1
PE 0521	Snowboard Fusion	0.5	PE 2080	Varsity Track	1
PE 1000	Fitness Foundations	1	PE 2090	Varsity Tennis	1
PE 1010	Active Michigan Tech	1	PE 2130	Varsity Volleyball	1
PE 1028	Ski Patrol (Hill)	1	PE 2140	Varsity Cross Country	1
PE 1101	Team Sports	1	PE 2150	Cross Training	1
PE 1105	Bowling	1	PE 2160	Varsity Esports	1
PE 1106	Golf	1	PSY 1100	Skills for Health & Resilience	1
PE 1113	Disc Sports	1			
PE 1118	Weight/Fitness Training	1			
PE 1119	Conditioning	1	APPRO\	VED TRANSFER COURSES	
PE 1138	Racquet Sports	1	CO CIII	RRICULAR LIST	
PE 1140	Tennis	1	CO-C01	KKICULAK LIST	
PE 1169	Indoor Cycling	1	The followi	ing courses are available ONLY by	
PE 1170	TaeKwonDo	1	transfer:		
PE 1210	Special Topics	1	PE 0XXX	Co-Curricular Activities	(

Special Topics Intro to Backcountry Travel

PE 1215



PE 0XXX PE 1XXX

Co-Curricular Activities Co-Curricular Activities

0.5

ACADEMIC PLANNING WORKSHEET

Fall		Spring		Summer			
Course	Credits	Course	Credits	Course	Credits		
Total Cred	dits:	Total Cre	edits:	Total Credits:			
Fall		Spring		Summer	Summer		
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Total Credits:		Total Cre	edits:	Total Credits:			
Fall		Spring		Summer			
Course	Credits	Course	Credits	Course	Credits		
Total Credits:		Total Cre	adita:	Total Credits:			



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Please feel free to contact us. We look forward to hearing from you!

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Michigan Tech is a leading public research university, home to more than 7,000 students from 60 countries around the world. Founded in 1885, the University offers more than 120 undergraduate and graduate degree programs in science, technology, engineering, and mathematics. Our beautiful campus in Michigan's Upper Peninsula overlooks the Keweenaw Waterway and is just a few miles from Lake Superior.



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