The Engineering Advising Center (EAC) welcomes you to the University of Michigan College of Engineering (CoE). This First-Year Student Handbook presents information on subjects of immediate concern to you as a new student in the College. Please read all of the Handbook carefully and keep it in a place where it will be readily available as a reference.
Contents

2  #UmichEngin19
3  Greetings from the Associate Dean
4  First-Year Overview
5  Academic Calendar
6 - 7  Engineering Advising Center: Information & Staff
8  College of Engineering Honor Code
8  College of Engineering Bulletin
9  Tips for First-Year Students from EAC Peer Advisors
10  Engineering Core Courses
11 - 12  General Electives & Intellectual Breadth
13  Foreign Languages
14  Transfer Credit
15  Advanced Placement, International Baccalaureate & A-Level Credit
16  Course Registration Information
17 - 19  College-Approved Minors
20  College of Engineering Specialized Study Programs
21  Career Exploration & Campus Involvement
22  Engineering Career Resource Center
23 - 27  Academic & Student Services Resources
28  Personal Safety
29 - 30  Campus Maps & Bus Stops
31  Time Management Schedule
32  Notes
#UmichEngin19

Get ready for one HAIL of a ride!

Walking robots, hackathons, solar cars and 3D labs… to name a few. By now you know that amazing things happen on North Campus. Stay up-to-date on everything happening, and be part of the conversation.

Facebook: Michigan.Engineering
Twitter: UMengineering
Instagram: MichiganEngineering

Ask questions and share the cool, inspiring and unexpected stuff you see during your first semester! Please tag your pics, tweets and updates with #UmichEngin19—your official class hashtag.
Dear First-Year Engineering Student:

Welcome to the University of Michigan’s College of Engineering! You are starting this journey at a time in which the world needs you—and the engineer you will become—more than ever. We are faced with increasingly challenging problems that are global in scope, in areas that include the environment, energy, transportation, and health care. Making progress in these areas requires the exceptional technical knowledge and skill that Michigan engineers bring, but to fulfill the promise of leadership, you must go well beyond this. You will need to develop an innovative and creative spirit and an entrepreneurial mindset, designing solutions that exhibit environmental and social responsibility. You will need to collaborate and communicate across many disciplines, working with people from diverse cultures across the globe. To prepare yourself, you must take advantage of the resources of the whole University of Michigan. Move beyond engineering; learn a language; discover through psychology how humans think, react to their environment, and are motivated; explore creativity through the arts; dive into the history and culture of another region of the globe; discover how public policy impacts the world; study abroad to challenge your conceptions of the world.

Over 1200 other engineering students, each unique and in some way exceptional, are starting their educational careers with you. They are a great resource, as are the other students, faculty, and staff already here. Your success in engineering will be enhanced by your interactions with those around you. Our engineering faculty are here at Michigan because they love what they do. Be sure to take full advantage of these amazing people!

Remember also that while your engineering education will begin in class, you must engage with the broader university and the world around you to truly develop your creative potential. You must awaken your passions not only through your studies, but also through the many co-curricular activities that enrich our community: take on an internship, pursue your entrepreneurial aspiration, engage in our multidisciplinary design program, or engage globally around the world.

While here at Michigan you will be challenged, you will experience emotional highs and lows, and you will be asked to do things that at first blush appear to be impossible. Much to your surprise—but not to ours—you will discover that they are not only possible, but a ton of fun as well! Welcome to Michigan, and Go Blue!

Brian D. Noble
Associate Dean for Undergraduate Education
Professor of Electrical Engineering & Computer Science
First-Year Overview

**Summer**
- Apply for Design Immersion
- Register for fall term
- Read Common Reading Experience book
- Complete Pre-Orientation Checklist
- Attend Orientation
- Activate ENGenius. Jobs account and create profile
- Create Maize Pages account

**Fall Term**
- Attend CoE Welcome Day
- Attend Career Fair #1 (meet with ECRC for Resume Review prior to this)
- Begin exploring engineering majors and minors (EAC & Program Advisors)
- Attend EAC Majors Fair
- Attend Career Fair #2
- Attend IPE’s Study Abroad Fair
- Attend EAC Majors Fair
- Attend Career Fair #2
- Attend Design Expo
- Explore potential research opportunities
- Meet with EAC Advisor
- Meet with ECRC
- Re-apply for financial aid and continue scholarship search
- Register for spring/summer and fall terms
- Attend Design Expo

**Winter Term**
- Visit IPE to discuss global opportunities
- Register for winter term
- Attend Design Expo
- Attend CoE Welcome Day
- Become familiar with academic resources and student services (i.e., attend Northfest, join study group, office hours, ELC)
- Attend Career Fair #1 (meet with ECRC for Resume Review prior to this)
- Attend Career Fair #2
- Finalize housing for next year
- Plan for summer (classes, internship, study abroad, etc.)
- Meet with academic advisor
- Meet with academic advisor
- Confirm selection of a major
- Attend Design Expo

**Key**
- Classes Begin
- Classes End
- Landmark
- Measurement

**Upcoming Events**
- Welcome Day - September 11
- SWE/TBP Career Fair - September 28-29
- IPE Study Abroad Fair - January
- EAC Majors Fair - TBD
- ECRC Career Fair - January 27-28
- FAFSA Deadline - April

Please refer to pages 23-27 for a list of academic and student resources to help guide you through your first year on campus.

Adapted from the GVSU Blueprint for Student Success.
# Academic Calendar

## Fall Term 2015

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration (for students not pre-registered)</td>
<td>Sept 4</td>
</tr>
<tr>
<td>Labor Day (holiday)</td>
<td>Sept 7</td>
</tr>
<tr>
<td>Classes Begin</td>
<td>Sept 8</td>
</tr>
<tr>
<td>Drop/Add Dates (without “W”)</td>
<td>Sept 8 - 28</td>
</tr>
<tr>
<td>Online Registration Ends</td>
<td>Sept 28</td>
</tr>
<tr>
<td>Drop/Add Dates (with “W” + Advisor’s + Instructor’s approval)</td>
<td>Sept 29 - Nov 13</td>
</tr>
<tr>
<td>Fall Study Break</td>
<td>Oct 19 - 20</td>
</tr>
<tr>
<td>Pass/Fail Election Deadline</td>
<td>Nov 13</td>
</tr>
<tr>
<td>Drop/Add Dates (with “W” + Instructor’s signature, Advisor’s + SSC approval)</td>
<td>Nov 14 - beyond</td>
</tr>
<tr>
<td>Thanksgiving Recess (5 pm)</td>
<td>Nov 25</td>
</tr>
<tr>
<td>Classes Resume (8 am)</td>
<td>Nov 30</td>
</tr>
<tr>
<td>Classes End</td>
<td>Dec 14</td>
</tr>
<tr>
<td>Study Day</td>
<td>Dec 15</td>
</tr>
<tr>
<td>Examinations</td>
<td>Dec 16 - 18, 21 - 23</td>
</tr>
<tr>
<td>Commencement</td>
<td>Dec 20</td>
</tr>
</tbody>
</table>

## Winter Term 2016

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration (for students not pre-registered)</td>
<td>Jan 5</td>
</tr>
<tr>
<td>Classes Begin</td>
<td>Jan 6</td>
</tr>
<tr>
<td>Drop/Add Dates (without “W”)</td>
<td>Jan 6 - 26</td>
</tr>
<tr>
<td>Online Registration Ends</td>
<td>Jan 26</td>
</tr>
<tr>
<td>Martin Luther King, Jr. Birthday (University Symposia, No Regular Classes)</td>
<td>Jan 18</td>
</tr>
<tr>
<td>Drop/Add Dates (with “W” + Advisor’s + Instructor’s approval)</td>
<td>Jan 27 - Mar 11</td>
</tr>
<tr>
<td>Spring Break Begins (noon)</td>
<td>Feb 27</td>
</tr>
<tr>
<td>Classes Resume (8 am)</td>
<td>Mar 7</td>
</tr>
<tr>
<td>University Honors Convocation</td>
<td>Mar 20</td>
</tr>
<tr>
<td>Pass/Fail Election Deadline</td>
<td>Mar 11</td>
</tr>
<tr>
<td>Drop/Add Dates (with “W” + Instructor’s signature, Advisor’s + SSC approval)</td>
<td>Mar 12 - beyond</td>
</tr>
<tr>
<td>Classes End</td>
<td>Apr 18</td>
</tr>
<tr>
<td>Study Days</td>
<td>Apr 19 &amp; Apr 22</td>
</tr>
<tr>
<td>Examinations</td>
<td>Apr 20 - 21, Apr 25 - 28</td>
</tr>
<tr>
<td>Commencement Activities</td>
<td>Apr 28 - May 1</td>
</tr>
</tbody>
</table>

Religious holidays for the 2015-2016 academic year can be found at [www.provost.umich.edu/calendar/religious_holidays.html](http://www.provost.umich.edu/calendar/religious_holidays.html). If you will miss class or assignments due to a religious holiday, notify your instructor in advance so that arrangements can be made.
Engineering Advising Center, Information

<table>
<thead>
<tr>
<th>Office</th>
<th>230 Chrysler Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>(734) 647-7106</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:eac_advising@umich.edu">eac_advising@umich.edu</a></td>
</tr>
<tr>
<td>Website</td>
<td>advising.engin.umich.edu</td>
</tr>
<tr>
<td>Office Hours</td>
<td>Open 8 am - noon &amp; 1 - 5 pm, Monday - Friday. Advising by appointment via EAC website.</td>
</tr>
<tr>
<td>Walk-in Advising</td>
<td>September 8-11 and January 6-8</td>
</tr>
<tr>
<td>Walk-in Wednesdays</td>
<td>Every Wednesday 1 - 4:30 pm throughout the semester. No appointment necessary.</td>
</tr>
</tbody>
</table>

**Key Dates**

<table>
<thead>
<tr>
<th></th>
<th>Fall Term</th>
<th>Winter Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add/Drop Deadline</td>
<td></td>
<td></td>
</tr>
<tr>
<td>without a “W”</td>
<td>September 28</td>
<td>January 26</td>
</tr>
<tr>
<td>Add/Drop Deadline</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with a “W”</td>
<td>November 13</td>
<td>March 11</td>
</tr>
<tr>
<td>Pass/Fail Deadline</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>November 13</td>
<td>March 11</td>
</tr>
<tr>
<td>Walk-in advising available</td>
<td>September 8 - 11</td>
<td>January 6 - 8</td>
</tr>
<tr>
<td>Advising appointments available online</td>
<td>September - December</td>
<td>January - April</td>
</tr>
<tr>
<td>Registration begins*</td>
<td>early December</td>
<td>early April</td>
</tr>
</tbody>
</table>

* For more detailed registration information, please visit [www.engin.umich.edu/college/academics/bulletin/rules/registration](http://www.engin.umich.edu/college/academics/bulletin/rules/registration)

**EAC Advising Mission**

The Engineering Advising Center supports first-year and undeclared students in their transition from high school to the rigorous academic demands of the College of Engineering through active engagement and encouragement towards a self-directed educational planning process. The Center fosters success by assisting students in the development of their identity, educational plans, career goals, and personal decision-making.

**EAC Resources**

- First-Year Student Handbook: [advising.engin.umich.edu/first-year-planning](http://advising.engin.umich.edu/first-year-planning)
- College of Engineering Bulletin: [www.engin.umich.edu/bulletin](http://www.engin.umich.edu/bulletin)
- EAC website: [advising.engin.umich.edu](http://advising.engin.umich.edu)
- EAC CT ools site: [www.ctools.umich.edu](http://www.ctools.umich.edu)

*Advisors and advisees have important roles in the advising process. This Handbook outlines responsibilities for both parties. We recommend you stay in regular contact with your advisor to ensure you meet your goals.*
Engineering Advising Center, Staff

Central Staff

Robert Freidhoff
Director
Engineering Advising Center
freidhro@umich.edu

Mark Collyer
Assistant Director
Peer Advisor Program Coordinator
collyerm@umich.edu

Kurt C. Hill
Senior Academic Advisor
kchill@umich.edu

Michelle Sonderman
Academic Advisor
Peer Mentor Program Coordinator
mlwhit@umich.edu

Peter Vasher
Academic Advisor
petevash@umich.edu

Kylee Clemens
Student Services Assistant
kyleec@umich.edu

Peer Advisors

Caressa Chan
Hannah Fetner
Heather Nowak

Colin Pitawanakwat
Haley Prout
Travis Smith

Steven Terryn
Ezinwo (Zinny) Weli
Katelyn Work

Zhan (Andersen) Zhang

Faculty Advisors

There are Engineering faculty advisors who meet with students in the EAC. These advisors are a committed group of professors from the CoE degree programs.

http://advising.engin.umich.edu/faculty-advisors/
College of Engineering Honor Code

In 1915, students in the College of Engineering created an Honor Code and formed a student-run Honor Council. The Honor Code is based on the principle that members of the College of Engineering community are honest and trustworthy people. The Honor Code exists to encourage ethics and integrity, and the principles of community, trust, and personal responsibility.

Exams are usually given without a proctor because your instructors trust that you will act honorably and professionally. It is your responsibility to understand and abide by community norms against cheating or inappropriate collaboration, as well as to adhere to any policies on collaboration that are unique to each course you take. Read your course syllabi carefully, and be sure to ask your instructors if you have questions about specific policies. Students who do not adhere to their course policies on collaboration will be brought before the Honor Council and accused of violating the Honor Code.

When an Honor Code violation accusation is made, the case is reviewed by the Engineering Honor Council, which is a group of students who provide fair peer hearings under the Honor Code. The Honor Council will investigate the accusation, collect all available evidence, hear any defense from the accused, and offer a recommendation to the Faculty Committee on Discipline. The Honor Council will also discuss with those found guilty why their behavior is unacceptable within our community and for a future engineer.

Please see [honorcode.engin.umich.edu](http://honorcode.engin.umich.edu) or e-mail the Honor Council with questions at coe-honorcouncil@umich.edu.

College of Engineering Bulletin

The College of Engineering Bulletin is your go-to guide for academically related questions and can assist you in navigating your academic career while in the College of Engineering at the University of Michigan. All references to the Bulletin in this Handbook are to the online 2015-2016 College of Engineering Bulletin [www.engin.umich.edu/bulletin](http://www.engin.umich.edu/bulletin).

Some of the information found in the Bulletin may be of particular interest to you as you transition into the College of Engineering:

- Academic Calendar
- Honor Code
- Sample Schedules
- Undergraduate Degree Requirements & Approved Minors
- Academic Rules (e.g., P/F and add/drop deadlines, declaring your major, Scholastic Standing, term withdrawals, transfer credit)
- Engineering Department Information (e.g., courses, contacts, sample schedule)

**NOTE:** Students follow the rules of the College of Engineering Bulletin in effect for the academic term in which they begin their studies. Please make sure to only use the 2015-2016 Bulletin throughout your time in the College of Engineering at the University of Michigan.
Tips for First-Year Students from the EAC Peer Advisors

EAC Peer Advisors

Peer advisors are upperclass students in a variety of engineering departments who have been trained to help first-year students choose courses, register for classes, and understand the policies and procedures of the College. More importantly, as students, peer advisors have a personal insight into life at the University of Michigan.

Life in the Classroom

• Go to class. You are paying for it, so get your money’s worth!
• Take notes during class.
• Come prepared. Do the reading and bring printed slides of the lecture.
• Ask questions if you are confused. If you still don’t understand, make a note to get help during your instructor’s office hours.

Life Outside of the Classroom

• Use a planner or develop an organizational system that works for you.
• Set aside several hours each day outside of the classroom for homework/study.
• Make time for yourself (make sure you are eating, sleeping, exercising, doing laundry, and showering)!
• Get involved in a student organization.

Studying

• What worked for you in high school will not work here.
• For every hour that you are in class, plan to study a minimum of 2-3 hours outside class. (Example: 15 credit hours equals at least 30-45 hours of study time)
• Utilize Campus Resources: Office hours, Math Lab, Physics Help Room, Science Learning Center, and Engineering Learning Center.
• Do not procrastinate. Know exam dates and start studying early!
• Break studying into small parts; make sure you study each day.
• Find a distraction-free environment to study in (no TV or Facebook). Don’t study in your room!
• Stay motivated by studying with a friend.

Four Keys to Success

As you think about how to approach the semester, please note the four points below. These points reflect the expectations of your professors, GSIs, and advisors; and are critical to academic success.

• Attend every class and complete every assignment. Class is a critical component of your academic success. You not only cover course material but you gain a sense for what the professor believes to be important. There are 168 hours in a week; plenty of time to meet your obligations if you create a plan and follow through.
• Spend 2-3 hours out of class on course-related work for every hour in class. Your learning is your responsibility. To have command of course content you must approach the material from a variety of angles. Map out a chapter before reading. Outline lecture content the morning before attending that lecture. Review lecture notes and rewrite important concepts in your own words.
• Time Management. Create a plan for your typical week during the semester. Use the schedule on page 31 to fill in your plan. Include classes, meals, exercise, sleep, study time, and any other time commitments you have on a weekly basis. This plan will eliminate decision making on the fly. How many times have you planned to study but then gone to the gym? How many times have you done the opposite? Create a plan and stick to it!
• Assignment/Obligation Management. Not all of your commitments happen weekly. It’s important that you have a system for tracking your assignments or obligations (e.g., a planner or calendar). Include all of your homework assignments, exams, and due dates, along with appointments and other obligations.
Engineering Core Courses

Sample Schedule

<table>
<thead>
<tr>
<th>Subjects Required by All Programs</th>
<th>Total Credit Hours</th>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
<th>Term 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math: See below</td>
<td>16</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Engr 100 and Engr 101</td>
<td>8</td>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chem 130, 125/126 or Chem 210, 211</td>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics 140, 141</td>
<td>5</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics 240, 241</td>
<td>5</td>
<td></td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intellectual Breadth or General Elective</td>
<td>16</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Core Credit Hours

Introduction to Engineering
Engineering 100

Introduction to Computers and Programming
Engineering 101 or 151

Chemistry
130/125/126 or 210/211

Math
115, 116, 215 and 216 or Honors Math equivalent courses:
  Applied Honors Calculus Sequence: 156, 255, 256
  Theoretical Honors Calculus Sequence: 185, 186, 285, 286

(Or requires Math 214 or either Math 215 or Math 216)
(Or requires Math 214 instead of Math 216)
(Or requires Math 214 instead of Math 216)

Physics
140/141 and 240/241 or
Honors Physics 160/161 and 260/261

Intellectual Breadth
Of these, 3 credits must be humanities, and you must also complete one course at the 300 level or above in either humanities or liberal arts courses (LACs). See pages 11-12.

The College of Engineering has 16 undergraduate degree programs. All 16 programs require a common set of core courses. In most cases, your first-year course selections will consist of courses from the common core.

IMPORTANT NOTES:
- If you have taken AP, IB, or A-Level exams, or have transfer credit from another institution for Math, Chemistry, Physics, or Engineering 101, you may have met the College of Engineering requirements for these areas. See your academic advisor for more information about whether your test scores or transfer credits satisfy the above requirements.
- A course load of 13-16 credits is recommended for your first term. Your advisor will help you choose courses best suited for you. 12 credits is considered full time.

NOTE: If you earn less than a grade of “C” in any math, science or engineering class, your ability to declare an engineering major will be at-risk. You should therefore consider retaking any math, science or engineering class in which you earn a “C-” or lower, and should consult with both your EAC advisor and the program advisor in any program in which you hope to declare your major.
General Electives

The College of Engineering requires students to complete between 9 and 15 credits of general electives depending on the engineering major.

Transfer Credit and Credit by Test

College course credit transferred as any course meeting these requirements will be accepted as a HU, LAC, or PCDC. Courses transferred as departmental credit can be accepted at the discretion of a CoE program advisor. Credit by test (e.g. Advanced Placement, A-Level, and International Baccalaureate) can also be used to satisfy any of these requirements except for the 3 credit humanities requirement and except that language credit by test must be at the 200 level or higher (language credit by test at the 100 level can be used for General Electives). In addition, language credit by test is limited to 8 credits.

Intellectual Breadth

The College of Engineering requires all students to complete 16 credits of intellectual breadth courses, which are subject to these rules:

- **Humanities**: At least 3 credits of humanities classes marked HU in the LSA Course Guide. Credit by test cannot be used to meet this requirement.
- **Professional and Creative Development Courses (PCDC)**: No more than 4 credits of PCDC (defined below).
- **Liberal Arts Courses (LACs)**: The remainder of the 16 credits are drawn from any of the LACs (See page 12).
- At least 3 credits in the Humanities or LACs must be at the 300 level or higher.

Professional and Creative Development Courses (PCDC)

Professional and creative development courses offer a student the opportunity to build on non-engineering and non-technical courses to develop their creativity and professional capabilities as engineers. PCDC courses include any course from the following subjects in the indicated units, provided they are not marked BS or NS in the LSA Course Guide:

- Taubman College of Architecture and Urban Planning: Architecture (ARCH), Urban Design (UD), Urban Planning (UP)
- Stamps School of Art & Design (ARTDES, UARTS)
- Ross School of Business: Accounting (ACC), Business Administration (BA), Business Economics and Public Policy (BE), Entrepreneurial Studies (ES), Law History & Communication (LHC), Marketing (MKT), Management and Organization (MO), Strategy (STRATEGY)
- School of Music, Theatre & Dance: Music Composition (COMP), Musicology (MUSICOL), Music Theory (THEORY), Theater & Drama (THTREMUS)
- School of Natural Resources and Environment (NRE)
- Ford School of Public Policy (PUBPOL)
- School of Public Health: Health Behavior & Health Education (HBEHED), Health Management & Policy (HMP)

**NOTE**: A 300 level or higher PCDC course does not count toward the 300-level requirement for the Intellectual Breadth.
Intellectual Breadth (continued)

Definition of Liberal Arts Courses

Liberal Arts Courses (LACs) are intended to give students the broader education in qualitative critical thinking and human society that can give context to their engineering practice and to their contributions as citizens. This excludes mathematics and science courses. A complete definition can be found in the CoE bulletin, but the following courses are considered to be LAC’s:

- Any course offered by any UM-AA unit marked HU or SS in the LSA Course Guide is considered a LAC.
- For a course not marked HU or SS but offered under one of the LSA subjects listed below, it is considered a LAC if it is not marked BS, NS, QR/1, or QR/2 in the LSA Course Guide.
- In addition, if a course is not marked HU or SS in the LSA Course Guide, but is marked Experiential or Independent, then explicit permission of a CoE program advisor is needed to use it as a LAC.

The LSA Course Guide can be accessed at: www.lsa.umich.edu/cg

- Arabic (AAPTIS)
- Armenian, Persian, Turkish & Islamic Studies (APITIS)
- Afroamerican & African Studies (AAS)
- Ancient Civilizations & Biblical Studies (ACABS)
- American Culture (AMCULT)
- Anthropological Archaeology (ANTHRARC)
- Cultural Anthropology (ANTHRCAP)
- Armenian Studies (ARMENIAN)
- Asian Studies (ASIAN)
- Asian Languages (ASIANLAN)
- Bosnian, Croatian, & Serbian (BCS)
- International and Comparative Studies (CICS)
- Japanese Studies (CJS)
- Classical Archaeology (CLARCH)
- Classical Civilization (CLCIV)
- Classical Linguistics (CLLING)
- Complex Systems (CMPLXSYS)
- Communication Studies (COMM)
- Comparative Literature (COMPLIT)
- Comprehensive Studies Program (CSP)
- Czech (CZECH)
- Dutch (DUTCH)
- Economics (ECON)
- English (ENGLISH)
- Environment (ENVIRON)
- French (FRENCH)
- Geography (GEOG)
- German (GERMAN)
- Greek (GREEK)
- Great Books (GTBOOKS)
- History of Art (HISTART)
- History (HISTORY)
- Hebrew & Jewish Cultural Studies (HJCS)
- College Honors (HONORS)
- Italian (ITALIAN)
- Judaic Studies (JUDAIC)
- Latin American & Caribbean Studies (LACS)
- Latin (LATIN)
- Lloyd Hall Scholars (LHSP)
- Linguistics (LING)
- Medieval & Early Modern Studies (MEMS)
- Middle Eastern & North African Studies (MENAS)
- Modern Greek (MODGREEK)
- Museum Studies (MUSEUMS)
- Organizational Studies (ORGSTUDY)
- Philosophy (PHIL)
- Polish (POLISH)
- Political Science (POLSCI)
- Portuguese (PORTUG)
- Psychology (PSYCH)
- Russian & East European Studies (REEES)
- Religion (RELIGION)
- Romance Languages & Literatures (ROMLANG)
- Romance Linguistics (ROMLING)
- Russian (RUSSIAN)
- Screen Arts & Culture (SAC)
- South Asian Studies (SAS)
- Scandinavian (SCAND)
- Slavic Linguistics, Literary Theory, Film, & Surveys (SLAVIC)
- Sociology (SOC)
- Spanish (SPANISH)
- Southeast Asian Studies (SEAS)
- Ukrainian (UKRAINE)
- Women’s Studies (WOMENSTD)
- Yiddish (YIDDISH)

NOTE: Chemical Engineering, Civil Engineering, Environmental Engineering, Mechanical Engineering, and Materials Science and Engineering each require one course in economics. This economics requirement can overlap with the LAC requirement.
Foreign Languages

The U-M Foreign Language Placement Examinations are given during orientation in French, German, Latin, Hebrew, Chinese, Japanese, and Russian. Students interested in taking other language examinations or who miss the placement exams during orientation should contact the individual language department during the Fall Term to find out when placement exams are offered. The College of Engineering values the study of language and international experiences, therefore we urge you to take any placement tests for which you are qualified so that you may continue language study.

If you gained your language skill through formal study in high school you are eligible for academic credit based on your U-M Foreign Language Placement results. Students may not receive foreign-language credit by examination above the second-year level.

Language credit by U-M Examination or by Advanced Placement, A-Level, and IB examination will be granted up to a maximum of eight credit hours, distributed as follows:

- Liberal Arts Course (LAC) credit by test will be given for second year or higher foreign language placements only. Credit by test WILL NOT satisfy the 3 credits of humanities in the intellectual breadth requirement.
- Credit by exam for 100-level courses will count as general electives.

For more information on any of the Asian language placement exams, please contact:

Department of Asian Languages and Cultures
202 S. Thayer Street, Suite 6111
Ann Arbor, MI 48104-1608
(734) 764-8286
www.lsa.umich.edu/asian/languageprograms/placementproficiencytests

Q&A

Q Is a foreign language course required for a degree in Engineering?
A No. Engineering students are not required to study a foreign language, but knowledge of a second language is encouraged. Foreign language credits do apply towards your LAC or general electives credit.

Q Can HU/SS courses required for my LSA minor also count toward the intellectual breadth requirement?
A Yes. As long as the courses are marked HU or SS or are offered under one of the LSA subjects listed on page 12, and are not marked BS, NS, QR/1, or QR/2. In the LSA Course Guide, you may double-count them for your LSA minor and the CoE intellectual breadth requirement. Consult your advisor to make sure you fulfill the requirements of each. See page 19 for a list of approved LSA minors.

Q Can I count any of my AP credits as Intellectual Breadth?
A Yes. Credit by test (e.g., Advanced Placement, A-Level, and International Baccalaureate) can be used to satisfy any of the intellectual breadth requirements except for the 3 credit humanities requirement. Please note that depending on the course it may be used as a general elective credit instead of an intellectual breadth credit (e.g., statistics, biology, environmental science).
Transfer Credit

The College of Engineering accepts transfer credit from accredited universities and colleges, including community colleges. If you enrolled in college courses while you were in high school, and would like these courses considered for transfer credit, you need to send an official college transcript from that institution to the College of Engineering at:

Office of Recruitment and Admissions
153 Chrysler Center
2121 Bonisteel Boulevard
Ann Arbor, MI 48109-2092
(734) 647-7101
engincredit@umich.edu

The Office of Recruitment and Admissions will evaluate your credit to determine which U-M requirements you have met, if any. You need to achieve a “C” or better in courses at other colleges to receive credit from the University of Michigan. Your U-M GPA will not be affected.

NOTE: It may take several weeks for the Office of Recruitment and Admissions to process your transfer credit, and it is unlikely that this information will be available to your EAC advisor during orientation. Please notify your advisor during orientation about any credits you plan to transfer from another college or university.

Q&A

Q Can I take courses in the summer after my first year at U-M?
A Yes. Summer can be a good time to catch up or get ahead with your coursework. For more information about summer course procedures, refer to the EAC website: advising.engin.umich.edu - under “Quick Links” click on “Course Equivalency Database.” Follow the steps to make sure courses are approved for transfer.

Q Does the College of Engineering accept transfer credit for online courses?
A Yes. It is possible to receive credit for online coursework. Online course credit is limited to a maximum of 12 credit hours per student. A CoE student seeking to take an online course must submit a Transfer Credit Approval Form prior to enrolling in the course to the CoE’s Office of Recruitment and Admissions. Please note that online CHEM, ECON, EECS, MATH, PHYSICS, and SPANISH courses do not transfer.

Q Is it possible to take courses at a community college?
A Yes. The College of Engineering does accept credit from community colleges. However, be sure to speak with your advisor about your plans. Certain courses (i.e., some courses in Math and Physics) should be taken at a four-year institution to ensure you are prepared for engineering coursework.
Advanced Placement, International Baccalaureate & A-Level Credit Accepted by the College of Engineering

For International Baccalaureate credit information, please refer to: [http://admissions.umich.edu/apply/freshmen-applicants/ap-ib-credit](http://admissions.umich.edu/apply/freshmen-applicants/ap-ib-credit)

A-level credit is evaluated individually by the Office of Admissions. For more information, refer to: [www.admissions.umich.edu/international-advanced-standing-credit-guidelines](http://www.admissions.umich.edu/international-advanced-standing-credit-guidelines)

The scores or grades you received for these examinations may not be posted to your U-M record during Orientation. It is your responsibility to inform the EAC if your AP, IB, or A-level credit evaluation is incorrect or missing.

Be aware that receiving this credit can have an impact on tuition, because tuition increases once you have 55 credit hours. Students are responsible for reviewing their transcript when credits are posted and asking for removal of any credits before the end of your first term at U-M.

If you have not yet had your AP, IB, or A-level scores sent to U-M, please contact the AP, IB, or A-level program and request that scores be sent to the University of Michigan Office of Admissions:

Office of Undergraduate Admissions
University of Michigan
1220 Student Activities Building
515 E. Jefferson
Ann Arbor, MI 48109-1316
(734) 764-7433

**NOTE:** If you do not receive the scores you planned on, inform your EAC advisor. You may need to revise your schedule. If an advisor recommends you begin in higher-level courses due to your projected test scores, this does not imply that you have received credit for the courses. Credits are only awarded by U-M after scores and grades are received and reviewed.

<table>
<thead>
<tr>
<th>Subjects</th>
<th>AP Exams</th>
<th>Score</th>
<th>Actual (A) or Estimate (E)</th>
<th>Required for credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
<td>AP Calc AB</td>
<td>________</td>
<td>4+ = Math 115</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Calc BC</td>
<td>________</td>
<td>4 = Math 115; 5 = Math 115 &amp; 116</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IB Math HL</td>
<td>________</td>
<td>6 = Math 115; 7 = Math 115 &amp; 116</td>
<td></td>
</tr>
<tr>
<td>Chemistry &amp; Physics</td>
<td>AP Chemistry</td>
<td>________</td>
<td>4+ = Chem 130, 125, &amp; 126</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IB Chemistry HL</td>
<td>________</td>
<td>4 = Chem 130, 125, &amp; 126; 5 = Chem 130, 125, 126, &amp; 3 general elective credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Physics B</td>
<td>________</td>
<td>no credit granted</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Physics C (M)</td>
<td>________</td>
<td>5 = Phys 140 &amp; 141</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Physics C (E)</td>
<td>________</td>
<td>5 = Phys 240 &amp; 241</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IB Physics</td>
<td>________</td>
<td>4+ = Phys 140, 141, 240, &amp; 241</td>
<td></td>
</tr>
<tr>
<td>General Electives &amp; Intellectual Breadth</td>
<td>AP Biology</td>
<td>________</td>
<td>3 = 4cr; 4+ = 5cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Comp Sci A</td>
<td>________</td>
<td>4+ = 2cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Econ (Micro)*</td>
<td>________</td>
<td>4+ = 2cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Econ (Macro)*</td>
<td>________</td>
<td>4+ = 2cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Engl (La&amp;Co)*</td>
<td>________</td>
<td>4+ = 3cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Engl (Lit&amp;Co)*</td>
<td>________</td>
<td>4+ = 3cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Environ Sci</td>
<td>________</td>
<td>4+ = 4cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Geography*</td>
<td>________</td>
<td>4+ = 3cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP History of Art*</td>
<td>________</td>
<td>4+ = 3cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Hist (Amer)*</td>
<td>________</td>
<td>4+ = 4cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Hist (Euro)*</td>
<td>________</td>
<td>4+ = 4cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Hist (World)*</td>
<td>________</td>
<td>4+ = 4cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Pol Sci* (US G)</td>
<td>________</td>
<td>3+ = 4cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Pol Sci* (Cmp)</td>
<td>________</td>
<td>3+ = 4cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Psych*</td>
<td>________</td>
<td>4+ = 4cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AP Stats</td>
<td>________</td>
<td>4+ = 4cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IB HL Bio</td>
<td>________</td>
<td>4 = 4cr; 5+ = 5cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IB HL Comp Sci</td>
<td>________</td>
<td>4 = 4cr (EECS 101); 5+ = 6cr (EECS 101 + 2 EECS Dept)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IB HL Econ*</td>
<td>________</td>
<td>5+ = 8cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IB HL Engl*</td>
<td>________</td>
<td>5 = 3cr; 6+ = 6cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IB HL Hist (any)*</td>
<td>________</td>
<td>5+ = 4cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IB HL Phil*</td>
<td>________</td>
<td>5+ = 4cr</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IB HL Psych*</td>
<td>________</td>
<td>5+ = 8cr</td>
<td></td>
</tr>
</tbody>
</table>

AP language is accepted, but varies by subject. Please check with your advisor.

* Starred courses count toward Intellectual Breadth
Course Registration Information

Registration

Each term the Registrar’s Office will notify you via email to check for your enrollment appointment on http://wolverineaccess.umich.edu. Go to “Student Center” and view your date under “Enrollment Dates.”

Your enrollment appointment is the date and time you can register online for your next term courses. Prior to registration, you will need to meet with an EAC Advisor to plan your course schedule. Fall advising appointments to discuss winter term courses begin in October. After your advising session, backpack your class choices and prepare alternate schedules in the event that a class is full on your registration date.

Permissions (Electronic Override)

The registration system will block your registration into a course to enforce specific restrictions on courses such as prerequisites, instructor’s permission, Honors, etc. If you believe you are eligible to take the course or the course is closed, contact the department or program for enrollment assistance. If given approval to take the course, request a “permission” (electronic override). Once you receive an electronic override you must access Wolverine Access and add the course to your schedule. A “Permission” (electronic override) can have an expiration date. You must add the course by midnight on the day it expires.

NOTE: Remember that classes at the University start 10 minutes after the times listed on Wolverine Access. Be sure to allow 30 minutes for travel between North and Central Campus.

Waitlists

If the course or section you want to take is closed because the enrollment limit has been reached, there are still options to try to get in to the class:

• Waitlist the class on Wolverine Access if the option is available. The system will give you the number of your position on the waitlist. You may waitlist for only one section of a particular course.
• Some departments maintain their own lists, and you will have to call and ask them to add your name. (e.g., Physics Lab)
• If you are waitlisted, attend the first day of class and speak to the professor about getting an override.
• A place on the waitlist does not guarantee you a seat in the class.

NOTE: Having “permission” or an electronic override does not automatically enroll you in the course. You must add the course to your schedule. If you’re currently on the waitlist, you must drop the course then re-register for it.

Department Contacts

Chemistry Department
1500 Chemistry
chemundergrad@umich.edu

Engineering 100, 101,151
1422 LEC
engin-fyp@umich.edu

Mathematics Department
2074 East Hall
math-permissions@umich.edu

Physics Department
1440 Randall Lab
physics.sso@umich.edu
College-Approved Minors

Electing to earn an academic minor is optional. Courses required as part of a minor program cannot be taken pass/fail. Please refer to the online 2015-2016 College of Engineering Bulletin for more information www.engin.umich.edu/bulletin.

Engineering Minors

- Minor in Computer Science*
- International Minor for Engineers
- Minor in Electrical Engineering*
- Minor in Environmental Engineering**
- Minor in Multidisciplinary Design
- Minor in Naval Architecture and Marine Engineering

* These minors are not available to students who have declared a major in Electrical Engineering (EE), Computer Engineering (CE), or Computer Science (CS).

** This minor is not available to students who have declared a major in Civil Engineering (CivE) or Environmental Engineering (EnvE).

Minor in Computer Science

The Minor in Computer Science is a smart way to broaden your horizons and make yourself more marketable to employers. Computer scientists are experts in computation, both in terms of the theory of what fundamental capabilities and limitations of computation are, as well as how it can be practically realized and applied. http://cs.lsa.umich.edu/wp-content/uploads/2014/08/CS_Minor_Program_Guide.pdf

International Minor for Engineers

The International Minor for Engineers addresses a core set of skills and experiences that will prepare graduates for the challenges of the global engineering profession. Students will gain basic proficiency in a non-English language, understanding of non-U.S. cultures and societies, intercultural communication skills, knowledge of global trends in engineering and business, practical experience working/studying overseas and navigating a new cultural setting. intlminor.engin.umich.edu

Minor in Electrical Engineering

A Minor in Electrical Engineering, offered through the Electrical and Computer Engineering division of the Electrical Engineering and Computer Science (EECS) Department, is designed to provide an avenue for a diverse education for students outside of the EECS department. Due to the extensive breadth of electrical engineering discipline areas, students seeking an academic minor in electrical engineering have a spectrum of choices for the program paths they choose. www.eecs.umich.edu/eecs/undergraduate/EEMinor.pdf

Minor in Environmental Engineering

The Minor in Environmental Engineering allows students to take 16 credits focused in environmental engineering to broaden their career and graduate school opportunities. The program requires coursework in Sustainable Engineering, Fluid Mechanics, and Environmental Engineering Principles, followed by two electives from a prescribed list. http://cee.engin.umich.edu/minor-environmental-engineering

Minor in Multidisciplinary Design

While pursuing the Minor in Multidisciplinary Design, innovative students design, build, test and implement new and interesting projects. Teams collaborate with faculty and corporate sponsors to understand and meet the needs of science, industry and society. Students apply classroom knowledge to real-world problems to produce tangible results and social impact. mdp.engin.umich.edu

Minor in Naval Architecture and Marine Engineering

The Minor in Naval Architecture and Marine Engineering provides a coherent path to employment in the marine industry and exposure to research opportunities for those students who wish to work in the marine industry yet are not majoring in naval architecture and marine engineering. The marine environment poses particular challenges not found in the usual course of engineering practice, and graduates with knowledge of these challenges will be better prepared to succeed in this field. http://name.engin.umich.edu/academics/undergradprogram/minor-naval-engineering/
College-Approved Minors (continued)

Non-Engineering Minors

Engineering students have considerable flexibility in electing courses from other schools/colleges through their intellectual breadth courses and general electives. In the interest of helping students make coherent choices in selecting these courses, we allow and encourage our students to pursue minors offered in other U-M schools/colleges.

**Penny W. Stamps School of Art & Design**

The minor in Studio Art and Design, offered by the Penny W. Stamps School of Art & Design, allows students flexibility in crafting their course of study while providing a framework that ensures that the final course of study will have its own integrity.

With the assistance of Stamps advisor Brian Banks, students select courses most appropriate to their interests. The result is a minor uniquely suited to and reflective of the individual. A Stamps minor will offer you the opportunity to sharpen your problem solving skills, explore your creativity, and engage in the intellectual process of creative work.

You’ll roll up your sleeves and make things. You’ll learn to use the tools and materials that artists and designers use in their own contemporary art practice. You’ll build tangible solutions to complex problems. You’ll analyze sensory experience. You will envision what does not exist and you will make it so. Visit our website and click on “Minoring in Stamps Art & Design” to schedule an appointment with a Stamps advisor. [www.stamps.genbook.com](http://www.stamps.genbook.com)

**School of Social Work**

The Community Action and Social Change (CASC) minor, offered by the School of Social Work, prepares students to (1) examine community action and social change using a multidisciplinary framework, (2) address community action and social change in multilingual and multicultural communities, (3) integrate social justice values into the community action and social change processes, and (4) engage in service learning opportunities to promote community action and social change.

The 16 credit minor requirements include: Foundation Minor Course (SW 305), CASC Elective Clusters (12 credits, minimum of 3 credits in each cluster), and Capstone.

Students must make an appointment with a CASC advisor at cascminor@umich.edu prior to declaring the minor. [www.ssw.umich.edu/programs/undergrad](http://www.ssw.umich.edu/programs/undergrad)

**Stephen M. Ross School of Business**

The Business minor, offered by the Stephen M. Ross School of Business, is designed for students who would like to complement their non-business undergraduate major with business knowledge.

The curriculum will enable students to integrate business concepts, skills, and perspectives into their declared majors and will add value to many technical and non-technical majors across campus. The Minor in Business will require students to complete 15 credits of coursework through the Stephen M. Ross School of Business. The 15 credits of business coursework will include a selection of 12 credits of core course options and 3 credits of elective coursework.

Students must be admitted to the Minor in Business during an annual application process; admittance will require Junior standing and completion of both Pre-Calculus or Calculus coursework and the First Year Writing requirement or ENGR 100. [www2.bus.umich.edu/MyiMpact/academics/businessminor](http://www2.bus.umich.edu/MyiMpact/academics/businessminor)

**Minor in Entrepreneurship:**

The Minor in Entrepreneurship, is a collaborative effort offered through the College of Literature, Science, and the Arts in support with Innovate Blue. On a spectrum of creative problem solving and starting a business this 15-credit minor equips undergraduate students from any background or area of study with the necessary skills and experience to translate ideas into real impact in the arts, sciences, commercial, and social areas. All students are to begin in two core courses as early as their sophomore year: (ES 212) Entrepreneurial Business Basics and (UC 270) Entrepreneurial Creativity.

**Program in Entrepreneurship:**

The primary purpose of the Program in Entrepreneurship (PIE) is to give students who are not able to commit to the full Minor in Entrepreneurship a formal academic program structure through which they can acquire fundamental entrepreneurial knowledge. This 9-credit supplemental study requires the first two core courses required of the minor followed by a minimum of three credits of electives. Students who begin the Program in Entrepreneurship can later decide to continue on to complete the full 15-credit Minor in Entrepreneurship.

To schedule an appointment with an advisor please visit Innovate Blue at [http://innovateblue.umich.edu/courses-programs/](http://innovateblue.umich.edu/courses-programs/) or in 1074 Shapiro.
College-Approved Minors (continued)

Program in the Environment

The Program in the Environment (PitE) offers Environment, Sustainability and Food and the Environment.

**Environment:** The environment minor is an interdisciplinary examination of current environmental topics of the day. To satisfy the requirement of this minor, students must complete 17 credits, with one course elected from each of the following categories: Introductory Interdisciplinary course; Environmental Natural Science; Environmental Social Science; Culture and Environment; and Analytics or Practical Experience. Two courses must be at the 300 level or above.

**Sustainability:** Sustainability has as its core goal the development of systems of human behavior that enable both current and future generations to maintain a quality of life that is both productive and pleasing. To achieve such a goal requires an interdisciplinary approach to answer the complex issues that challenge our ability to develop sustainable systems now and in the future. To satisfy the requirement of this minor, students must complete 18 credits, which includes a practical/leadership immersion experience and a senior capstone course. Three courses must be at the 300 level or above.

**Food and the Environment:** The Food and the Environment Minor is an interdisciplinary program of study with courses addressing questions of food production, consumption, and policy in relation to the environment, human health, and equity. The Food Systems Minor consists of no less than 5 courses for a total of at least 15 credits, at least two courses must be 300 level or above.

PitE is a University-wide collaborative effort overseen by the College of Literature, Science, and the Arts and the School of Natural Resources and Environment. [http://www.lsa.umich.edu/pite/students/minors](http://www.lsa.umich.edu/pite/students/minors)

College of Literature, Science, and the Arts

Students may choose from any of the College of Literature, Science, and the Arts (LSA) minors listed below. [www.lsa.umich.edu/students/academicsrequirements/majorsminors](http://www.lsa.umich.edu/students/academicsrequirements/majorsminors)

- Afroamerican and African Studies
- American Culture
- Anthropology
- Applied Statistics
- Arab and Muslim American Studies
- Asian Languages and Cultures
- Asian Studies
- Asian/Pacific Islander American Studies
- Astronomy and Astrophysics
- Biochemistry
- Biological Anthropology
- Biology
- Biophysics
- Bosnian/Croatian/Serbian Literature and Culture
- Central Eurasian Studies
- Chemical Measurement Science
- Chemical Physics
- Chemistry
- Classical Archaeology
- Classical Civilization
- Complex Systems
- Creative Writing
- Crime and Justice
- Cultures and Literatures of Eastern Europe
- Czech Language, Literature, and Culture
- Digital Studies
- Drama: Text to Performance
- Early Christian Studies
- Earth Sciences
- Eastern European Cultures and Literature
- East European Studies
- Ecology and Evolutionary Biology
- Economics
- Environmental Geology
- Epistemology and Philosophy of Science
- French and Francophone Studies
- Gender and Health
- Gender, Race, and Nation
- General Philosophy
- Geology
- German Studies
- Global History
- Global Media Studies
- Greek (Ancient) Language and Literature
- Greek (Modern) Language and Literature
- History
- History of Art
- History of Law and Policy
- History of Medicine and Health
- History of Philosophy
- Interdisciplinary Astronomy
- Intergroup Relations Education
- International Studies
- Islamic Studies
- Italian
- Judaic Studies
- Language, Literature, and Culture of Ancient Rome
- Latin American and Caribbean Studies
- Latin Language and Culture
- Latina/o Studies
- Law, Justice, and Social Change
- Lesbian, Gay, Bisexual, Transgender, Queer (LGBTQ) and Sexuality Studies
- Linguistics
- Mathematics
- Medical Anthropology
- Medieval and Early Modern Studies
- Mind and Meaning
- Modern European Studies
- Modern Middle Eastern and North African Studies
- Moral and Political Philosophy
- Museum Studies
- Music
- Native American Studies
- Near Eastern Languages and Culture
- Oceanography
- Paleontology
- Peace and Social Justice
- Physics
- Plant Biology
- Polish Language, Literature, and Culture
- Political Science
- Polymer Chemistry
- Portuguese
- Religion
- Russian Language, Literature, and Culture
- Scandinavian Studies
- Science, Technology, and Society
- Spanish Language, Literature, and Culture
- Statistics
- Translation Studies
- Ukrainian Language, Literature, and Culture
- Urban and Community Studies
- Writing
- Yiddish Studies
College of Engineering Specialized Study Programs

Honors Program

The Honors Program encourages academically ambitious students to take their Michigan Engineering education to the next level. Students gain hands-on experience through a high-impact project in a focus area, such as research, entrepreneurship, design, global business/operations or public service. Every Honors student develops educational breadth through the completion of an academic minor, while Honors seminars promote leadership development. Moreover, Honors students across all focus areas gain valuable experience while working closely with faculty on projects related to their engineering interests.

Students specifically interested in global business and operations have the opportunity to pursue the Engineering Global Leadership (EGL) specialization. This special program under Honors is structured for students to complete the International Minor for Engineers, 15 credits of global business and operations coursework in partnership with the Ross School of Business, leadership development seminars, and a capstone project through the Tauber Institute for Global Operations. All EGL students complete two degrees: a Bachelor’s and a Master’s degree in the College of Engineering.

Sophomore students who have an overall GPA of a 3.6 are invited to apply for the College of Engineering Honors Program.

Honors & Engagement Programs
251 Chrysler Center
honors.engin.umich.edu

Program in Sustainable Engineering

The Program in Sustainable Engineering is an academic program that allows undergraduate students to take 9 credit hours of courses focused on sustainability to earn the following notation on their transcript: “Program in Sustainable Engineering”.

The 9-credit program requires the 3-credit course Sustainable Engineering Principles (CEE 265). The remaining 6 credits are taken from a list of engineering courses (3 credits) and a list of non-engineering courses (3 credits). The program can be completed without exceeding the 128 credits required for a BS/BSE and provides students the opportunity to organize their elective courses around this theme.

Program in Sustainable Engineering
pise.engin.umich.edu
Career Exploration & Campus Involvement

These activities can help you choose a major and plan for your future career:

- Meet with your EAC advisor to discuss your options. Sign up online. advising.engin.umich.edu
- Meet with faculty in your areas of interest and visit engineering department websites for information on degree programs. engin.umich.edu/departments
- Visit the Engineering Career Resource Center (ECRC) in 230 Chrysler Center for help researching engineering career opportunities and developing your resume. career.engin.umich.edu
- If you’re not sure whether engineering is right for you, meet with your EAC advisor, and a career counselor at the U-M Career Center in 3200 Student Activities Building. careercenter.umich.edu
- Develop short-term and long-term goals.
  Where do you want to be one year from now?
  What about five years from now?
  What are some barriers to meeting your goals, and how can you overcome them?
- Research engineering majors and careers online. Pick up a Career Field in Focus sheet at the EAC.
- Take Engineering 110: The Engineering Profession (only offered in the Fall Term).
- Talk to peer advisors and upperclass friends about their majors. Ask about the skills required to be successful, projects they complete in advanced courses, and internships and jobs in their field.

Get Involved on Campus

There are many reasons to get involved on campus. You will meet new friends, have fun, and gain important experience. Employers and graduate schools like to see that students are involved in at least one activity on campus.

Choose an activity that sounds interesting to you, and start slowly (we recommend you join no more than 1-2 groups in your first term; you will need time to adjust to campus). Here are some resources for finding student organizations:

- CoE Design Teams and Student Societies: engin.umich.edu/college/info/students/life
- U-M Maize Pages: maizepages.umich.edu

You can also meet student organization representatives at campus events throughout the year:

**Welcome Day**
Friday, September 11
1 - 3 pm
North Campus

College’s annual welcome event! FREE Food & Prizes! Connect with fellow students, make new friends, and learn about various departments, student organizations and teams, as well as other exciting opportunities throughout the College.

**Northfest**
Monday, Sept 7
11 am - 2 pm
North Campus Diag

North Campus fall student organization information fair. If you are looking to get involved on campus, this is the time to explore. Northfest has over 150 student organizations and departments represented.

**Festifall**
Thursday, Sept 10
11 am - 4 pm
Central Campus Diag

Central Campus fall student organization information fair. Festifall is the largest fair of the year with over 450 student organizations and departments from across the University to help you discover ways to get involved and have some fun!

**Winterfest**
Tuesday, Jan 12
4 - 7:00 pm
Michigan Union

Central Campus winter student organization information fair. Did you miss your chance to explore student organizations in the fall? Winterfest has over 100 student organizations and departments to help you find a new passion!
Engineering Career Resource Center (ECRC)  
*Guide to the ECRC Through the Years*

Within this chart are recommendations on how to utilize the ECRC’s resources during your time as a University of Michigan student. As you go through the process, remember that the ECRC is here to provide support throughout your job search process, and to help you find summer internships, co-ops, part-time or full-time work experience.

**FIRST STEP**  
Activate your ENGenius.Jobs account

**What is ENGenius.Jobs?**  
ENGenius.Jobs is an online recruiting system for University of Michigan students and alumni with an engineering or LSA computer science concentration.

**Why use ENGenius.Jobs?**  
- Sign up for a counseling appointment  
- RSVP to ECRC workshops  
- Apply to full-time, internship, and co-op opportunities  
- Schedule on-campus interviews when selected

**How do I set up my account?**  
- Check your UMICH.EDU email account for an email from ECRC containing your username and password. If you did not receive this information, please email ecr-info@umich.edu  
- Log into your account at engineering.umich-csm.symplicity.com/students  
- Update your profile  
- Upload a resume

**NEXT STEPS**  
- Attend a workshop  
- Schedule an appointment with an ECRC Career Consultant

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**Counseling Appointments**  
First-Year Student: Resume Review  
Sophomore: Mock Interview  
Junior: Negotiating Job Offers  
Senior: Negotiating Job Offers

**ENGenius.Jobs**  
First-Year Student: Activate Account  
Sophomore: Apply for Co-op & Intern Positions  
Junior: Apply for Full-time Positions  
Senior: Apply for Full-time Positions

**Career Fairs**  
First-Year Student: Network, Explore Potential Careers  
Sophomore: Search for Co-op & Intern Opportunities  
Junior: Search for Full-time Opportunities  
Senior: Search for Full-time Opportunities

**Workshops**  
First-Year Student: Intro to ENGenius  
Sophomore: Resume Review  
Junior: Career Fair Prep  
Senior: Interview Prep  
Senior: Job Search Strategies

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**NEXT STEPS**  
- Attend a workshop  
- Schedule an appointment with an ECRC Career Consultant

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**Did you know that ENGenius.Jobs can be a resource for students choosing their major?**

- Browse the various positions on ENGenius.Jobs, and note the field in which positions of interest are located  
- Connect with engineering professionals through the professional network to explore fields and careers of interest
Academic Resources

Academic Success

A key component of all engineering students’ academic success is knowledge of critical CoE and campus resources. In addition to this First-Year Student Handbook and the EAC, the College of Engineering website is a good place to find information on all the resources available to students: www.engin.umich.edu/college/info/students

Part of what you learn in college is how to find resources to help you achieve your goals. Below is a list of more places you can look to find important information about CoE policies and resources.

Information Sources

- Course websites and CTools
- EAC Peer Advisors
- CoE Peer Mentors
- Engineering department advisors and peer advisors
- Email messages
- Advising Matters newsletter and podcast
- Faculty and GSI announcements in the classroom
- Your classmates
- Residence hall workshops or Resident Advisors
- CoE Bulletin: www.engin.umich.edu/bulletin

The EAC Advisors are here to help you with academic and non-academic concerns. They are aware of the University and CoE resources available to help you with any personal issues you face.

The help is out there—you just have to ask.

Academic Resources

There are a number of resources available to assist you with your studies, including resource centers and labs, and free tutoring. Several are listed below. Don’t wait until the last minute to get help! Meet with your instructor or GSI at the first sign of confusion. Seek help from peers, and keep your EAC advisor updated on your progress.

Engineering 101 - GSI Office
B519 Pierpont Commons
(734) 763-0551

Engineering Learning Center (ELC)
273 Chrysler Center
(734) 615-8438
elc.engin.umich.edu

Practice Exams: Math 105 through 215, Chem 130, Physics 140, Engr 101
Free Tutoring: Math, Chemistry, Physics, Engr 101
Supplemental Instruction: Math, Chemistry, Physics, Engr 101

Math Lab
B860 East Hall
(734) 936-0160
www.lsa.umich.edu/math/undergrad/coursesforfreshmen/infinresources/mathlab

Physics Help Room
1416 Randall Lab
(734) 764-4437
www.lsa.umich.edu/physics/academics/undergraduateprogram/introductoryphysicscourses/tutoring

Science Learning Center (Chemistry, Physics, Biology, and Honors Math)
1720 Chemistry Building
(734) 764-9326
www.lsa.umich.edu/slc

Science Learning Center - Satellite Location
2165 Undergraduate Science Building
(734) 764-9326
www.lsa.umich.edu/slc/slc satellite

Sweetland Writing Center
1310 North Quad
(734) 764-0429
www.lsa.umich.edu/sweetland

Tau Beta Pi (CoE Honor Society)
tbp.engin.umich.edu/outreach/tutoring

Free Tutoring: Math 100-200 level, Chem 130 and 210, Physics 140 and 240, Engr 101
Where are some good places to study?

Finding a quiet, comfortable place to study is important for a successful academic career. Generally speaking, studying in your room is not productive because of the many distractions that can interrupt your focus (e.g., phone calls, visitors, loud music, TV, video games, internet).

Central Campus
- Residence hall study lounges
- Shapiro Undergraduate Library (UGLI)
- Graduate Library
- Public Health Library (on the Hill)

North Campus
- Chrysler Center Lobby
- Duderstadt Center
- GG Brown Blue Lounge
- Pierpont Commons
- BBB Lounge

Student Services & Resources

The following resources have been especially useful to engineering students in the past.

Career Center (CC)
3200 Student Activities Building
(734) 764-7460
careercenter.umich.edu

The U-M Career Center assists students as they explore career opportunities. Services are wide-ranging and include everything from helping with the selection of a major to exploring internship and career options.

Center for Engineering Diversity & Outreach (CEDO)
1108 LEC
(734) 647-7120
cedo.engin.umich.edu

Programs housed within CEDO:
- Multicultural Engineering Programs Office (MEPO)
- Women in Science and Engineering (WISE)
- Office of Engineering Outreach and Engagement (OE)

CEDO serves students of all backgrounds in order to develop engineers who are innovative leaders in a global society. The Center works to broaden participation, increase academic performance and support diverse students from all backgrounds.

Center for Entrepreneurship (CFE)
3350 Duderstadt Center
(734) 763-1021
cfe.umich.edu

The CFE connects current students with Michigan alumni in the start-up community, provides grants for students to pursue their own ideas for companies and products, and supports, simplifies and clarifies intellectual property transfer processes for students and the broader community. The CFE also develops entrepreneurship-focused academic programming, as well as coordinates activities with entrepreneurship student organizations on campus.
Student Services & Resources (continued)

**Computer-Aided Engineering Network (CAEN)**
1315 Duderstadt Center
(734) 764-CAEN
caan.engin.umich.edu

CAEN provides the College of Engineering with the computing environments for engineering-related research and education. CAEN computer labs offer a multitude of information resources and software programs.

**Counseling and Psychological Services (CAPS)**
3100 Michigan Union
or
145B Chrysler Center
(734) 764-8312
caps.umich.edu

Get confidential help with personal issues. Services include: personal counseling, workshops and consultation services.

**Engineering Advising Center (EAC)**
230 Chrysler Center
(734) 647-7106
advising.engin.umich.edu

The EAC assists first-year students in their transition from high school to the rigorous academic demands of engineering programs. Advisors help students develop a course of study and explore options in engineering.

**Engineering Career Resource Center (ECRC)**
230 Chrysler Center
(734) 647-7160
career.engin.umich.edu

The ECRC provides information on summer internships, co-op opportunities, and part-time and permanent engineering employment. Some of their services include: on-campus recruitment, interviews, career and job search information, and resume assistance.

**Engineering Learning Center (ELC)**
273 Chrysler Center
(734) 615-8438
elc.engin.umich.edu

The ELC is a resource for academic support for engineering students. The ELC offers a 24-hour study area with CAEN-supported computers and offers a variety of academic support services including peer tutoring, Supplemental Instruction sessions for selected first and second-year courses, academic skill development, workshops on topics such as time management and study skills, and practice exam sessions. Staff of the ELC are also available for individual consultation on matters related to academic skill development.

**Engineering Scholarship Office (ESO)**
143 Chrysler Center
(734) 647-7113
scholarships.engin.umich.edu

The ESO offers a range of scholarship opportunities for undergraduates, including endowed scholarships and gifts from industry sponsors. The minimum qualification is a 3.0 cumulative GPA, but other criteria may apply. Check the ESO website for information on criteria and application procedures.

**English Language Institute (ELI)**
555 South Forest Avenue
(734) 764-2413
www.lsa.umich.edu/eli

The ELI offers a range of courses for international students and entering students whose native language is not English.
Student Services & Resources (continued)

International Center
1500 Student Activities Building
(734) 764-9310
www.internationalcenter.umich.edu
The Center provides a variety of services to international students. The services include helping students understand tax regulations, apply for immigration and benefits, cope with adjustment difficulties, make friends and integrate into the campus community.

International Programs in Engineering (IPE)
245 Chrysler Center
(734) 647-7129
ipe.engin.umich.edu
The IPE Office offers semester, academic year and summer study-abroad programs to engineering students for technical, language and cultural training. International internship programs are also available.

Multi-Ethnic Student Affairs (MESA)
2202 Michigan Union
(734) 763-9044
mesa.umich.edu
MESA advises multicultural students and organizations, and helps plan events and activities on campus.

Office of New Student Programs (ONSP)
1100 LSA Building
(734) 764-6413
onsp.umich.edu
The ONSP is comprised of the Office of Orientation, the University Mentorship Program and the Welcome to Michigan Program.

Office of Recruitment and Admissions (ORA)
153 Chrysler Center
(734) 647-7101
www.engin.umich.edu/college/admissions
The ORA recruits and facilitates the admission of first-year and transfer students to the College of Engineering, and evaluates transfer credits.

Office of the Registrar for Undergraduate Students
145A Chrysler Center
(734) 647-7111/(734) 647-7117
engineering-ro@umich.edu
(students please include your first and last name and UM ID number in an email)
Undergraduate Student Record Maintenance: Processing completed Add/Drop/Modify forms; Registration Issues; Process Joint Degree Applications (CoE and other UM Colleges/Schools); Cross-Campus Transfer to LSA (Moving Course Elections); Time Extension for Incomplete Grades; Term Withdrawals; CoE Advising Report/Senior Audit Bulletin: Undergraduate Academic Rules/Policies; Degree Requirements; Degree Honors; Course Descriptions by Subject Dean’s Honor List by Term

Office of Financial Aid (OFA)
2500 Student Activities Building, Central Campus
B430 Pierpont Common, North Campus
(734) 763-6600
www.finaid.umich.edu
The OFA provides processing and advising for student financial aid.
Student Services & Resources (continued)

Office of Student Affairs (OSA)
143 Chrysler Center
(734) 647-7118
studentaffairs.engin.umich.edu
The OSA enhances and supports the academic mission of the College of Engineering and the University. Students are encouraged to visit the Office as the “first stop” for the College Registrar, Honor Council, Personal Crisis Support and Student Leadership and Activities.

Office of Student Support and Accountability (OSSA)
129 Chrysler Center
734-615-1405
wellness.engin.umich.edu
The Office of Student Support and Accountability serves the College of Engineering community as the primary resource for students of concern and crisis intervention. We provide a confidential and holistic approach to supporting students with academic and personal concerns. We hope to help the student overcome their concerns and resume their effective coping techniques to continue successfully with their academic career.

Services for Students with Disabilities (SSD)
G-664 Haven Hall
(734) 763-3000 (voice)
(734) 615-4461 (TDD)
(734) 619-6661 (VP)
ssd.umich.edu
The SSD provides services to students with visual, hearing or mobility impairments, or learning disabilities. This office also works with students who have chronic health problems or psychological disabilities.

Sexual Assault Prevention and Awareness Center (SAPAC)
2450 North Quad
(734) 764-7771
Counseling Crisis Line
(734) 936-3333
sapac.umich.edu
SAPAC provides individual and group counseling for survivors of sexual assault, dating/domestic violence, stalking, and sexual harassment.

Spectrum Center
3200 Michigan Union
(734) 763-4186
spectrumcenter.umich.edu
The Spectrum Center provides a range of education, information and advocacy services to create and maintain an open, safe and inclusive environment for lesbian, gay, bisexual, transgender and similarly identified students, faculty, staff, their friends and families, and the community.

University Health Service (UHS)
207 Fletcher Street
(734) 764-8320
www.uhs.umich.edu
The UHS offers comprehensive outpatient medical services to all students, faculty, staff and dependents. The office is committed to helping students stay healthy while accommodating their demanding schedules.
Personal Safety

Crime does occur at the University of Michigan, but you can reduce your chances of becoming a victim by following these simple tips and using your common sense.

- Walk with a friend or use S.A.F.E.WALK.
- Avoid secluded, poorly lit, and isolated areas.
- Look assertive and be aware of your surroundings.
- Don’t use headphones or talk on the phone in public; both reduce your awareness of your surroundings.
- Trust your instincts. If a situation makes you feel uncomfortable, choose an alternative.
- Think about the safest route to take.
- Consider carrying a whistle or hand-held alarm.
- Be aware of the location of the Blue Emergency phones as you walk across campus.
- Keep keys accessible and ready to use when approaching your building or vehicle.
- Lock your residence hall room or apartment.

In addition to the U-M bus system and taxis, the University of Michigan and the City of Ann Arbor provide several alternatives to walking alone at night from campus to your residence.

Department of Public Safety (DPS)
109 E. Madison St.
police.umich.edu
Police, Fire, and Medical emergencies: dial 9-1-1
Non-emergencies: (734) 763-1131 or text 377911

Emergency Ride Home
(734) 763-1131 (DPS)
Free taxi rides can be provided in emergency situations for faculty, staff and students to return to their vehicle parked in remote lots or to any location (home, school, daycare provider, etc.). The service is available 24 hours a day, 7 days a week. Use of the program is limited to six times per permit year.

Night Ride
(734) 647-8000 (select Option 3)
www.theride.org/nightride.asp
Night Ride is run by the Ann Arbor Transportation Authority (AATA) and is a subsidized, low-cost, shared nighttime cab service that travels within the Ann Arbor city limits. Night Ride is available on holidays and the night before a holiday.

Paratransit
(734) 763-3000
Paratransit is a scheduled door-to-door service for students, faculty, and staff with permanent or temporary disabilities.

Ride Home
(734) 647-8000 (select Option 2)
Ride Home is a free taxi service that provides transportation from the Shapiro Undergraduate Library on Central Campus or from the Duderstadt Center on North Campus to your residence. Please note you must show the driver your valid U-M ID.

S.A.F.E.WALK
(734) 647-8000 (select Option 1)
S.A.F.E.WALK is a campus accompaniment service that functions as an alternative to walking alone on campus at night. Coordinated by staff at the DPS, S.A.F.E.WALK escorts are free of charge and available to all members of the University community.

SafeRide
(734) 647-8000
studentlife.umich.edu/studentsupport/dos/late-night-ride
SafeRide is a free service that transports students, faculty, and staff to their residence or vehicle within a one-mile radius of campus. Riders may use this service once per evening and must present a valid U-M ID.

State Street Ride
(734) 547-2222
Free after-hours taxi service from any U-M building to the South State Street Commuter (Park & Ride) lot after buses have concluded daily service.

#UmichEngin19
#UmichEngin19
Bus routes and schedules change periodically.

For current bus schedules go to

http://pts.umich.edu/transit/routes.php
North Campus Map

Bus routes and schedules change periodically.
For current bus schedules go to
http://pts.umich.edu/transit/routes.php
### Time Management Schedule

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Calculate time per week spent on each activity
From all the staff of the Engineering Advising Center, we wish you the best in your first year and look forward to seeing you at Welcome Day on Friday, September 11 from 1-3 pm!

The EAC should be the first place you go to find information on resources and opportunities at the University of Michigan.

Please refer to our website for links to important information:

advising.engin.umich.edu