MichiganEngineering

First-Year Student Handbook
2008-2009










Name: _____

Date: _____

ABOUT MICHIGAN ENGINEERING

For students excited about the potential of technology, there's no better place to learn and explore than the University of Michigan College of Engineering. Michigan Engineering offers a rare combination: quality engineering scholarship, a broad scope of college and university opportunities, and large-scale impact.

Michigan Engineers learn how to apply the latest developments in technological thinking to the world's major problems. Students learn about and can participate in pioneering research in a variety of disciplines. The College's faculty is composed of scholars who are among the best in their fields, including more than two dozen NSF Career Award recipients and 21 current or emeritus faculty members of the National Academy of Engineering.

With 11 departments, interdisciplinary programs, student team projects and more than 75 liberal arts minors to choose from, the College offers future engineers an unparalleled range of opportunities. As a result, students leave Michigan prepared for leadership roles in traditional engineering functions as well as in business, medicine, law and teaching.

The College makes a practical difference in society. The College's Office of Technology Transfer and Commercialization transfers technologies to market for the benefit of the public. Each year, students participate in some 60 College societies plus community organizations that improve the quality of life for thousands of adults and children.

2008-09 ACADEMIC CALENDAR

FALL TERM 2008

Registration *(for students not pre-registered)*	August 29
Labor Day *(Holiday)*	Sept 1
Classes Begin	Sept 2
Drop/Add Dates *(without "W")*	Sept 2 - Sept 22
Online Registration Ends	Sept 24
Drop/Add Dates *(with "W" + Advisor's + Instructor's approval)*	Sept 23 - Nov 7
Fall Study Break	Oct 20 - 21
Pass/Fail Election Deadline	Nov 7
Drop/Add Dates *(with "W" + Instructor's signature, Advisor's + SSC approval)*	Nov 8 - beyond
Thanksgiving Recess *(5 p.m.)*	Nov 26
Classes Resume *(8 a.m.)*	Dec 1
Classes End	Dec 9
Study Day	Dec 10
Examinations	Dec 11 - 12, 15 - 18
Commencement	Dec 14

WINTER TERM 2009

Registration *(for students not pre-registered)*	Jan 5
Classes Begin	Jan 7
Martin Luther King, Jr. Birthday *(University Symposia, No Regular Classes)*	Jan 19
Drop/Add Dates *(without "W")*	Jan 7 - Jan 27
Spring Break Begins *(Noon)*	Feb 21
Classes Resume *(8 a.m.)*	Mar 2
Drop/Add Dates *(with "W" + Advisor's + Instructor's approval)*	Jan 28 - Mar 18
Pass/Fail Election Deadline	Mar 18
Drop/Add Dates *(with "W"+ Advisor's + SSC approval)*	Mar 19 - beyond
University Honors Convocation	Mar 15
Classes End	Apr 21
Study Day	Apr 22
Examinations	Apr 23 - 24, 27 - 30
Commencement Activities	May 1 - 3

University of Michigan

College of Engineering

First-Year Student Handbook 2008-09

Contents

Welcome Letter **3**
College of Engineering Honor Code **7**
Advising Sessions **8**
When to see an EAC Advisor 8
Student Responsibilities 8
Engineering Advising Center **8**
Engineering Advising Center Staff 9
Engineering Faculty Advisors 9
Engineering Peer Advisors 10
Welcome Day **11**
University of Michigan Engineering Council 11
Planning Your First Year **13**
First-Year Course Selections 13
Tips for First-Year Students 14
One-Year Academic Plan 15
First-Year Student Checklist 16
FAQ: Selecting Classes 17
Preparation for Pre-Registration Advising 17
Engineering Core Courses 19
Humanities and Social Sciences 27
Foreign Languages 28
Advanced Placement, A-Level, International Baccalaureate and Transfer Credit 29
Advanced Placement Credit 30
Course Registration Information **33**
Drop/Add Schedule 34
Pass/Fail Schedule 35
Academic-Year Advising—Setting Education and Career Goals 37
ROTC First-Year Courses 37
Declaring an Engineering Major **41**
Engineering Degree Programs' Websites 41
Guiding You in the Right Direction 42
Engineering Program Advisors 45
Academic and Personal Support **47**
Student Success 51
Academic Resource Help 51
Academic Progress Tracking Form 49
Student Services and Resources 51
Useful Websites **53**
Personal Safety **55**
Useful College of Engineering Numbers **56**
Useful University Numbers **57**
Central Campus **58**
North Campus Bus Stops **59**
Index **60**



Dear First-Year Engineering Student:

Welcome to the University of Michigan College of Engineering.

You are at the start of an exciting period of your life. You are here because you are driven to understand the technologies that make our society possible, and you want to create the new technologies that are going to make human life better. Engineering is an enterprise driven by people. It begins with the recognition of human needs, proceeds with the analysis of those needs, and continues through the definition and construction of technological artifacts to address them. This is the creative, humanistic activity in which you have chosen to participate during your years at Michigan, and in your career beyond.

You are not alone in your pursuit. Over 1200 other students, each unique and in some way exceptional, are starting their educational careers with you. They are a great resource, as are the other undergraduate and graduate students already here. Your success in engineering will be enhanced by your interactions with your fellow students and friends, even while you remain responsible for your own individual learning and growth. At your disposal is also a faculty of more than 300 professors who are here at Michigan because they enjoy working with you. Be sure you take full advantage of this great resource. Remember also that while your University of Michigan education will be sown in the lecture halls, it will ripen beyond those classroom walls. You must awaken your passions not only through your studies, but also through the many additional activities that enrich our community. Within this First-Year Handbook you also will learn of the many dedicated academic advisors who are determined to help you achieve. No university student can succeed fully without advice, and in the College of Engineering every student needs to work with his or her advisor to navigate the rich stream of courses, programs and opportunities that flow through North Campus.

The pursuit of an engineering degree is incredibly fun. As you grow intellectually during your education you will be challenged, you will experience emotional highs and lows, you will do more hard work than you believe possible today, and you will accomplish more than you dream.

James Paul Holloway
Associate Dean for Undergraduate Education
Arthur F. Thurnau Professor
June 1, 2008

First-Year

All references to the College of Engineering *Bulletin* in this Handbook are to the 2008-2009 online College of Engineering Bulletin.
www.engin.umich.edu/bulletin

June 1, 2008

Our Mission Statement

The Engineering Advising Center (EAC) supports first-year students in their transition from high school to the rigorous academic demands of the College of Engineering (CoE). The EAC fosters success by assisting students in the development of their educational plans, career goals and personal decision-making. The programs and services are designed to inform, support and encourage individuals to be self-directed in their educational planning process.

Students

Engineering Advising Center
230 Chrysler Center
2121 Bonisteel Blvd.
Ann Arbor, MI 48109-2092
(734) 647-7106
(734) 647-7126 fax
www.engin.umich.edu/students/advising

Mercedes G. Barcia
Director
Engineering Advising Center
Scholastic Standing
barciamg@umich.edu

Angie Farrehi
Academic Advisor
Critical Incident Coordinator
afarrehi@umich.edu

Kelsey Gross
Academic Advisor
kebben@umich.edu

Kurt C. Hill
Academic Advisor
Interdisciplinary Program Advisor
kchill@umich.edu

Shawn Salata
Academic Advisor
CoE Peer Mentoring Program
Coordinator
ssalata@umich.edu

Rachel Flaten
Student Services Assistant
rachelfk@umich.edu



College of Engineering Honor Code

In 1915, students in the College of Engineering realized that as professionals, they would be trusted to act with integrity for the benefit of themselves, their colleagues and society. With this in mind, they created an Honor Code, and formed a student-run Honor Council. This proud tradition continues today. The Honor Code is based on the principle that members of the Engineering community are honest and trustworthy people. Therefore, the Honor Code does not exist to identify cheating, but to encourage ethics and integrity. For over 90 years, the College of Engineering has been built upon the principles of community, trust, integrity and personal responsibility.

As a new member of the College of Engineering community, you will discover that you are given a great deal of trust and responsibility. Your instructors and fellow students have faith that you will act as an honest and trustworthy person and you will be treated as such. Exams are usually unproctored because your instructors trust that you will act honorably and professionally. Therefore, it is your responsibility to understand and abide by University regulations, such as lab policies and individual course policies. Read your course syllabi carefully, and ask your instructors if you have questions about specific policies.

When an Honor Code violation accusation is made, the case is reviewed by the Engineering Honor Council, a group of students who provide fair peer hearings under the Honor Code. This means the student will not be accused and punished without the opportunity for a defense. Rather, a group of students will investigate the accusation, collect all available evidence and offer a recommendation to the faculty. It is not always easy to consider carefully the consequences of your actions and make the right decisions. However, the sense of pride you will have in yourself and your community, the trust you will build with your co-workers, and the reputation you will develop as a person of integrity will make it well worth the effort. We hope that you will become familiar with and take pride in the Engineering Honor Code, not only applying its ideals of personal integrity here in the College of Engineering, but also in your career and professional life after you graduate. To view the complete Honor Code, please see our web page at ***http://www.engin.umich.edu/students/honorcode/*** or e-mail the Honor Council with questions at enghonor@umich.edu.

Submitted by: Engineering Honor Council

The Honor Code is based on these tenets:

- Engineers must possess personal integrity, both as students and as professionals. They must ensure safety, health, fairness and the proper use of available resources in their work.
- Members of the College of Engineering community are honorable and trustworthy persons.
- The students, faculty members and administrators of the College of Engineering trust each other to uphold the principles of the Honor Code. They are jointly responsible for precautions against violations of its policies.
- It is dishonorable for students to receive credit for work that it is not the result of their own efforts.

Engineering Advising Center

Your First-Year Headquarters

The Engineering Advising Center (EAC) welcomes you to the College of Engineering (CoE). This First-Year Student Handbook provides information on subjects of immediate concern to new students in the CoE. Please read the entire handbook carefully and keep it readily available for reference.

Academic advising and counseling are available to you throughout the year. We have a wide range of advisors, including staff, faculty and peer advisors. Our staff advisors are trained to help first-year and undeclared engineering students understand the College's requirements, policies and procedures. Our faculty advisors will help you explore your engineering options. Finally, our peer advisors are knowledgeable engineering students who can share their valuable student perspectives on life in the College of Engineering.

To ensure a successful first-year experience, **you must meet with EAC advisors every term to:**

- Schedule Fall, Winter, Spring and Summer courses
- Understand degree requirements
- Clarify policies and procedures
- Drop or add classes
- Monitor your progress toward a degree
- Share personal concerns
- Discuss academic problems
- Review study and time-management skills
- Obtain information about tutoring services
- Discuss taking courses at another college
- Verify AP, A-Levels, IB and transfer credits
- Explore career options
- Consider study abroad or work overseas
- Help you accomplish your goals

Note: As an Engineering student, you must go to the Engineering Advising Center for academic advising, NOT the LSA Advising Center.

See an EAC Advisor When You:

- Are preparing to register each term
- Need help to plan your curriculum
- Are developing your four-year plan
- Feel overwhelmed by your studies
- Need someone to confide in
- Need help resolving your problems
- Want someone who will listen
- Fail an exam
- Find yourself procrastinating or unmotivated
- Need a tutor for one of your classes
- Have difficulty adjusting to the campus and the work load
- Are having trouble handling your newfound freedom and responsibilities
- Want to review your academic progress
- Want to discuss your career options
- Have something exciting to share

Student's Responsibilities:

- Keep in touch with the EAC advisors
- Make and keep scheduled advising appointments
- Prepare questions for your advising appointment
- Contact the Engineering or LSA departments about overrides into classes
- Be honest and open concerning class work, study habits and academic progress, so your advisor can make an accurate assessment regarding your education
- Review your class schedule and make a list of class selections prior to the appointment
- Ask for help when you need it
- Keep track of your current grade in each class

"The College of Engineering is a great place to be! Just be willing to do the work and don't be afraid to ask for help."

– First-Year Student

Engineering Advising Center Staff



From left:
Kurt Hill, Rachel Flaten,
Shawn Salata, Kelsey Gross,
Angie Farrehi, Mechy Barcia,

Mercedes G. Barcia is the director of the Engineering Advising Center. "Mechy," as she likes to be called, has been at the University of Michigan for many years helping students successfully achieve their goals and objectives. As the director of the EAC, her immediate responsibility is to make sure that the Center helps first-year students in their transition from high school to college and to choose their Engineering degree programs.

Kelsey Gross is an academic advisor in the EAC. She received her master's degree from Miami University in 2006, and worked in career services before joining the EAC team. Her background in career counseling allows her to help first-year and undeclared students make informed decisions about major and career paths. She enjoys working with CoE students to create a satisfying and engaging college experience.

Angie Farrehi is an academic advisor/counselor in the EAC. She also provides crisis intervention for students as the CoE critical incident coordinator. Angie is an alumnus of the U of M, and has recently returned from Philadelphia where she worked as a therapist and an instructor in psychology. Angie enjoys interacting with students and helping them deal with both personal and academic issues.

Kurt C. Hill is an academic advisor in the EAC. Kurt has been in the field of student advising for over seventeen years. His background in admissions, recruiting, academic advising and co-op placement, in addition to his participation in the University's LeaderShape®Institute and Mentorship Program, are some of his many strengths and interests.

Shawn Salata is an academic advisor in the EAC and the coordinator of the CoE Peer Mentoring Program. She brings over sixteen years of student affairs experience to the College and its students. Shawn enjoys the one-on-one contact with students through the advising process, and helping them adjust to the new demands of college life. She is particularly interested in leadership development, helping students get connected on campus and supporting their career exploration.

Rachel Flaten is a student services assistant at the EAC. She graduated from Eastern Michigan University with a bachelor of science degree in 2003. Her previous position in the Registrar's Office gives her a unique perspective on the challenges faced by University of Michigan students throughout their academic careers. She is interested in helping students have a positive and enriching college experience.

Engineering Faculty Advisors

There are ten Engineering faculty advisors who meet with students in the EAC. These advisors are a committed group of professors from the CoE degree programs. They are knowledgeable, patient and interested in helping students attain their academic and career goals in Engineering.

Engineering Peer Advisors


Mikey Chung


Jon Francis


Tony Martus


Dustin Meldrum


Jordan Raetz


Stephanie Roth


Michael Shi


Ryan Weigold

Mikey Chung is a sophomore from Dearborn, MI, majoring in Chemical Engineering. He is active in Alpha Delta Phi and Alpha Chi Sigma- the professional chemistry fraternity. He is involved with Greek Life and various environmental groups around campus. He enjoys playing the guitar, playing tennis and spending time with friends.

Jon Francis is a senior from Rochester Hills, MI, majoring in Aerospace engineering. In his free time he enjoys playing a variety of sports with his friends including soccer, basketball and ultimate Frisbee. Jon also likes to dabble in electronics, including computer hardware repair.

Tony Martus is a sophomore from Oxford, MI, majoring in Chemical Engineering. He is a member of the American Institute of Chemical Engineers and Triangle fraternity. He enjoys playing various sports and volunteering in the Ann Arbor area.

Dustin Meldrum is a junior from St. Clair Shores, MI, majoring in Chemical Engineering. He is an active member of AIChE and Alpha Chi Sigma- the professional chemistry fraternity. In his ever-disappearing free time he enjoys cooking, miscellaneous quasi-engineering projects, and people-watching.

Jordan Raetz is a senior from Rochester Hills, MI, majoring in Computer Science who hopes to go to grad school in California to work in robotics research. He is also a member of the Sigma Phi Society, a writer for the UMEC All-Nighter and enjoys running and playing music.

Stephanie Roth is a sophomore from Rochester Hills, MI, majoring in Electrical Engineering who hopes to do research and development of robotic prosthetics and/or multi-vehicle autonomous obstacle avoidance. She is also a member of the Society of Women Engineers, SAE and M-Fly Design Team. She enjoys sports and biking.

Michael Shi is a junior from Troy, MI, majoring in Industrial and Operations Engineering. He actively participates in his church and is part of an audio visual team. He enjoys ultimate frisbee and basketball. He spends a lot of time outdoors and when it's raining he catches up on naps.

Ryan Weigold is a senior from St. John's, Michigan, majoring in Chemical Engineering. He is a member of the American Institute of Chemical Engineers (AIChE), and enjoys music and sports, especially football and basketball

Welcome Day and UMEC

The Engineering **Welcome Day festivities on August 29, 2008,** will introduce you to other first-year students and the rest of the Engineering community. This day gives students the opportunity to learn about the College of Engineering (CoE) through student Q&A panels, student organization booths and a North Campus scavenger hunt. Welcome Day is the beginning of a life-long membership in a new community. In addition, UMEC will host an ice-cream social on Welcome Day to welcome first-year students.

Stay tuned for details about Welcome Day. In the meantime, if you have any questions about Welcome Day, contact the Engineering Advising Center at (734) 647-7106.

The University of Michigan Engineering Council (UMEC)

The University of Michigan Engineering Coucil (UMEC) would like to welcome the Engineering Class of 2012! UMEC is the student government for the College of Engineering (CoE), and coordinates many College-wide events throughout the school year to create community in the CoE. We are divided into committees that do various things in the College. By joining a committee you will be exposed to many different people, responsibilities and opportunities. Voice your opinion on issues facing engineering students, as well as get involved on campus. Some of the events UMEC plans for the College include Tech Day, North Campus Service Day and Springfest. UMEC also sponsors the Ice Cream Social on CoE Welcome Day.

UMEC is a fun way to take a leadership role and make a difference in the College of Engineering. For more information, check out *www.umeconline.com.* GOBLUE!

For more information contact:
UMEC
2233 EECS
phone: 764-8511 fax: 615-6047
email: umec.exec@umich.edu
website: *www.umec.engin.umich.edu*



?Questions

Frequently Asked Questions

It has been our experience that a student starting at the CoE will have many questions. Sections of frequently-asked questions are distributed throughout this handbook to assist you. If you still have questions, feel free to contact us at the Engineering Advising Center. Stop in the office at 230 Chrysler Center, call us at (734) 647-7106 or e-mail eac_advising@umich.edu

&Answers!



Going to college is a full-time job. As a full-time student, you will spend at least 40-50 hours per week in class, doing homework and studying.

Planning Your First Year

The Engineering Advising Center (EAC) offers walk-in service and appointments throughout the entire year for general questions, advising and counseling. Sign up for an appointment online: ***www.engin.umich.edu/students/advising***

All first-year and undeclared Engineering students must meet with an academic advisor each term to discuss future plans and academic goals, and also for approval of the following term's course schedule.

It is your responsibility to know and understand the policies, rules, procedures and degree requirements of the College of Engineering. All College policies are listed in the Engineering Bulletin *http://www.engin.umich.edu/students/bulletin*. Make sure to bookmark this website for your reference. Any questions concerning College policies should be addressed to your EAC advisor.

While most of your first year courses will be taught in the College of Literature, Science, and the Arts (LSA), you will need to go to the Engineering Advising Center for advising regarding courses and academic/non-academic issues.

Note: As a student in the CoE, you are subject to CoE policies, rules, procedures and degree requirements. Other U-M Colleges have different policies so if you address your questions to people outside of the CoE, you may be misinformed.

First-Year Course Selections

Students will end up with different course schedules for the first year because of variations in preparation, course enrollment limits, time conflicts and personal interests. In terms of progress toward graduation, no single scheduling option has advantages over other options. Your advisor will help you determine the course selections best suited for you.

Factors that may influence your first semester schedule include:

- High-school and advanced-placement records: At the time of your orientation advising session, all of your high-school, AP, A-Levels, IB and transfer credits from other institutions may not yet be available. Make sure that your advisor is aware of all information regarding these credits.
- Personal information, such as health problems, participation in intercollegiate athletics, housing, personal issues, pledging a fraternity or sorority, other extracurricular activities and part-time employment.

It is *your responsibility* to share all of this information with your EAC advisor before finalizing your course schedule. Any changes in test scores or transfer credits will affect your final course selection and need to be discussed with your advisor.

This information can help determine the number of credits best suited for your first term. In order to be a full-time student, a minimum of 12 credits is required.

Listen carefully to the advice and recommendations of your advisor.

Note: Recommended number of credit hours for first-term students is 13-16 credit hours.

Tips for first-year students

• Visit the EAC Advising Website:
www.engin.umich.edu/students/advising

• Strategies for Academic Success

– Plan your class schedule carefully and do not overload.

– Class attendance does correlate with your grade. GO TO CLASS

– Take good notes.

– Take ten minutes before each class to review your notes from the previous class and the pertinent chapter in your textbook.

– Take ten minutes after each class to "fix up" and review your notes.

– Attend instructor office hours. Ask questions!

– Ask for help when you need it.

• Time Commitments for First-Year Courses

– Engineering 100 and 101 are both time-intensive courses. Plan to spend two to three hours each day on these courses.

– Courses with labs, like chemistry and physics, are also time-consuming.



• Manage Your Time

– Set goals for yourself, both academic and personal.

– Use a day-planner: make a daily to-do list and keep track of important information.

– Mark your planner! It's up to you to remember due dates for assignments, and test dates and times. Write down deadlines for pass/fail and drop/add.

– Establish a routine time to study for each class.

– For every hour that you are in class, plan to study a minimum of two hours outside class. (Example: 15 credit hrs. equals at least 30 hours of study time.)

– Use breaks between classes to study and work on assignments. Study every day!

• Study Tips

– Do not procrastinate. Don't fall behind in your studies!

– Use instructor office hours. They enjoy working with you.

– Location, location, location . . .find a place that is relatively free of distractions, including cell phones, instant messenger, television, video games, etc.

– Find at least one or two students in each class with whom you can study.

– Join formal and informal study groups.

– Break large or overwhelming tasks into smaller manageable steps.

– Make use of academic resources on campus: Math Lab, Physics Help Room, Science Learning Center, Engineering Learning Resource Center (ELRC).

– Reward yourself for completing tasks. Note what you have accomplished even if an entire project is not complete.

• Balancing Your Life

– Build some time for fun and relaxation into your schedule.

– Get energized and take care of yourself – eat, exercise, sleep.

– Get involved! Join an organization, intramural sports, community service, etc.

– Watch out for credit card debt.

– MAINTAIN A POSITIVE ATTITUDE, be a good listener, stick to your own convictions and strive for your dreams!

Remember:

– Keep track of your progress in all of your classes (see p. 48), calculate and monitor your GPA. This could influence your ability to declare an engineering major and your eligibility for internships, scholarships and graduate school.

– Ask for help when you need it.

–Speak with an EAC Peer Advisor; this person is a valuable resource.

– Check your email daily for important information about University policies and deadlines.

– Don't take policy advice from other students; always check with the EAC.

– Be responsible for your own education.

– Use available resources to succeed.

One-Year Academic Plan

Fall 2008

Dept	Course #	Course Title	Credits
		Total	

Winter 2009

Dept	Course #	Course Title	Credits
		Total	

Spring 2009

Dept	Course #	Course Title	Credits
		Total	

Summer 2009

Dept	Course #	Course Title	Credits
		Total	

First-Year Student Checklist

- ☐ Update your campus address (where you'll receive important mail while school is in session). Do this on the web at ***wolverineaccess.umich.edu*** under student business.
- ☐ Check that all AP, IB, A-Levels and transfer credits from other institutions are reflected on your academic record (check your unofficial transcript on Wolverine Access). If not, make sure to follow up with your advisor.
- ☐ Visit the Advising website: ***www.engin.umich.edu/students/advising*** to make appointments with your EAC Advisor or Faculty Advisor, and get information, news and updates.
- ☐ Check the EAC website ***www.engin.umich.edu/students/advising*** for frequently-asked questions, or email eac_advising@umich.edu
- ☐ Meet with your advisor early and often:
  1. Make your advising appointment online ***www.engin.umich.edu/students/advising***.
  2. Create an academic plan that will allow you to discover and pursue your academic interests and achieve your goals.
  3. Learn about course options, degree requirements, and University policies and procedures.
  4. Discuss your semester progress and plan next semester's classes.
  5. Learn better study habits and time management skills to avoid academic difficulty.
  6. Decide on a career that best fits your skills, interests and future goals.
  7. Learn about resources available throughout the University.
- ☐ Visit the Engineering Career Resource Center and register on HireME (Hire Michigan Engineers). Check the website: ***http://career.engin.umich.edu*** or stop by 230 Chrysler Center.



Pre-Registration Advising

Your career at the College of Engineering is your education, and you should be involved in planning it.

- Make an appointment to meet with an EAC advisor every term. ***www.engin.umich.edu/students/advising***
- If you are unsure about certain requirements, prepare questions for your meeting with the advisor.
- Before your advising session, develop and prepare a list of courses and several alternate courses that you would like to take.
- Your Engineering Peer Advisor will review your schedule with you before you meet with an academic advisor.

Note: Do not hesitate to ask an advisor if you have any questions. EAC advisors and peer advisors are here to assist you in navigating your way through the CoE.



Selecting Classes

Q *What are some easy, no-brainer, sleep-through-class-and-still-get-an-A courses?*

A To the best of our knowledge, there are none.

Q *What is a typical course load for first-year students?*

A A course load of 13-16 credits is recommended for each term. Your advisor will help you choose the course selections best suited for you. 12 credits is considered full time.

Q *Do I have to take an Economics class?*

A Economics is required for Civil, Mechanical, Chemical, Materials Science, and Interdisciplinary Engineering. We do not recommend taking this course in your first term due to its fast-paced schedule.

Q *Is a foreign language course required for a degree in Engineering?*

A No, Engineering does not require a foreign language, but knowledge of a second language is encouraged. Some foreign language credits can apply towards your humanities or unrestricted electives credit.



Engineering Core Courses

The College of Engineering has 15 undergraduate degree programs. All 15 programs require a common set of core courses. In most cases, your first-year course selections will consist of courses from the common core.

	Core Credit Hours
Introduction to Engineering Engineering 100	4 credit hours
Introduction to Computers and Programming Engineering 101	4 credit hours
Math 115, 116, 215, and 216 or Honors Math (IOE requires Math 214 instead of Math 216)	16 credit hours
Chemistry 130/125/126 or 210/211	5 credit hours
Physics 140/141 and 240/241	10 credit hours
Humanities and Social Sciences	16 credit hours

Important Notes:
If you have a satisfactory score or grade in Chemistry AP, A-Level, IB Exams or transfer credit from another institution for Chemistry 130, 125/126 you will have met the Chemistry Core Requirement for CoE.

If you have a satisfactory score or grade in Physics AP, A-Level, IB Exams or transfer credit from another institution for Physics 140/141 and 240/241 you will have met the Physics Core Requirement for CoE.

If you have a satisfactory score on the AP AB exam, A-Level, IB Exams or transfer credit with a satisfactory grade from another institution for Engineering 101 you will have met the Engineering 101 Core Requirement for CoE.

Engineering 100
Engineering 101

Q *Do I have to take the Engineering 100 and Engineering 101 courses in my first year?*

A Yes, Engineering 100 and Engineering 101 are required for all CoE students and must be taken in the first year. You must receive a grade of "C-" or better. If your grade is below a "C-" you must retake the class. For EECS degree programs, a grade of "C" is required.

Q *My older brother said I can take English 125 instead of Engineering 100. Is this true?*

A No. The course content is completely different. English 125 is a composition course that is required for students enrolled in the College of LSA. Engineering 100 is required for students in the College of Engineering, and includes engineering design and technical writing components.

Q *Do I have to take Engineering 100, even though I am considering transferring to LSA?*

A Yes. Engineering 100 is an introduction to engineering. This course must be elected by all first-year Engineering students. If you are considering transferring out of Engineering, meet with an EAC advisor to discuss your academic options.

Engineering 100

Engineering 100: Introduction to Engineering familiarizes students with the professional skills required of engineers, and provides them with an overview of engineering at the beginning of their program. An important component of the course is a real-world engineering project.

Important engineering skills developed in Engineering 100 include:

- Qualitative, project-based work in an engineering discipline
- Written, oral, and visual communication skills
- Team building and teamwork
- Ethical concerns in the engineering profession
- The role of engineers in society
- Environmental and quality concerns in the engineering profession

Note: Engineering 100 is required for all CoE students and must be taken in the first year. You must receive a grade of "C-" or better in Engineering 100. If your grade is below a "C-" you must retake the class. For EECS degree programs, a grade of "C" is required.



"Organizing the curriculum around a single engineering project really helped me to see the whole process and all the steps that go into it. Also, there's a lot of fun and celebration when it's over and you've done really well."

– First-Year Student

Engineering 101

Engineering 101: Introduction to Computers and Programming introduces students to the algorithmic method that drives the information age. Algorithms are an organized means to construct the solution of a problem, structured as a well-defined set of steps that can be carried out by a mechanism such as a computer.

Engineering 101 focuses on the development of algorithms to solve problems of relevance in engineering practice, and on the implementation of these algorithms using high-level computer languages. It is centered on quantitative and numerical problems that are suited to computational solutions, which often arise as part of larger, more complex problems in engineering practice.

Engineering 101 is tied to the introductory physics and math courses, and provides concrete examples of some of the concepts being covered in those classes. Sample problem types might include:

- Finding area and volume
- Simulating statistical processes
- Data analysis
- Physical simulation
- Simulating complex systems with simple rules
- Minimization and optimization
- Logic puzzles



In addition to the problem-solving component, students who take Engineering 101 will learn aspects of the C++ programming language and be exposed to the MATLAB programming language. C++ is used today in many fields of engineering. MATLAB is also popular and has powerful capabilities for handling computation involving matrices, and for visualizing data using 2-D and 3-D graphics. It will be useful in future math and engineering courses.

Students entering Engineering 101 are NOT expected to know how to program; this skill will be taught as part of the class. Visit the Engineering 101 website: ***http://www-eng101.engin.umich.edu/*** for detailed information on specific sections of the class. You can receive credit for Engineering 101 with a score of 4 or above on the AP AB Computer Science exam or if you have transfer credit from another institution for an equivalent course.

Note: Engineering 101 is required for all CoE students and must be taken in the first year. You must receive a grade of "C-" or better in Engineering 101. If your grade is below a "C-", you must retake the class. For EECS degree programs, a grade of "C" is required.

Mathematics

Q *Is there a recommended calculator for math classes?*

A A high-end graphing calculator is now required for all sections of Math 105, Math 115, and Math 116. The TI-83 is strongly recommended, and will be used by the math instructors for all in-class examples. Students who buy a different, more powerful calculator will be responsible for downloading their own programs.

Q *I took Calculus I in high school. Can I start in Calculus II my first term at U-M?*

A No, you will need to start in Calculus I, unless you took the Math AP exam and received a score of 4 or above, or have transfer credit from another institution.

Q *Who should take Honors Math courses?*

A Students who are strong in math and have taken AP math classes in high school, and have a strong desire for deeper understanding should consider taking the Honors math sequences.

Q *What are the Honors Math sequences?*

A Honors math has two math sequences: The theoretical sequence includes: Math 185, 186, 285, and 286, which is equivalent to Math 115, 116, 215, and 216. The applied sequence includes: Math 156, 255, and 256, which is equivalent to Math 116, 215, and 216.

Mathematics

Every student admitted to the College of Engineering has demonstrated a high level of interest and competence in mathematics. Your advisor will suggest an appropriate beginning course based on your ACT or SAT scores, the U-M Math Placement Examination scores, your high-school math background, AP, A-levels, or IB exam scores and math transfer credits from another institution. In addition, a Math Advisor is available for consultation during orientation.

Note: If you have taken a Math Advanced Placement, A-levels or IB Examination, or have math transfer credit from another institution, it is your responsibility to inform your EAC advisor. You will lose the Math Advanced Placement, A-levels, IB or transfer credits if you select an equivalent course. In other words, you cannot get credit for the same math course twice.



Math Placement Exam Recommendations

The purpose of the online U-M Math Placement Examination is to determine your placement into either Math 105 (Data, Functions and Graphs) or Math 115 (Calculus). The **Math Placement Examination is not a Math AP Exam, nor does it specify which calculus class should be taken** if a student is ready for upper-level calculus. **The math placement result does not grant credits toward a degree program.**

Math 105, Data, Functions, and Graphs
Math 105 is a preparatory course for the U-M calculus sequence. Students who complete it successfully are fully prepared for work in calculus. The recommended placement into Math 105 is based primarily on the U-M Math Placement test score, but math placement recommendations also reflect SAT math scores and high school grade point average. A math advisor will be available during orientation to discuss your placement into Math 105. Math 105 credits do not count toward degree credit in the College of Engineering.

Recommendations into Math 105:

(M1) Definite 105: Chance of success in U-M calculus is weak. Recommendation for students in this category is definite. They should be placed into Math 105 or another precalculus course. The expected grade in Math 115 for these students would be D or less.

(M2) Tentative 105: Chance of success in calculus is uncertain but tending toward weak. Almost all students in this category should be placed into Math 105 or another precalculus course. The expected grade for students in this category in Math 115 would be D+.

Math 115, Calculus I
Math 115 is the first course in calculus at U-M. The recommended placement into Math 115 is based primarily on your U-M Math Placement test score, but math placement recommendations also reflect SAT math scores and high-school grade point average. It presents the concepts of calculus from geometric, numerical, and algebraic points of view. Another introductory calculus course is 185 (an honors course). Students with AP credit for Math 115 should consider taking second-term calculus courses or Honors Math 156.

Recommendations into Math 115:

(M3) Tentative 115: Chance of success in calculus is uncertain but tending toward positive. Students in this category would benefit most from consultation with the mathematics placement advisor. The expected grade in Math 115 for these students is C- or C.

(M4) Definite 115: Chance of success in calculus is strong. Recommendation for these students is definite. They should be placed into Math 115 or another calculus course. The expected grade in Math 115 for students in this category is at least C+.

Success in U-M Calculus Course

Math is the best predictor of success in engineering. Proficiency in calculus is needed in every engineering degree program. **To continue to the next math course in the sequence, you should receive at least a grade of C in your current course.** If you fail to obtain a C in a math class, you should not take the next course in the math sequence until you have successfully completed the prior course. Make an appointment with your academic advisor if you are not doing well in a class.

Note: The College of Engineering requires four semesters of math to fulfill the math core requirement. NO exceptions will be granted.

Chemistry

Q *If I took a chemistry lab in high school, do I still have to take a lab class with Chemistry 130? My friends in LSA don't.*

A You are required to take the Chemistry lab 125/126 to fulfill the Engineering chemistry core requirement. The College of Engineering does not accept high-school chemistry lab experience. The exception is if you received a score of 5 on your AP Chemistry exam.

Q *I will be taking Chemistry 130 in the Fall Term and Chemistry 210/211 in the Winter Term. Do I also have to take Chemistry 125/126?*

A No, you do not have to take Chemistry 125/126 (labs) if you are planning to take Chem 210/211 in the Winter Term because Chem 211 will fulfill the one Chemistry lab requirement for the CoE.

Q *I am taking Chemistry 210/211. Will this fulfill my chemistry lab requirement?*

A Yes, the Chemistry 211 (lab) will fulfill your lab requirement for Engineering.

Q *I placed into Chemistry 210 on the Chemistry Placement exam. Will I receive credit for Chemistry 130?*

A No, you do not receive college credit for the U-M Chemistry Placement Exam.

Chemistry

Depending on your U-M Chemistry Placement Examination score, you will be eligible to take either Chemistry 130/125/126 or Chemistry 210/211.

Note: If you have a satisfactory score or grade in the Chemistry AP, A-Level, IB Exams or transfer credit from another institution, you will have met the chemistry core requirement for the CoE. (See page 31 for AP equivalencies.)

Enrollment limits may not permit all first-year students to take chemistry in the Fall Term. Those who do not take chemistry in the Fall Term will take it in the Winter Term.

Note: All CoE students are required to take a minimum of one semester of chemistry lab, regardless of whether they had one in high school, unless they received a score of "5" on the AP Chemistry Exam, received A-Levels or IB credit, or have transfer credit from another institution.

Chemistry Placement Exam

The purpose of the Chemistry Placement Examination, given during orientation, is to determine your placement into either Chem 130/125/126 or 210/211. It is not a chemistry AP exam. **The Chemistry placement exam does not grant credits toward a program.**

Note: CoE students who placed into Chemistry 210/211 will not be given credit for Chemistry 130.

The U-M Chemistry Placement Examination taken during orientation ***will not place*** you out of the chemistry lab. The only way to place out of one semester of chemistry lab is to achieve a score of at least 5 on the Chemistry AP exam, receive A-Levels or IB credit, or have transfer credit from another college or institution.

Note: Biomedical Engineering, Chemical Engineering and Materials Science and Engineering departments require Chemistry 210/211 in addition to more advanced chemistry courses. If you intend to go into one of these programs or plan to take additional chemistry, inform your advisor.

Chemistry Placement Exam Recommendations

Chemistry 130 (General Chemistry): Macroscopic Investigations and Reaction Principles provides an introduction to the fundamental principles of modern chemistry. Your recommended placement into Chem 130 is based primarily on your score on U-M's Chemistry Placement test, but chemistry placements are also influenced by scores on mathematics tests (e.g., the U-M math placement test and the SAT math). Those who register for Chem 130 should also register for Chem 125 and 126 (General and Inorganic Chemistry Lab I & II). Chem 125/126 are guided-inquiry laboratories that help students develop skills needed for designing, analyzing, and interpreting experiments. Completing a chemistry lab in high school does not exempt you from taking the Chem 125/126 labs.

Students who register for Chem 130 (3 credits) should also register for Chem 125/126 (2 credits). **Note:** Chemistry 130/125/126 are recommended to be taken together in the same term, but not required.

Chemistry 130, Section 400 is reserved for students who would benefit from a smaller lecture section and more frequent contact with both senior faculty and teaching assistants.

Chemistry 210 *(Structure and Reactivity I)* is the first course in a two-term sequence in which the major concepts of chemistry are introduced in the context of organic chemistry. Students who enroll in Chem 210 (4 credits) must also enroll concurrently in Chem 211 (1 credit) (Investigations in Chemistry), a laboratory introduction to inorganic and organic chemistry. Your recommended placement into Chem 210/211 is based on your scores on chemistry and mathematics tests. Only those students with the strongest backgrounds in chemistry and math, and who are planning on a major that requires organic chemistry are advised to register for Chem 210/211.

Note: Those students who placed into Chemistry 130 and need to continue in chemistry must elect Chemistry 130 in the Fall Term. The Chemistry lab requirement will be fulfilled with Chem 211, the concurrent lab with 210.

Physics

Physics 140/141 and 240/241 are CoE core requirements and are required for all engineering students. The physics courses are calculus-based; therfore, students must have completed Calculus I or have received AP, A-Level, IB, or transfer credit to select Physics 140 and 141 in the Fall Term. Physics 140 discusses classical mechanics while Physics 240 covers electricity and magnetism.

Physics 140 (Physics 160 Honors) is the first of a two-course sequence presenting the fundamental concepts of physics. Physics 140 (four credits) covers topics such as linear and projectile motion, relative velocity and acceleration, Newton's Laws, work, energy, torque, planetary motion and simple harmonic motion. This course should be taken with Physics 141 (one credit), the concurrent lab.

Physics 240 (Physics 260 Honors) is the second course in the physics sequence. Physics 240 (four credits) covers classical electricity and magnetism. Topics covered include charge, Coulomb's Law, electric fields, Gauss' Law, electric potential, capacitors, current, resistance, circuits, magnetic fields, Ampere's Law and electromagnetic waves. This course should be taken with Physics 241 (one credit), the concurrent lab.

Note: If you have a satisfactory score or grade in Physics AP, A-Level, IB Exams, or transfer credit from another institution for Physics 140/141 and 240/241, you will have met the Physics Core Requirement for the CoE.



Honors-Level Courses

The Honors Program in LSA offers students opportunities to complete challenging work from the beginning of their college education. Honors sections are identified on Wolverine Access as Honors courses. To elect Honors courses, you must have the permission of the LSA Honors Program, 1330 Mason Hall, Central Campus, (734) 764-6274.

Honors Math: Students with strong preparation and a strong desire for deeper understanding of mathematics are encouraged to consider the Honors-level math sequence. Qualified and interested students should consult their Engineering Advising Center advisor. It is not necessary to be in an Honors program to enroll in the Honors-level math courses.

Math Honors sequences:
Math 156, 255, 256 - Applied Calculus sequence
Math 185, 186, 285, 286- Theoretical sequence

Note: Engineering Advising Center advisors can grant permission for Honors Math courses by providing you with an electronic override during orientation only.

Honors Physics: Students with strong preparation in mathematics and interest in physics are encouraged to consider the Honors-level physics sequence. Qualified and interested students should consult their Engineering Advising Center advisor. It is not necessary to be in an Honors program to enroll in the Physics Honors courses.

Physics Honors sequence:
Physics 160/161, 260/261.

Humanities and Social Sciences

The Humanities and Social Science Requirement offers a variety of academic choices for all students working toward an undergraduate Engineering degree. It is designed to provide students with social, cultural, political and economic background crucial to fulfilling the College of Engineering's purpose of "preparing our graduates to begin a lifetime of technical and professional creativity and leadership in their chosen field."

To provide a breadth of education, each program in the College identifies a certain number of credit hours of elective courses (a minimum of 16) concerned with cultures and relationships — generally identified as humanities and social sciences. Students are encouraged to select a cluster theme for their humanities/social science electives. This is a unifying theme (such as psychology, economics or history) that focuses the student's HU/SS electives.

Note: All engineering students are required to complete 16 credits of humanities/social sciences, distributed according to the list below.

Requirements

I) Humanities (**6 credit hours**): At least two courses totaling at least 6 credit hours.

II) Sequence of humanities or social science courses (**6 credit hours**): A sequence of at least two courses in the same humanities or social science department totaling six or more credit hours, at least one of which must be an upper level (numbered 300 or above). This requirement may, of course, overlap requirement I.

III) The remaining credit hours may be satisfied with elective courses in either humanities or social sciences.



Humanities/ Social Sciences

Q *What are the rules/requirements for Humanities/Social Sciences courses?*

A You are required to take at least 16 credits of HU/SS courses. Other restrictions may apply. Please refer to the 2008-2009 CoE Bulletin online: ***www.engin.umich.edu/bulletin.***

Q *What is a sequence? How many credits are needed for a HU/SS sequence?*

A A sequence consists of at least two HU or SS courses from the same department. At least one of the courses must be 300-level or higher. Six or more credit hours are required to complete a HU/SS sequence: e.g., History of Art 101 and History of Art 394.

Q *Will a performance course (e.g., music, dance, marching band) count toward my HU/SS requirement?*

A No. Only classes designated with HU or SS in the LSA Course Guide ***(www.lsa.umich.edu/cg)***, or that follow the CoE designation of HU or SS ***(see page 28)*** will count toward this requirement. Check the course designation.

Note: *Although they do not count as HU/SS, you CAN count up to 3 performance credits toward your degree program as General Electives. See your advisor for more information.*



Humanities and Social Sciences Requirements (continued)

Definitions and Exceptions:

These requirements can often be satisfied by a number of courses from the College of Literature Science, and the Arts (LSA), or in part by advanced placement, A-Levels, IB credit or courses taken at another university. For purposes of this College of Engineering requirement, a course is defined as a humanities or social science as follows:

1) Any course that is designated as "HU" or "SS" by the College of Literature, Science and Arts meets this requirement as humanities or a social science, respectively.

2) Language courses, those designated as "LR," are counted as humanities. However, advanced placement, A-Levels, IB or U-M language placement credit for language courses at the 100 level and below are not to be used to satisfy this requirement. These may be counted instead as General Electives.

3) Courses that are designated as "BS," "CE," "MSA," "NS," "QR," "experiential," "directed reading or independent study," or course titles that include the terms or partial phrases "composition," "conversations," "intro composition," "math," "outreach," "performance," "physics," "practice," "practicum," "statistics," "studio" or "tutor" may not be used to satisfy this requirement.

4) For the purposes of this requirement, courses not covered by items 1, 2 and 3 above will be defined as humanities courses if they are offered by the following departments or divisions:

- American Culture
- Architecture (non-studio)
- Art (non-studio)
- Classical Archaeology
- Classical Studies
- Comparative Literature
- Dance (non-performance)
- Film and Video Studies
- Great Books
- History of Art
- Asian, English, Germanic, Romance (French, Italian, Portuguese, Spanish) and Slavic Language and Literatures
- Music (non-performance)
- Music History and Musicology
- Philosophy
- Religion
- Theatre and Drama (non-performance)

Similarly, courses not covered by items 1, 2 & 3 above will be defined as social sciences if they are offered by the following departments:

- Afro-American and African Studies
- Cultural Anthropology
- Communication Studies
- Armenian, Judaic, Latin American and Caribbean Studies, Latina/Latino, Middle Eastern and North African, Native American, Near Eastern, Russian and East European Studies
- Economics
- History
- Linguistics
- Political Science
- Psychology
- Sociology
- Women's Studies

Note: Courses designated as Humanities (HU) or Social Sciences (SS) can be found in the LSA Course Description Guide, which gives descriptions of the courses and any prerequisites. **www.lsa.umich.edu/cg**

Foreign Languages

The U-M Foreign Language Placement Examinations are given during orientation in French, Spanish, German, Latin, Hebrew and Russian.

Any student is eligible take an examination in a foreign language regardless of how they developed their skills. The exam must have listening and written components. If you miss the test, ask your advisor when the next testing session will take place. Students interested in taking other language examinations should contact the individual language department.

Language Credit by U-M Examination or by Advanced Placement A-Levels and IB examination will be granted up to a maximum of eight credit hours.

Humanities credit by exam will be given for second-year or higher foreign language courses. Credit by exam for 100-level courses cannot be used to satisfy the humanities requirement, but can be used as general electives. If students take any foreign language course (100 levels included) at a college or university, they may count it for humanities credit.

Asian Language Placement Credit
http://www.lsa.umich.edu/asian/

The Department of Asian Languages and Cultures administers two language exams:

For Chinese and Japanese

- **Language Placement Exam**
  This exam is given to students who are planning on taking an Asian language course at U-M and require their course placement. This exam does not provide certification of language proficiency and language credit is not rewarded.
- **Certified Second-Language Proficiency Exam**
  This exam is given once a year. A registration fee is required for Chinese. The Japanese Proficiency exam does not have a fee. Asian language credit will be awarded according to the results of this exam.

For All Other Asian Languages

- The placement and proficiency exams are the same and are used to award credit for Asian Languages.

For more information, please contact:
Department of Asian Languages and Cultures
Suite 611
202 S. Thayer St.
Ann Arbor, MI 48104-1608
(734) 764-8286

Note: Students may not receive foreign-language credit by examination above the 2nd-year level.

Advanced Placement, A-Level, International Baccalaureate and Transfer Credit

The College of Engineering accepts credit earned either by receiving a satisfactory score on an AP, A-Level or IB examination or by transferring credit from an accredited university or college, including community colleges or junior colleges. Transfer credits used to fulfill your high school requirements, or college classes taken at your high school cannot be counted toward your U-M degree.

Note: If you earned college transfer credits while you were in high school that did not count toward your high school diploma, you need to send a letter from your high-school counselor. The letter needs to indicate that the college credits were not counted toward high school graduation requirements. Please send the letter to the Recruitment and Admissions Office.

Students also need to send college transcripts in order to receive transfer credit. Send all documents to:

Recruitment and Admissions Office
1108 Robert H. Lurie Engineering Center
1221 Beal Avenue
Ann Arbor, MI 48109-2102
(734) 647-7101

Students who have taken the AP, A-Levels, or IB examinations need to have the examination scores sent to:

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

The scores or grades you received for these courses or examinations may not be posted to your U-M record during your orientation and registration session. It is ***your responsibility*** to inform the Engineering Advising Center or the Recruitment and Admissions Office if your AP, A-Level, IB, or transfer credit evaluation is incorrect or missing.

Note: If you do not receive the satisfactory scores or grades you planned on, inform your EAC advisor. You will need to revise your course schedule accordingly as you will not receive credit for the courses involved.

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. You will need satisfactory scores or course grades to be awarded credits. The credits will be awarded by U-M only after scores and grades are received and reviewed. All questions about A-Level and IB credits should be referred to the University of Michigan Admissions Office.

Advanced Placement

Q *I took the AP Math AB Exam and told my advisor I thought I had gotten a score of 4 or better. I just learned I scored only a 3. Can I still start in Math 116, since I took the AP Calculus class in high school?*

A No, you will need to drop Math 116 and add Math 115 to your schedule. You can drop/add your Math courses online at: *http://wolverineaccess.umich.edu/* until the third week of the term; after that you will need to see your EAC advisor.

Q *I took the AP English and Composition Exam in high school. Can this fulfill my English writing requirement?*

A The College of Engineering does not have an English writing requirement. The first Engineering course, Introduction to Engineering, has a technical writing component in addition to engineering principles. All students are required to take this class during their first year.

Q *I took the AP Computer Science A or AB exam. Does this fulfill the requirement for computer programming in the College of Engineering?*

A A score of 4 or 5 on your AP CS A exam will give you EECS 285 credits, which will count towards your general elective credits but will not fulfill your Engineering 101 requirement. The AP CS AB exam will fulfill your Engineering 101 requirement if you receive a score of 4 or 5 on the exam.

Math and Physics

Students who receive satisfactory scores on the Math and/or Physics AP, A-Levels, or IB examinations, or have transfer credit from another college will be able to select the next course in the math/physics sequence.

Note: You will lose AP, A-Level, IB or transfer credit if you select an equivalent course. In other words, you cannot get credit for the same course twice.

AP Credit Acceptance

The table on the opposite page shows the AP credits accepted by the College of Engineering. Any questions regarding the examination, scores or results should be directed to the Advanced Placement Program.
www.collegeboard.org/ap/students/index.html

By Mail:
Advanced Placement Program
P.O. Box 6671
Princeton, NJ 08541-6671

By Telephone:
Dial: (609) 771-7300 or (888) 225-5427
Fax: (609) 530-0482
TTY: (609) 882-4118 (for the hearing impaired)

By Computer:
E-mail: apexams@info.collegeboard.org

Note: AP Exams can be taken only in high school.

Advanced Placement Credit

Course Registration Information

Subjects	AP Exams	Scores		Equivalency	Credits
Government	Amer. Gov. & Politcs	3 or above		Pol. Sci. 111	4 SS
	Comp. Gov. & Politcs	3 or above		Pol. Sci. 140	4 SS
Biology	Biological Sciences	3		Biology 100	4
	Biological Sciences	4 or 5		Biology 195	5
Chemistry	Chemistry	4		Chemistry 130	3
		5		Chem. 125/126, 130	5
Economics	Microeconomics	4 or 5		Econ 101	4 SS
	Macroeconomics	4 or 5		Econ 102	4 SS
Computer Science	A	4 or 5		EECS 285	2
	AB	4		EECS 285, Engr. 101	6
	AB	5		EECS 285, Engr. 101	6
			OR	Engr 101, EECS 280 with CS advisor approval	8
English	Language and Comp.	4 or 5		English Comp.	Dept. 3 GE
	Literature	4 or 5		English Lit.	3 HU
French	Language	4 or 5		French 235	3 GE
	Literature	4 or 5		French 270	4 HU
German	Language	4 or 5		German 231, 232	8 HU
	Literature	4 or 5		German 232, 325	8 HU
History	American	4 or 5		100 level History	4 SS
	European	4 or 5		100 level History	4 SS
	World	4 or 5		100 level History	4 SS
Latin	Vergil	4 or 5		200 Level Latin	4 HU
	Latin Literature	4 or 5		200 Level Latin	4 HU
Mathematics	Math AB	4 or 5		Math 120 (115)	4
	Math BC	4		Math 120 (115)	4
	Math BC	5		Math 120, 121 (115, 116)	8
College of Engineering does not accept Math subscores.					
Physics	Physics C Mechanics	5		Physics 140, 141	5
	Physics C Electricity & Magnetism	5		Physics 240, 241	5
Spanish	Language	4 or 5		Spanish 275	3 GE
	Literature	4 or 5		Spanish 373	3 HU
Statistics	Statistics	4 or 5		Statistics Dept.	4

If your test is not listed, refer to: ***www.admissions.umich.edu/academics/apguidelines.html***
Exams not listed under College of Engineering will be given credit under LSA guidelines.

For IB credit refer to: ***www.admissions.umich.edu/academics/guidelines.html***

Drop/Add

Q *When should I consider dropping a class?*

A First, you should keep track of your performance on your quizzes, papers and exams. (See Academic Progress Tracking Form, p. 48.) If your quizzes or exams are below the C range, we highly recommend that you:

1. Discuss the option of dropping the course with your instructor.
2. Meet with an EAC advisor to discuss your options and how to proceed with your academic plan.
3. Most important, know the College of Engineering drop/add deadline dates, see **p. 34**.

Q *Will a "W" look bad on a transcript?*

A Having one or two withdrawals on a transcript can be expected. A "W" means that the student dropped the course after the third week of a full term and that the College approved the drop. However, a pattern of dropping courses late into the term is not encouraged.



Course Registration Information

Wolverine Access

http://wolverineaccess.umich.edu

This website allows students to register for classes and access university-related information such as:

- Course offerings
- Personal information
- Enrollment appointment
- Course availability
- Current class schedule
- Grades
- Unofficial transcripts
- Financial information

Registration

Each term the Registrar's Office will notify you via email to check for your enrollment appointment on **http://wolverineaccess.umich.edu/**.
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. After your advising session, backpack your class choices and prepare alternate schedules in the event that a class is full on your registration date.

**Remember that classes at the University actually 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 available for you to get in to the class:

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

Changing Course Selections

(Dropping and Adding Courses)

After you have registered, any changes to the courses or sections in your schedule can be made on Wolverine Access through the first three weeks of the term. Up to that point, all drops will be processed without a "W" (Withdrawal) on your transcript. After the third week, drops will result in a "W" and the schedule and process is as follows:

- After the third week and before the ninth week, you must fill out a drop/add form at the EAC (1009 LEC) and obtain signatures from both your advisor and instructor.
- After the ninth week you must fill out a Late Drop petition and submit it to the Scholastic Standing Committee along with documentation of extenuating circumstances (1009 LEC). Late Drops are rarely approved. Only the most serious circumstances warrant dropping a class after the ninth week of the term. This means some non-academic, extraordinary event (like a serious illness or severe personal disruption) must have occured after the ninth week drop deadline of the term (four and a half weeks of a half term) AND that would make completion of the course very difficult or impossible. For the petition to be considered, all circumstances must be fully documented, including such items as a physician's statement and instructor's statement.

http://www.engin.umich.edu/students/scholasticstanding/latedrop.html

**Poor performance does not constitute an extenuating circumstance.

See page 34 for specific dates.

If your coursework is below the C range it is imperative that you speak to both your instructor and your EAC advisor to explore and understand your options, which may include the possibility of dropping the course.

Note: Not attending classes does not automatically disenroll or withdraw you from the entire term. Once you have registered for courses you must meet with an EAC Advisor to withdraw from the term.

Pass/Fail Option

A maximum of 14 credit hours in Humanities, Social Sciences, and general electives can be elected pass/fail. A grade of C- through A+ is considered satisfactory and will be recorded as "P" (Pass). A grade of "D+" or lower in a course is considered unsatisfactory and will be recorded as "F" (Fail).

You may select this option when you register for classes at the start of the term and switch from pass/fail to graded, or from graded to pass/fail anytime during the first nine weeks of the full term.

Drop/Add Schedule Fall and Winter Term, 2008–2009

Start of Term Through Week 3—
Fall Term: Sept. 2 – Sept. 22 / **Winter Term:** Jan. 7 – Jan. 27

Note: To add/drop courses during the first three weeks, use Wolverine Access. ***(http://wolverineaccess.umich.edu/)***. During this time ALL drops are processed without a "W" on the transcript.

After the third week you can no longer use Wolverine Access to make any changes to your schedule

Week 4 Through Week 9—
Fall Term: Sept. 23 – Nov. 7 / **Winter Term:** Jan. 28 – March 18

1. Obtain a Drop/Add form from the Engineering Advising Center, 1009 LEC.
2. Fill out a Drop/Add Form.
3. Obtain signature of course instructor.
4. Obtain signature of your EAC Advisor.
5. Submit the Drop/Add Form to the Engineering Records Office, 1401 LEC.

Note: During this time ALL drops are processed **with** a **"W"** on the transcript. (W=Withdrawn from class)

Week 10 Through End of Term—
Fall Term: Nov. 8 – Dec. 9 / **Winter Term:** March 19 – April 21

Late Drop Petition is needed.
http://www.engin.umich.edu/students/scholasticstanding/petitions.html

1. Fill out the Drop petition – available online at: http://www.engin.umich.edu/students/scholasticstanding/petitions.html.
2. Meet with your EAC Advisor to discuss your late drop.
3. Obtain signature of course instructor.
4. Obtain signature of your EAC Advisor.
5. Submit the petition to the Scholastic Standing Committee in 1009 LEC with **documentation of extenuating circumstances.**

All petitioned drop requests will be reviewed by the Scholastic Standing Committee. Only the most serious circumstances warrant dropping a class after the ninth week of the term. This means some non-academic, extraordinary event (like a serious illness or severe personal disruption) must have occurred after the ninth week drop deadline of the term (four and a half weeks of a half term) AND that would make completion of the course very difficult or impossible for the petition to be considered. All circumstances must be fully documented, including such items as a physician's statement and instructor's statement.

Note: Be aware that poor performance does not constitute an extenuating circumstance.

Pass/Fail Schedule Fall and Winter Term, 2008–2009

Start of Term Through Week 3—

Fall Term: Sept. 2 – Sept. 22 /
Winter Term: Jan. 7 – Jan. 27

To pass/fail courses during the first three weeks, use http://wolverineaccess.umich.edu

After the third week you can no longer use Wolverine Access to make any changes to your schedule.



Week 4 Through Week 9—

Fall Term: Sept. 23 – Nov. 7 /
Winter Term: Jan. 28 – March 18

1. Obtain a Drop/Add form from the Engineering Advising Center, 1009 LEC.
2. Fill out the P/F Modifier section of the Drop/Add Form.
3. Obtain your EAC Advisor's signature.
4. Submit the the Form to the Engineering Records Office, 1401 LEC.



Note: The instructor does not sign your Pass/Fail form.

Week 10 Through End of Term—

Fall Term: Nov. 8 – Dec. 9 /
Winter Term: March 19 – April 21

No changes in P/F modifiers can be made after the 9th week of a full term.

No changes • No exceptions

Please refer to the 2008-2009 CoE Bulletin online: ***www.engin.umich.edu/bulletin*** for additional information.

Pass/Fail

Q *What classes can I elect Pass/Fail (P/F)?*

A Any Humanities, Social Sciences or general electives may be selected on a pass/fail basis. For limitations, please refer to the 2008-2009 CoE Bulletin online: ***www.engin.umich.edu/bulletin.***

Q *How many classes can I elect Pass/Fail?*

A The Pass/Fail total is not to exceed four courses or 14 credit hours, and is limited to two courses per term or one in the Spring half term or Summer half term.

Q *Can I elect an engineering course Pass/Fail if I am transferring out of engineering?*

A Engineering courses can be taken pass/fail if you are no longer seeking an Engineering degree. You should consult an advisor before you make a pass/fail selection for a class.

Q *What is the deadline for pass/fail?*

A The Fall '08 deadline to change a course to pass/fail is: November 7, 2008. The Winter '09 deadline to change a course to pass/fail is: March 18, 2009.



Academic-Year Advising—Setting Education and Career Goals

It is essential for first-year students to see an academic advisor at the Engineering Advising Center (EAC) prior to registration for Fall and Winter Terms. Students can begin to schedule advising appointments in October to discuss courses for Winter Term. You should schedule an appointment as soon as possible to discuss your educational plans and review your course selections. To schedule an appointment, go to the EAC website:
www.engin.umich.edu/students/advising/



Class registration for Winter Term will start in early December. You will need to check *wolverineaccess.umich.edu* for the date and time of your online registration appointment.

The EAC publishes a monthly *Advising Matters* newsletter full of information and delivers it to your mailbox, so be on the look-out! The newsletter informs students of important College and University services, such as tutoring, study and time-management workshops, registration deadlines and profiles of the College of Engineering community. Be sure you read all emails and newsletters you receive from the EAC.



The EAC website ***www.engin.umich.edu/students/advising*** also provides information and links to engineering departments and university resources.

ROTC First-Year Courses

Army, Navy and Air Force Officer Education Program courses may be added to any typical first-year class schedule. If you are participating in one of these programs, be sure to inform your EAC advisor, and review your Engineering four-year plan of study.

Air Force Officer Education Course Listings:
AERO 101, AERO 102
Navy Officer Education Course Listings:
NAVSCI 101, NAVSCI 102
Army Officer Education Course Listings:
MILSCI 101, MILSCI 102

Minors for Engineering Students

College-Approved Minors in LSA and Engineering

Engineering students have great flexibility to elect courses from other U-M schools and colleges. The CoE allows and encourages students to pursue College-approved LSA minors listed below. Requirements for these minors are available at: http://lsa.umich.edu/lsa/cg/bulletin/chap3/minors/.

In addition, the College of Engineering is offering two new minors in Fall 2008: an **International Minor** and an **Interdisciplinary Design Minor**. You can learn more about the International Minor at http://www.engin.umich.edu/minors/international. See your EAC advisor for more information on the Interdisciplinary Design Minor.

Note: Electing to earn an academic minor is optional. Refer to 2008-2009 College of Engineering Bulletin online: ***www.engin.umich.edu/bulletin for more information.***

The College of Engineering has approved the following LSA minors:

- Afro-American and African Studies
- Anthropology
- Applied Statistics
- Asian Languages and Cultures
- Asian Studies
- Asian/Pacific American Studies
- Astronomy and Astrophysics
- Biological Anthropology
- Biology
- Biophysics
- Classical Archaeology
- Classical Civilization
- Computer Science
- Crime and Justice
- Czech Language, Literature, and Culture
- Early Christian Studies
- Earth Sciences-General
- East European Studies
- Ecology and Evolutionary Biology
- Economics
- Environment
- Environmental Geology
- Epistemology and Philosophy of Science
- French and Francophone Studies
- Geochemistry
- Gender and Health
- Gender, Race and Ethnicity
- German Studies
- Global Change
- Global Media Studies
- Global Transformation
- History
- History of Art
- History of Philosophy
- International Studies
- Italian
- Judaic Studies
- Language, Literature, and Culture of Ancient Greece
- Language, Literature, and Culture of Ancient Rome
- Latin American and Caribbean Studies
- Latina/o Studies
- Lesbian, Gay, Bisexual and Transgender, Queer (LBGTQ) and Sexuality Studies
- Linguistics
- Mathematics
- Medical Anthropology
- Medieval and Early Modern Studies
- Mind and Meaning
- Modern Greek Studies
- Modern Middle Eastern and North African Studies
- Modern Western European Studies
- Moral and Political Philosophy
- Music
- Native American Studies
- Near Eastern Languages and Culture
- Oceanography
- Paleontology
- Philosophy
- Physics
- Plant Biology
- Polish Language, Literature, & Culture
- Political Science
- Russian Language, Literature, & Culture
- Russian Studies
- Scandinavian Studies
- Science, Technology and Society
- Spanish Language, Literature, and Culture
- Statistics
- Text to Performance
- Urban and Community Studies







International Opportunities

The global marketplace demands engineers who are able to combine technical expertise with international understanding. Modern technology has transformed engineering research, design and manufacturing into truly global operations. Today's engineers work in multinational teams and develop products for the world market. How will you prepare for these challenges?

Every year, adventurous CoE students can earn credit toward their U-M degrees while immersing themselves in new cultures and building valuable foreign-language skills. Your first year is the ideal time to begin planning your international experience. The International Programs in Engineering (IPE) office coordinates study abroad programs and student exchanges in over 40 countries. Many of these programs combine courses taught in English with opportunities for intensive foreign language study. IPE also offers the Engineering Global Leadership Honors Program (EGL), and advises students in the International Minor program. Please visit the IPE website for more details: ***www.engin.umich.edu/ipe.***

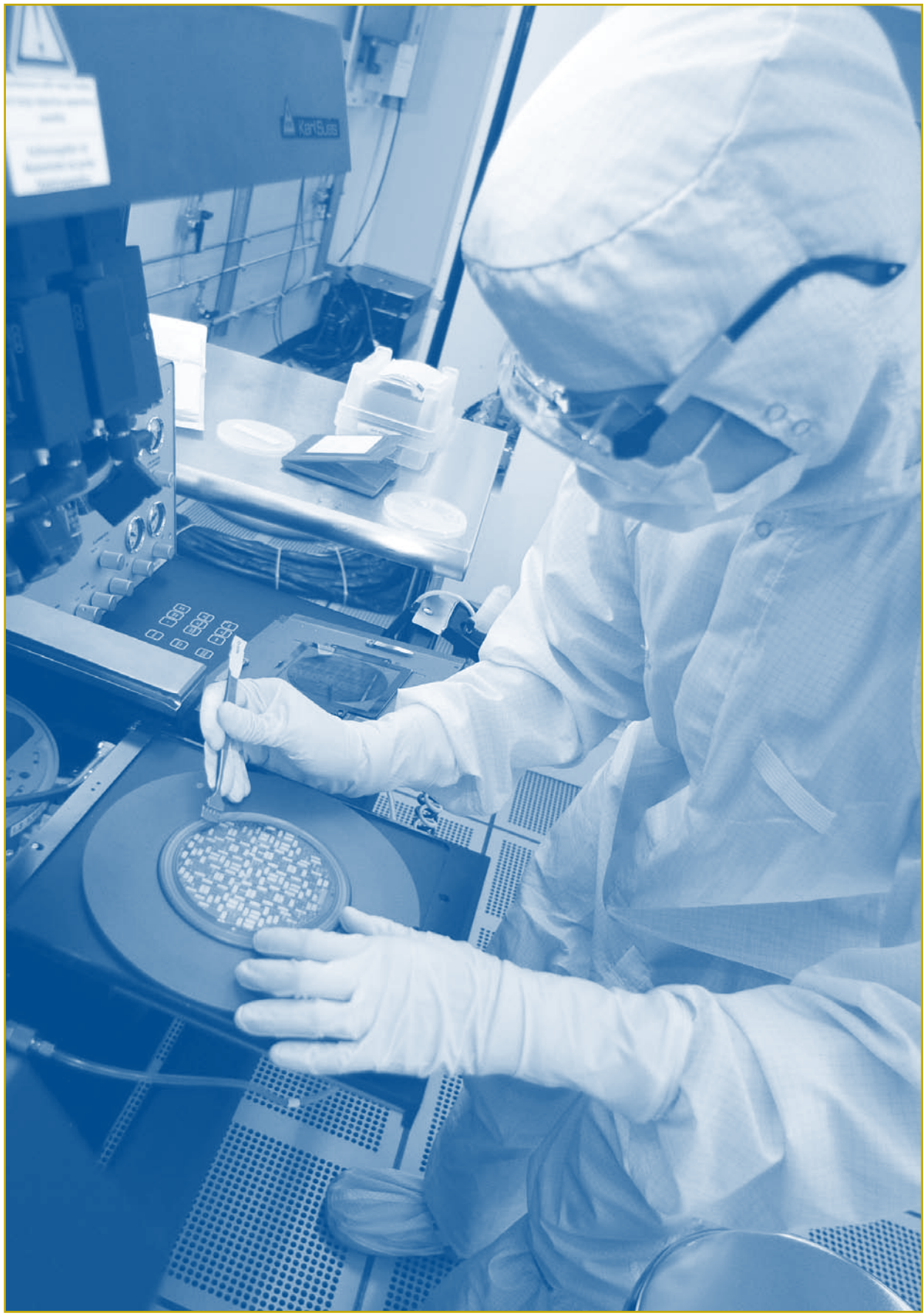
NEW International Minor:
http://www.engin.umich.edu/minors/international

The International Minor for Engineers addresses a core set of skills and experiences that will prepare CoE graduates for the challenges of the global engineering profession:

- Basic proficiency in a language other than English
- 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

For more information visit the International Programs in Engineering website:
http://www.engin.umich.edu/ipe/

International Programs in Engineering
245 Chrysler Center
2121 Bonisteel Blvd.
Ann Arbor, MI 48109-2092



Declaring an Engineering Major

Undecided? Explore Your Options in Engineering

1. Meet with your EAC advisor for help exploring your career options in engineering. ***www.engin.umich.edu/students/advising***
2. Take Engineering 110: The Engineering Profession.
3. Meet with faculty in your areas of interest and visit engineering department websites for information on degree programs and current research. ***www.engin.umich.edu/departments***
4. Visit the Engineering Career Resource Center and explore their website for information on their services and programs (e.g., HireME, Internship fair). ***http://career.engin.umich.edu***
5. Visit the Career Center on Central Campus for career counseling and interest assessments. ***http://careercenter.umich.edu/***
6. Talk to peer advisors and upperclass friends about their majors. Ask about the skills required to be successful, and the types of internships and jobs associated with their field.
7. Join Student Societies and/or participate in Project Teams (e.g., Solar Car, Steel Bridge). ***http://www.engin.umich.edu/students/leadership/***

Declaring an Engineering Major

A first-year student may declare an Engineering degree program as early as their second term in the College of Engineering.

To declare a major, the student must be in good academic standing, have a 2.0 GPA in engineering core courses, and have completed (or be currently enrolled in) Math 115 or 116, Chemistry 130/125/126 or 210/211, Physics 140/141, Engineering 100 and Engineering 101. The Mechanical and Biomedical Engineering departments require that students complete these courses before declaring into the program. For EECS degree programs, a grade of C or better is required in all the engineering core courses.

Note: Some Engineering degree programs have a higher minimum GPA requirement:
Biomedical Engineering - 3.2 GPA
Engineering Physics - 2.8 GPA
Mechanical Engineering - 2.75 GPA

How to Declare

1. Contact the Engineering department of your choice.
2. Request an advising appointment with the department program advisor to discuss declaring. The advisor will review your record to determine whether you meet the GPA and course requirements.
3. Declaration request is accepted or denied.
4. If you are accepted into the degree program, your program advisor will submit your declaration information to the Registrar.

Engineering Degree Program Websites

The College of Engineering has 15 undergraduate degree-granting programs:

- **Aerospace Engineering (AERO)**
  www.engin.umich.edu/dept/aero
- **Atmospheric, Oceanic, and Space Sciences (AOSS)**
  http://aoss.engin.umich.edu
- **Biomedical Engineering (BIOMED)**
  http://www.bme.umich.edu
- **Chemical Engineering (ChE)**
  http://www.engin.umich.edu/dept/cheme
- **Civil and Environmental Engineering (CEE)**
  http://cee.engin.umich.edu/
- **Computer Engineering (CE)**
  http://www.eecs.umich.edu
- **Computer Science (CS)**
  http://www.eecs.umich.edu
- **Electrical Engineering (EE)**
  http://www.eecs.umich.edu
- **Engineering Physics (EP)**
  http://www-ners.engin.umich.edu/undergraduate/physics/
- **Industrial and Operations Engineering (IOE)**
  http://ioe.engin.umich.edu/
- **Interdisciplinary Engineering (IDP)**
- **Materials Science and Engineering (MSE)**
  http://mse.engin.umich.edu
- **Mechanical Engineering (ME)**
  http://me.engin.umich.edu
- **Naval Architecture and Marine Engineering (NAME)**
  http://www.engin.umich.edu/dept/name
- **Nuclear Engineering and Radiological Sciences (NERS)**
  http://www-ners.engin.umich.edu/

To graduate, you must meet the requirements of one of these programs as stated in the CoE Bulletin. It is your responsibility to know the requirements of your degree program.



Guiding You in the Right Direction

The Engineering Advising Center and the Engineering Career Resource Center can help you make an informed decision about an engineering major that best suits your interests and future goals. Our programs provide valuable information to help you assess your skills and interests, choose a major, develop career goals and identify job opportunities. We provide workshops, individual assistance and resource libraries.

If you are unsure what you want to do with your future and need assistance getting started, visit the ECRC and EAC!

Schedule an appointment anytime with an academic advisor at ***www.engin.umich.edu/advising/*** and visit the Engineering Career Resource Center website at ***http://career.engin.umich.edu/***

Career Exploration Checklist

- Connect with a mentor
- Meet with your EAC advisor ***www.engin.umich.edu/advising/***
- Visit the Engineering Career Resource Center ***http://career.engin.umich.edu/***
- Do a self-assessment at the Career Center ***www.careercenter.umich.edu/***
- Research engineering careers
- Discuss curriculum requirements with your EAC advisor
- Schedule meetings with an advisor in your program of interest
- Develop short-term and long-term goals
- Develop/update your resume
- Register for on-campus recruiting
- Apply for and obtain a summer internship or co-op
- Join professional societies and/or student organizations
- Talk with EAC Peer Advisors

Explore Career Options and Set Goals…

There are a number of resources available on the web to help you assess your goals and interests, explore careers, and begin thinking about internship opportunities. The websites below are good places to begin your research. Use search engines to find additional information, and visit the ECRC or your EAC advisor for more ideas about how to gather information on careers.



Key Websites…

- Information on career fields:
  Occupational Outlook Handbook
  http://stats.bls.gov/oco/
  and O*Net Occupational Information Network
  http://online.onetcenter.org/
- Information on careers and majors: My Plan
  www.myplan.com
- Engineering Department websites
  www.engin.umich.edu/departments
- Graduating Engineer Magazine Website
  http://www.graduatingengineer.com/
- Research on companies
  www.hoovers.com and *wetfeet.com*
- HireME, the ECRC Internship Database
  www.career.engin.umich.edu



Setting Goals…

What are your short-term career/life planning goals? (6 to 12 months)

What are your long-term career/life planning goals? (1 to 5 years)

What is the education and training required to reach your goals?

What are some barriers to meeting your goals?

What are your options for dealing with those barriers?



Engineering Program Advisors

Aerospace Engineering (AERO)
3054 FXB Bldg.
www.engin.umich.edu/dept/aero

UNDERGRADUATE STUDENT SERVICES COORDINATOR: Linda Weiss, (734) 764-3310
PROGRAM ADVISOR: Prof. L. Bernal
lpb@umich.edu

Atmospheric, Oceanic and Space Sciences (AOSS)
2207 Space Research Bldg.
http://aoss.engin.umich.edu

STUDENT SERVICES COORDINATORS: Margaret Reid, (734) 936-0482
Sandra Pytlinski, (734) 936-0503
PROGRAM ADVISOR: Prof. P. Samson
samson@umich.edu

Biomedical Engineering (BIOMED)
1111 Gerstacker
www.bme.umich.edu

ACADEMIC ADVISOR: Susan Bitzer, (734) 763-5290
PROGRAM ADVISOR: Dr. R. Schmedlen
shope@umich.edu

Chemical Engineering (ChE)
3090 HH Dow Bldg.
www.engin.umich.edu/dept/cheme

UNDERGRADUATE STUDENT ADMINISTRATIVE ASSISTANT: Christine Moellering, (734) 647-9876
PROGRAM ADVISOR: Dr. S. Montgomery
smontgom@umich.edu

Civil and Environmental Engineering (CEE)
2334 GG Brown Bldg.
www.engin.umich.edu/dept/cee

STUDENT ADMINISTRATIVE ASSISTANT: Linda Nagy, (734) 764-4106
PROGRAM ADVISOR: Prof. R. Michalowski
rlmich@umich.edu

Computer Engineering (CE)
3415 EECS Bldg.
www.eecs.umich.edu

ADVISING COORDINATORS: Shannon Spencer, (734) 763-2305
Anna Cihak, (734) 647-1763
PROGRAM ADVISOR: Dr. M. Brehob
ceadvisr@eecs.umich.edu

Computer Science (CS)
3415 EECS Bldg.
www.eecs.umich.edu

ADVISING COORDINATOR: Anna Cihak, (734) 647-1763
PROGRAM ADVISOR: Dr. M.L. Dorf
cseadvis@eecs.umich.edu

Electrical Engineering (EE)
3415 EECS Bldg.
www.eecs.umich.edu

ADVISING COORDINATOR: Shannon Spencer, (734) 615-5529
PROGRAM ADVISOR: Prof. L. C. McAfee
eeadvisr@eecs.umich.edu

Engineering Physics (EP)
1919 Cooley Bldg.
www-ners.engin.umich.edu/undergraduate/physics/

ACADEMIC ADVISOR: Pam Derry, (734) 936-3130
PROGRAM ADVISOR: Prof. M. Atzmon
atzmon@umich.edu

Industrial and Operations Engineering (IOE)
1603 IOE Bldg.
http://ioe.engin.umich.edu

STUDENT ADVISOR: Wanda Dobberstein, (734) 764-3297
PROGRAM ADVISOR: Prof. Y. Liu
yililiu@umich.edu

Interdisciplinary Engineering (IDP)
1009 LEC Bldg.
PROGRAM ASSISTANT: Sharon Sansoterra, (734) 647-7114
PROGRAM ADVISOR: Kurt Hill
kchill@umich.edu

Materials Science and Engineering (MSE)
2146 HH Dow Bldg.
www.mse.engin.umich.edu

ADVISING COORDINATOR: Patti Vogel, (734) 764-3275
PROGRAM ADVISOR: Prof. R. Robertson
rer@umich.edu

Mechanical Engineering (ME)
2206 GG Brown Bldg.
www.me.engin.umich.edu

STUDENT ADVISOR: Sue Gow, (734) 936-0337
PROGRAM ADVISOR: Prof. D. Dowling
drd@umich.edu

Naval Architecture and Marine Engineering (NAME)
222 NAME Bldg.
www.engin.umich.edu/dept/name

ADVISING COORDINATOR: Kathy Stolaruk, (734) 764-6471
PROGRAM ADVISOR: Prof. M. Bernitsas
michaelb@umich.edu

Nuclear Engineering and Radiological Sciences (NERS)
1919 Cooley Bldg.
www-ners.engin.umich.edu

ACADEMIC ADVISOR: Pam Derry, (734) 936-3130
PROGRAM ADVISOR: Prof. A. Bielajew
bielajew@umich.edu


MICHIGAN
DANCE MARATHON
GO BLUE
WEAR MAIZE
BOISE
MICHIGAN
MICHIGAN

Academic and Personal Support

Student Success

A key component of all engineering students' academic success is knowledge of critical CoE and campus academic resources. In addition to this First-Year 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/students.

Below is a list of more places you can look to find important information about CoE policies and resources.

Information Sources

- ***www.engin.umich.edu/students/advising***
- Course websites
- CoE Office of Recruitment and Admissions
- EAC Peer Advisors
- CoE Peer Mentor
- Engineering department advisors and peer advisors
- E-mail notices
- *Advising Matters* newsletter
- Faculty and GSI announcements in the classroom
- Your classmates
- Residence-hall workshops
- CoE Bulletin

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

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

Start with your EAC advisor. The faculty and staff at Michigan are here because they have a true commitment to education and students' success.

Part of what you learn in college is how to find resources to help you achive your goals. If you do your part, the University will provide you with the tools you need to be successful.

Academic Resource Helps

There are a number of resources available to assist you with your studies, including resource centers and labs, as well as student societies that offer tutoring. Several are listed below.

Aerospace Engineering Library and Learning Center
2060 FXB (734) 764-3310

Engineering Learning Center (ELC)
273 Chrysler Center (734) 647-7127
www.engin.umich.edu/itutor
Practice Exams: Math 105 through 215; Physics 140; Chem 130, Engr 101
Tutoring: Math, Chemistry, Physics, Engr 101
Study Groups: Math 105 through 215; Physics 140; Chem 130, 210
Supplemental Instruction: Engr 101, Physics, Chemistry, and Math

EECS Learning Center
1637 CSE and 1620 CSE
www.eecs.umich.edu/LearningCenter/

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

Math Lab (Math 105-216)
B860 East Hall (734) 936-0160

Mechanical Engineering - Findley Learning Center
2281 GG Brown Bldg. (734) 936-0337

Physics Help Room
1416 Randall Lab (734) 763-7222

Science Learning Center (Chem, Biology and Physics)
1720 Chemistry Bldg. (734) 764-9326

Society of Physics Students
365 West Hall (734) 763-2341

CoE Student Societies Providing Tutoring
www.engin.umich.edu/societies

Alpha Pi Mu (IOE)
Alpha Sigma Mu (MSE)
Chi Epsilon (CEE)
Eta Kappa Nu (EE and CS)
Omega Chi Epsilon (ChE)
Pi Tau Sigma (ME)
Sigma Gamma Tau (AeroE)
Tau Beta Pi (CoE Honor)

Academic Progress Tracking Form

It is imperative that you have an accurate sense of your progress in each class. You are responsible for tracking your grades for each assignment and exam. Review your progress or any errors you may make on your assignments with your Graduate Student Instructor (GSI) or professor. To help you stay "on target," use this Academic Tracking Form.

Don't guess about how you're doing—know how you're doing at all times.
Examinations: **Mid-Term** **Quiz** **HW** = Homework **Paper/Project**
Class Mean = Percentage of Course Grade (i.e., 5%, 10% or 50%)

Course Title _____ Sect No. _____

Instructor_____ email _____

Mid-Term Grade #1 _____ Total Points _____
Class Mean _____ % of course grade = 5, 10, 15, 20, _____

Mid-Term Grade #2 _____ Total Points _____
Class Mean _____ % of course grade = 5, 10, 15, 20, _____

Mid-Term Grade #3 _____ Total Points _____
Class Mean _____ % of course grade = 5, 10, 15, 20, _____
Final _____ % of course grade

Quiz 1 _____
Class Mean _____

Quiz 2 _____
Class Mean _____

Quiz 3 _____
Class Mean _____

Quiz 4 _____
Class Mean _____

Quiz 5 _____

Class Mean _____

Quiz 6 _____
Class Mean _____

HW #1 _____

HW #2 _____

HW #3 _____

HW #4 _____

HW #5 _____

HW #6 _____

HW #7 _____

HW #8 _____

HW #9 _____

HW #10 _____

Paper #1 _____

Paper #2 _____

Lab/Program #1 _____

Lab/Program #2 _____

Lab/Program #3 _____

Lab/Program #4 _____

Lab/Program #5 _____

Reference Resources

Check the Math, Chemistry and Physics departments websites to get copies of old exams.

Engineering Examination File

For copies of old examinations for math, chemistry, physics and Engineering 101 courses, visit the Engineering Learning Center in 273 Chrysler Center.

Schaum's Outline Series

The *Schaum's Outlines* are a series of paperback reference books on many topics, such as calculus, chemistry, numerical analysis and basic engineering courses. The books contain outlines of the concepts covered in your textbooks, and example problems with solutions. They are a good source when you are stuck on a concept or would like extra problems, and are available upon request at the reference desk in the Duderstadt Center Library.



Are Michigan Engineering courses tough? "The College of Engineering is an intellectually challenging place. Make use of its resources; they will serve as good preparation for the real world."

– First-Year Student

Class Help

Q *If I'm having difficulty in a class, whom should I see about getting help?*

A Don't wait until the last minute to get help!

1. Meet with your instructor or GSI to ask for help. Go to office hours.
2. Seek out help from your class study group.
3. Utilize help resources, including the Engineering Learning Center, Math Lab, Science Learning Center and residence hall tutors. See p. 47 for a list of resources, and check out the tutoring website: ***www.engin.umich.edu/itutor***.
4. Meet with your EAC Advisor.
5. Don't be afraid to ask for help.

Study Help

Q *How many hours should I plan for study time?*

A As an Engineering student, you will have a challenging course load. Expect to spend at least 35+ hours a week studying and doing homework.

Q *Where are some good places to study?*

A 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).

Study Spots

Central Campus

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

North Campus

- Duderstadt Center
- GG Brown Blue Lounge
- Pierpont Commons
- CSE Lounge

Where to go for help — Student Services and Resources

In addition to the advising/counseling services within the College of Engineering, there are many other resources available to you. Services that have been especially useful to engineering students in the past include:

Career Center (CC)
3200 SAB (734) 764-7460
www.careercenter.umich.edu
The 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.

Computer-Aided Engineering Network (CAEN)
2318 Duderstadt Center (734) 764-CAEN
www.engin.umich.edu/caen/
CAEN provides the College of Engineering with the computing environments for engineering-related research and education. The CAEN computer labs offer a multitude of information resources and software programs.

Counseling and Psychological Services (CAPS)
3100 Michigan Union, Central Campus
(734) 764-8312
www.umich.edu/~caps/clinical.html
Get confidential help with personal issues. Services include: personal counseling, workshops, and consultation services. A 24-hour peer counseling telephone service (76-GUIDE) is available.

Engineering Advising Center (EAC)
230 Chrysler (734) 647-7106
www.engin.umich.edu/students/advising
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
http://career.engin.umich.edu
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, resume and job search assistance, information on job fairs, and other career-related events.

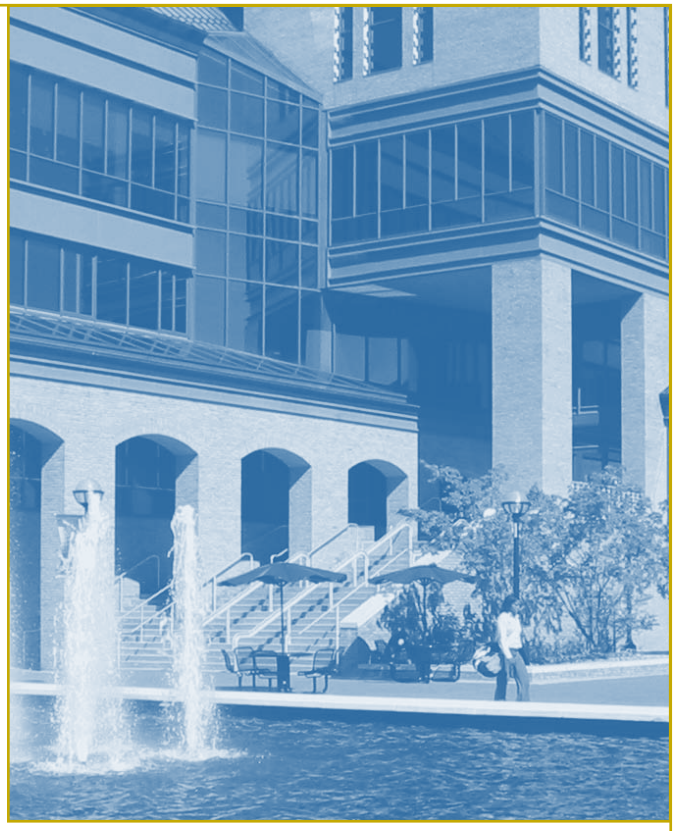
Engineering Learning Center
273 Chrysler Center (734) 647-727
The Engineering Learning Center offers free tutoring, study groups, class notes, test files, computer workstations, and job and graduate-school information.

Engineering Scholarship Office (ESO)
147 Chrysler Center (734) 647-7113
www.engin.umich.edu/students/current/scholarships/
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)
401 East Liberty, Suite 350, TCF Bank Bldg.
(734) 764-2413
www.lsa.umich.edu/eli/
ELI offers a range of courses for international students and entering students whose native language is not English.

International Center
South Wing, Michigan Union (734) 764-9310
B420 Pierpont Commons (734) 936-4180
www.umich.edu/~icenter/
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)
245B Chrysler Center (734) 647-7129
www.engin.umich.edu/ipe
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. IPE also oversees the International Minor, and the Engineering Global Leadership Honors Program.



Multicultural Engineering Programs Office (MEPO)
1463 LEC (734) 647-7122
www.engin.umich.edu/mepo
MEPO helps to ensure students' academic, personal and professional success. Primary services include skill-development forums, academic support and networking opportunities within and outside the College.

Multi-Ethnic Student Affairs
2204 Michigan Union (734) 763-9044
http://mesa.umich.edu
This office advises multicultural students and organizations, and helps plan events and activities on campus.

Office of Financial Aid and Scholarships
2011 SAB
B430 Pierpont Commons (734) 763-6600
www.finaid.umich.edu/
This office provides processing and advising for student financial aid.



Office of New Student Programs (ONSP)
3011 SAB (734) 764-6413
www.onsp.umich.edu/
This office is comprised of the Office of Orientation, the University Mentorship Program and the Welcome to Michigan Program.

Office of Recruitment and Admissions
1108 LEC (734) 647-7101
www.engin.umich.edu/admissions
This office recruits and facilitates the admission of first-year and transfer students to the College of Engineering, and evaluates transfer credits.

Safewalk **(734) 763-WALK**
If you are uncomfortable walking around campus by yourself, call Safewalk, UM's nighttime escort walking services.

Services for Students with Disabilities (SSD)
G625 Haven Hall (734) 763-3000 (voice or TDD)
www.umich.edu/~sswd
SSD provides services to students with visual impairments, learning disabilities, mobility impairments or hearing impairments. This office also works with students who have chronic health problems or psychological disabilities.

Sexual Assault Prevention and Awareness Center (SAPAC) ***www.umich.edu/~sapac/***
3100 Michigan Union (734) 998-9368
Counseling Crisis Line (734) 936-3333
SAPAC provides individual and group counseling for survivors of sexual assault, dating/domestic violence, stalking and sexual harassment.

SOS Community Crisis Center
114 N. River, Ypsilanti (734) 485-8370
Counseling Crisis Line (734) 485-3222
This community resource, located between downtown Ypsilanti and Depot Town, offers daytime counseling services as well as a free, 24-hour crisis line.

Spectrum Center
3116 Michigan Union
(734) 763-4186
http://www.umich.edu/~lgbta
This office offers educational programming, a classroom speakers bureau, crisis intervention, and information and referral services.

Sweetland Writing Center (SWC)
1139 Angell Hall (734) 764-0429
www.lsa.umich.edu/swc/
SWC assists students with academic writing.

University Health Service (UHS)
207 Fletcher (734) 763-1320
http://www.uhs.umich.edu
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.

Women in Engineering Office (WIE)
1240 LEC (734) 647-7012
www.engin.umich.edu/students/support/wie
WIE offers resources and services to insure students' success, and prepares students for graduate programs and engineering careers.

Useful Websites

American Society for Engineering Education
http://www.asee.org/

CAEN Network
www.engin.umich.edu/caen/

College of Engineering
www.engin.umich.edu

College of Engineering Bulletin
www.engin.umich.edu/students/bulletin.html

College of Engineering Course Descriptions
www.engin.umich.edu/students/courses

Co-op Job Placement
http://career.engin.umich.edu/studalums/interns/

CoE Recruitment and Admissions Office
www.engin.umich.edu/admissions

CoE Transfer Course Equivalencies
http://www.engin.umich.edu/transferdatabase/

Engineering Advising Center
www.engin.umich.edu/students/advising

Engineering Career Resource Center
http://career.engin.umich.edu/

International Programs in Engineering
www.engin.umich.edu/ipe

LS&A Course Description Guide
www.lsa.umich.edu/cg

Multicultural Engineering Programs Office
www.engin.umich.edu/mepo

Registrar's Office
www.umich.edu/~regoff

Student Employment Office
www.studentemployment.umich.edu

Time Schedule Online
www.umich.edu/~regoff/timesched

University Health Service
http://www.uhs.umich.edu

University of Michigan
www.umich.edu

Wolverine Access
https://wolverineaccess.umich.edu

Women in Engineering
www.engin.umich.edu/students/support/wie



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 Safewalk.
- 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 nearest Blue Emergency phone 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.

Safewalk (734) 763-WALK

Campus Safety and Security
In an emergency, dial: 911
For non-emergencies, dial: (734) 763-1131

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

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. On Central Campus, Ride Home operates from 2am to 5am, and on North Campus it operates from 2am to 7am. This service is available during the Fall and Winter semesters only. To request a ride, contact library staff at the main reference desk.





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. The service schedule is as follows:

Monday - Friday: 11:00pm - 6:00am
Saturday & Sunday: 7:00pm - 7:30am

Night Ride is not available on holidays and the night before a holiday. Each passenger pays a fixed rate of $5.00 regardless of distance traveled. Call 734-528-5432 for information.

Useful College of Engineering Numbers

College of Engineering General Information . . . . . **(734) 647-7000**
Ameritech Engineering Learning Resource Center . . . . . G264 LEC, (734) 647-7127
Associate Dean for Undergraduate Education. . . . . 1261 LEC, (734) 647-7150
CAEN Hotline. . . . . 1315 Duderstadt Center, (734) 763-CAEN

Engineering Advising Center. . . . . 1009 LEC, (734) 647-7106
Engineering Career Resource Center . . . . . 230 Chrysler Center, (734) 647-7160
Engineering Honor Council. . . . . 1234 EECS, (734) 936-3252
Engineering Scholarship Office . . . . . 1432 LEC, (734) 647-7113
Engineering Student Records . . . . . 1401 LEC, (734) 647-7111
International Programs in Engineering. . . . . 245 Chrysler Center, (734) 647-7129
Minority Engineering Program Office . . . . . 1463 LEC, (734) 647-7120
Recruitment and Admissions Office . . . . . 1108 LEC, (734) 647-7101
Scholastic Standing . . . . . 1009 LEC, (734) 647-7115
Student Leadership and Activities Office . . . . . 1420 LEC, (734) 647-7155
University of Michigan Engineering Council . . . . . 1230 EECS, (734) 764-8511
Women in Engineering Office . . . . . 1240 LEC, (734) 647-7012

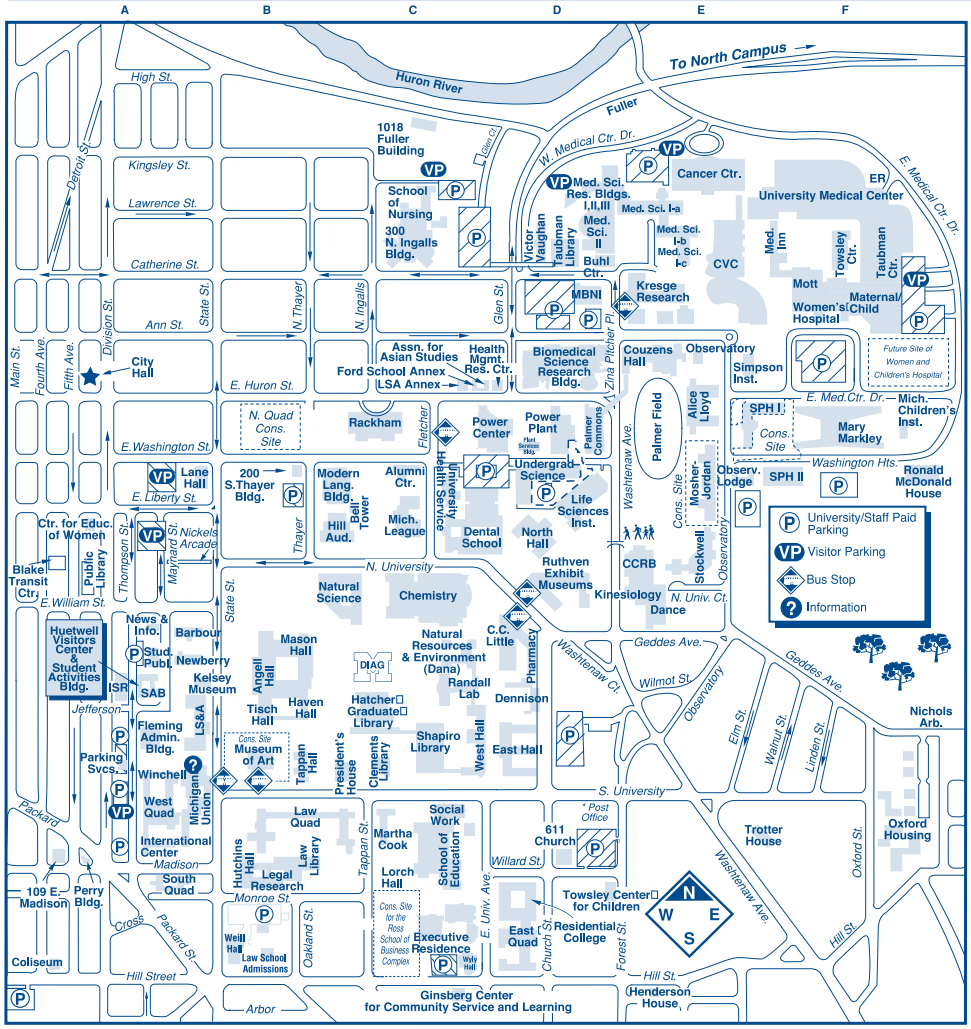
Engineering Undergraduate Degree Programs
Aerospace Engineering . . . . . 3054 FXB, (734) 764-3310
Atmospheric, Oceanic and Space Sciences . . . . . 2207 SRB, (734) 936-0482
Biomedical Engineering . . . . . 1111 Gerstacker, (734) 763-5290
Chemical Engineering . . . . . 3086 HH Dow, (734) 647-9876
Civil and Environmental Engineering . . . . . 2340 GG Brown, (734) 764-4106
Computer Engineering/Computer Science/Electrical Engineering . . . . . 3415 EECS, (734) 763-2305
Engineering Physics . . . . . 1919 Cooley, (734) 936-3130
Industrial and Operations Engineering. . . . . 1603 IOE, (734) 764-3297
Interdisciplinary Engineering . . . . . 1009 LEC, (734) 647-7106
Materials Science and Engineering . . . . . 2146 HH Dow, (734) 764-3275
Mechanical Engineering. . . . . 2206 GG Brown, (734) 936-0337
Naval Architecture and Marine Engineering. . . . . 222 NAME, (734) 764-6470
Nuclear Engineering and Radiological Sciences . . . . . 1919 Cooley, (734) 936-3130

First-Year Course Information
Chemistry Department . . . . . 1500 Chemistry, (734) 763-6148
Comprehensive Studies Program . . . . . G155 Angell Hall, (734) 764-9128
Engineering Advising Center . . . . . (734) 647-7106
Engineering 100/101/110 . . . . . 1422 LEC, (734) 647-7114
LSA Honors Program. . . . . 1330 Mason Hall, (734) 764-6274
Mathematics Department. . . . . 2074 East Hall, (734) 764-0335
Physics Department . . . . . 2061 Randall Lab, (734) 764-5539

Useful University Numbers

Campus Operator . . . . . "0" from any Campus phone or (734) 764-1817
Campus Information Centers
Central Campus . . . . . 1st Floor Michigan Union, (734) 763-INFO
North Campus . . . . . Information Center, Lobby Pierpont Commons, (734) 763-INFO
Campus Safety and Security
Emergencies 911
Non-Emergencies . . . . . (734) 763-1131
Career Center (Central Campus) . . . . . 3200 SAB, (734) 764-7460
Cashier's Office
Central Campus . . . . . 777 North University, 2nd floor, (734) 764-8230
Counseling and Psychological Services . . . . . 3100 Michigan Union, (734) 764-8312
English Language Institute . . . . . 401 East Liberty, Suite 350, TCF Bank Bldg., (734) 764-2413
Financial Aid Office . . . . . 2011 SAB, (734) 763-6600
International Center (Central Campus) . . . . . 603 E. Madison, West Quad, (734) 764-9310
LSA International Programs Office . . . . . G-513 Michigan Union, (734) 764-4311
Multi-Ethnic Student Affairs . . . . . 2202 Michigan Union, (734) 763-9044
New Student Programs Office . . . . . 3511 SAB, (734) 764-6413
Office of the Ombuds . . . . . 6015 Fleming Admin. Bldg., (734) 763-3545
Registrar's Office
Central Campus . . . . . 413 E. Huron, (734) 763-5174
Safewalk . . . . . 1213 Kipke, (734) 763-WALK
Services for Students with Disabilities (SSD) . . Rm G664 Haven Hall, (voice or TDD), (734) 763-3000
Sexual Assault Prevention & Awareness Center (SAPAC) . . 715 N. University, Suite 202, (734) 998-9368
Counseling Crisis Line . . . . . (734) 936-3333
Spectrum Center . . . . . 3200 Michigan Union, (734) 763-4186
Student Employment Office . . . . . 2503 SAB, (734) 763-4128
Student Financial Operations (Student Accounts) . . . . . 2226 SAB, (734) 764-7447
Student Legal Services . . . . . 2304 Michigan Union, (734) 763-9920
Transcripts . . . . . (734) 763-9066
Undergraduate Research Opportunities Program . . . . . 715 N. University, Suite 201, (734) 998-9381
University Health Services . . . . . 207 Fletcher Street, (734) 764-8320
University Mentorship Program . . . . . 3511 SAB, (734) 764-6413

University of Michigan
Central Campus



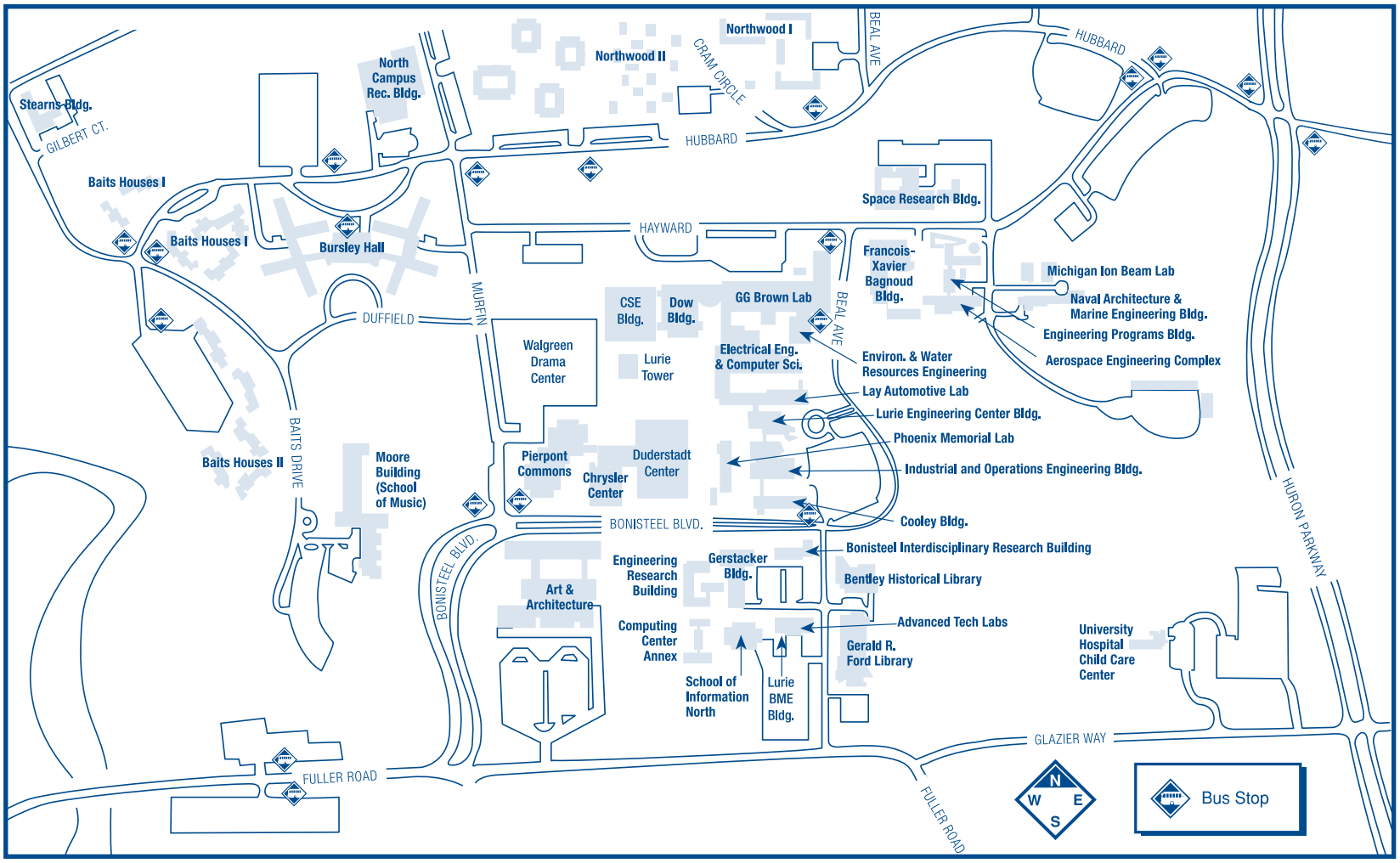
To Wolverine Tower

Campus Information Center, (First floor, Michigan Union, 764-INFO)

© 2007 University of Michigan, MM&D
For use information call 734-764-9270.

Central Campus **Bus Stops**

North Campus **Bus Stops**



Index

A

Academic and Personal Support 47
Academic Progress Tracking Form 48
Academic Resource Help 47
Academic-Year Advising—Setting Education and Career Goals ... 37
Advanced Placement Credit 31
Advanced Placement, A-Level, International Baccalaureate and Transfer Credit 29
Advising Sessions 8
Ameritech Engineering Learning Resource Center 49
AP Credit Acceptance 30

C

Career Center 50
Changing Course Selections (Drop/Add) 33
Chemistry 24
College of Engineering Honor Code 7
Computer-Aided Engineering Network 50
Counseling and Psychological Services 50
Course Registration Information 33

D

Declaring an Engineering Major 41
Drop/Add Schedule 34

E

Engineering 100 20
Engineering 101 21
Engineering Advising Center 8, 50
Engineering Advising Center Staff 9
Engineering Career Resource Center 50
Engineering Core Courses 19
Engineering Degree Programs' Websites 41
Engineering Faculty Advisors 9
Engineering Peer Advisors 10
Engineering Program Advisors 45
Engineering Scholarship Office 51
English Language Institute 51

F

FAQ: Advanced Placement 30
FAQ: Chemistry 24
FAQ: Class Help 49
FAQ: Drop/Add 32
FAQ: Engineering 100, Engineering 101 20
FAQ: Humanities/Social Sciences 27
FAQ: Mathematics 22
FAQ: Pass/Fail 36
FAQ: Selecting Classes 17
FAQ: Study Help, Study Spots 50
First-Year Course Selections 13
First-Year Student Checklist 16
Foreign Languages 28

G

Guiding You in the Right Direction 42

H

Honors-Level Courses 26
How to Declare 41
Humanities and Social Sciences 27

I

International Center 51
International Programs in Engineering 51

L

Lesbian, Gay, Bisexual and Transgender Affairs 51

M

Math and Physics 30
Mathematics 22
Multicultural Engineering Programs Office 51
Multi-Ethnic Student Affairs 51

N

Minors for Engineering Students 38
North Campus Bus Stops 62
North Campus Visitor Parking 63

O

Office of Financial Aid and Scholarships 51
Office of New Student Programs 52
One-Year Academic Plan 16

P

Pass/Fail Option 36
Pass/Fail Schedule 35
Personal Safety 57
Physics 25
Planning Your First Year 13
Preparation for Pre-Registration Advising 17

R

Recruitment and Admissions Office 52
Reference Resources 49
Registration 33
ROTC First-Year Courses 37

S

Safewalk 52, 57
See an EAC Advisor When You 8
Services for Students with Disabilities 52
Sexual Assault Prevention and Awareness Center 52
SOS Community Crisis Center 52
Student Responsibilities 8
Student Services and Resources 50-52
Student Success 47
Sweetland Writing Center 52

T

Tips for First-Year Students 16

U

Undecided? Explore Your Options in Engineering 41
University of Michigan Engineering Council 11
Useful College of Engineering Numbers 56
Useful University Numbers 57
Useful Websites 53

W

Waitlists. 33
Welcome Day and First-Year Initiative 11
Where to Go for Help – Student Services and Resources 50
Wolverine Access 33
Women in Engineering Office. 52





Scavenger Hunt



Free Food



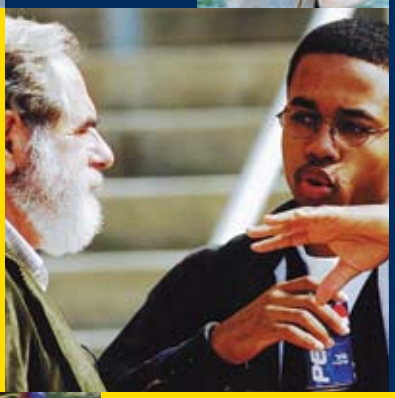
Computing Workshops

Fun For Everyone



WELCOME DAY

Department Information Fair





Engineering Student Societies & Groups



Prizes

North Campus **Friday, August 29, 2008** **11:30 a.m.–4:30 p.m.**

UNIVERSITY OF MICHIGAN

College of Engineering

Engineering Advising Center
230 Chrysler Building
2121 Bonisteel Boulevard
Ann Arbor, Michigan 48109-2092

(734) 647-7106
(734) 647-7126 fax
www.engin.umich.edu/advising

Engineering Council
www.engin.umich.edu/soc/umec

The Regents of the University of Michigan

Julia Donovan Darlow, Ann Arbor
Laurence B. Deitch, Bingham Farms
Olivia P. Maynard, Goodrich
Rebecca McGowan, Ann Arbor
Andrea Fischer Newman, Ann Arbor
Andrew C. Richner, Grosse Pointe Park
S. Martin Taylor, Grosse Pointe Farms
Katherine E. White, Ann Arbor
Mary Sue Coleman, *ex officio*

The University of Michigan, as an equal opportunity/affirmative action employer, complies with all applicable federal and state laws regarding nondiscrimination and affirmative action, including Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973. The University of Michigan is committed to a policy of nondiscrimination and equal opportunity for all persons regardless of race, sex, color, religion, creed, national origin or ancestry, age, marital status, sexual orientation, gender identity, gender expression, disability, or Vietnam-era veteran status in employment, educational programs and activities, and admissions. Inquiries or complaints may be addressed to the Senior Director for Institutional Equity and Title IX/Section 504 Coordinator, Office of Institutional Equity, 2072 Administrative Services Building, Ann Arbor, Michigan 48109-1432, 734-763-0235, TTY 734-647-1388. For other University of Michigan information call 734-764-1817.