First-year Spring Advising Meeting

Electrical Engineering — Spring 2019

Have your flowchart handy

Agenda:

- Prepare for registration of fall classes
  - Update your flowchart
  - Important registration notes
  - Taking summer classes

- Course drop deadline current semester
- Joining enterprise
- EE Concentrations, minors, co-op, study abroad
- more advising topics

Links: See the Slides .pdf version of this presentation to use relevant links

You may need to adjust volume on some slides.

Write down your questions as you go.

Judy Donahue
EERC 131

eceadvise@mtu.edu

Appointments: 487-2550
REGISTRATION DATES

• Initial Fall Registration is open  **March 17 – March 31**

• Fall registration closes March 31, then *re-opens approx. April 2\textsuperscript{nd} and will remain open* until fall classes begin.

• **Your Registration Start Date/Time:**
  • Based on the number of credits you’ve *completed*.
  • see Registration Priority Schedule.

• Summer registration is open until classes begin
• Summer classes begin and end:
  
  **Track A:** May 13 – June 28  
  **Track B:** July 1 – Aug 16

Mark Your Calendars!
Choose your courses & Check Prereqs

Differential Equations is a prerequisite for EE2112.

Consider:
- Normal-paced
- Lin Alg & Diff Eq

Consider taking a class in summer to avoid an 18 credit semester in Spring of 2nd year.
How to register in Linear Algebra and Differential Equations:

**MA2321 and MA3521** accelerated – *both in Fall*

- Take Linear Algebra & Diff Eq before taking MA3160
- MA2321*(track A)* is the pre-requisite for MA3521*(track B)*
- Register for both CRN’s MA2321 and MA3521 else “Link Error”
- Take at least **14 Credits** *(financial aid safety net with accelerated courses)*

**OR**

**MA2320 (Fall) then MA3520 (Spring)** *separate semesters*

- May or may not add a semester to graduation plans.
- You cannot take EE2112, Circuits II, until Differential Equations is *complete*.
- If you are NOT strong in Math, do not take accelerated courses.
Click CRN to see course details

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**LINK ERROR** = missing lab or co-requisite section

L02 and R01
Registration Form for approvals and waivers

1. Print waiver form - Registrar’s webpage
2. Take form to instructor for approval
3. If approved, take signed form to the Student Services Center – Admin Bldg (Registrar’s Office)
4. Most enterprises require this form

Full section? what to do:

For full EE courses, see or email Judy.

For full out-of-department courses:
- find another section
- wait for a seat to open (watch often)
- postpone/switch with a future course

Or for approval, see course instructor or advisor in that dept.
WHAT IS ENTERPRISE

Add project-work and business skills to your undergraduate experience

- Project teams
- May begin as early as first or second year (ENT1960, ENT2950, ENT2960)
- May complete engineering design requirements (ENT3950, ENT3960, ENT4950, ENT4960)
- May practice business and leadership skills

ECE Department Enterprises:
- BMSE – Blue Marble Security L02 (Dr. Glen Archer EERC 629)
- RSE – Robotic Systems L15 (Dr. Jeremy Bos EERC 623 or Dr. Tony Pinar EERC 731)
- WCE – Wireless Communication L03 (Mr. Kit Cischke EERC 520)

Other enterprises:
- Aerospace
- Advanced Metalworks
- Green Campus Enterprise
- Supermileage Vehicle
- Innovative Global Solutions
- Open Source Hardware
- SENSE

Many more....Visit the enterprise website

☐ Register in ENT2950 if you have six semester left
☐ Use ENT1960 if you have 7 semesters left
ENTERPRISE REGISTRATION

Schedule of Classes

2nd year Enterprise project work is optional.

ENT course# depends on # semesters you have remaining at Tech.

- Register in ENT2950 if you have six semester left (if taking Circuits 1 EE2111, in fall)
- Use ENT1960 if you have 7 semesters left (if not ready for Circuits 1 in fall)

Review the Enterprise Course # Registration Guide (at the ECE Advising Blog)

Web: ECE undergraduate Advising ~ Joining an Enterprise
TAKING CLASSES DURING SUMMER?

If you have time to attend a class and put in the effort:

Where?

• Online through Michigan Tech or on-campus (search Schedule of Classes)
  - Track A or Track B or full summer
  - Community college or college near you for transfer credit

Why?

• To get ahead or get caught up
• To lighten future semester course loads (such as semester 4 on the flowchart)
• To repeat a course you did poorly in and improve your GPA (CD or lower)

Summer course suggestions:
  Composition
  Global Issues
  Your next Math course
  University Chemistry
  General education course – ensure it is one that you need.
Notify transfer@mtu.edu if you are taking summer courses elsewhere that are prerequisites to courses you need in fall. Temporarily “In Session”. Send final transcript upon completion.

Michigan undergraduate schools:
Complete a Guest Application – Registrar’s website

Transfer Equivalency List – Look for previously evaluated courses

Send syllabus to transfer@mtu.edu for evaluation (if course is not listed on the equivalency list)

A grade of “C” or higher is required to transfer a course to MTU
REGISTRATION CHECKLIST:

- EE’s: Do not postpone CS1111. **CS1111 is a fall only class.**
  - Choose a lab section and the lecture section – enter both CRN’s to avoid a “Link Error”
  - Take CS1121 or CS1131, java, instead **if you are considering a CpE double major or CS minor.**

- Decide if you’d like accelerated Linear Algebra and Diff EQ in fall, or to split them into two semesters at the normal pace.
  - MA2321 & MA3521 are taken at the same time (both at 3:00) but in different parts of the semester.

- Schedule at least **14 credits** with MA2321 & MA3521. (financial aid safety net)

- ENG1100 students will take ENG1102 in fall.

- You can take either a Critical & Creative Thinking course or a Social Responsibility & Ethical reasoning course, or both. If you did not complete UN1015 or UN1025, take in summer or fall, before taking other gen ed courses.

- Following the flowchart will have the least chance of time conflicts.

- Update your flowchart: Change course EE3250 to EE4250, Modern Communication Systems

- Notify [transfer@mtu.edu](mailto:transfer@mtu.edu) if you are taking a course elsewhere in summer that is a prerequisite for a class you need in fall.
Biomedical Applications
- Take BL2010 and BE2400 in Fall of 2nd year; Take BL2020 in Spring of 2nd year.
- Can delay one year

Environmental Applications
- Take CEE3503 in Spring of 2nd year or CEE3501 in Fall of 3rd year
- Take CEE3502 in Spring of 3rd year.

Enterprise
- Take ENT2961 in semester 3 or 5 and ENT2962 in semester 4 or 6.
- Choose Enterprise project work for your Engineering Design Option. Take ENT3950 in Sem. 5

Photonics
- Take EE2190 in spring of 2nd year. Prerequisite is Diff Eq. Co-requisite is PH2200(Physics II).

Electric Power Engineering
- Take EE3120 in semester 4, 5 or 6.

To “Add” a concentration, submit a request online in the Curriculum Change Portlet in MyMichiganTech. Meet with Judy for planning help.
INTERESTED IN PHOTONICS?

EE 2190 Introduction to Photonics

- Spring of 2nd year
- Prereq: Diff EQ
- Co-req or pre-req: PH2200 Physics II

- If NOT doing the concentration, Introduction to Photonics may apply as
  - “EE Elective credit” or “Approved elective credit” or “free electives”
- Join SPIE – Student chapter of the International Society of Optics and Photonics
  - activities and research – for information, contact Mike at mamaurer@mtu.edu or Evan at ejgawron@mtu.edu or ops-officers-l@mtu.edu
MINORS

- Aerospace Engineering
- Computer Science
- Electronic Materials
- Mathematics
- Nanoscale Science & Engineering
- Physics
- Data Acquisition and Industrial Control
- Art
- Economics
- Enterprise
- Ethics and Philosophy
- French, German, or Spanish
- Music
- Theatre Arts
- Writing

More! Find Minor requirements on the Degree Services website

Minor Advisors List
ECE Advising Blog

(Just passed half-way … keep taking notes)
HOW TO ADD:
MINOR, CONCENTRATION, DOUBLE MAJOR ETC...

Add:  minor, concentration, major (for a double-major), or second degree

Change: major

Drop:  minor, concentration, major (double-major), second degree

Meet with the advisor of the program you plan to add. Must meet any requirements by the department.

Submit a Curriculum change request in MyMichiganTech.

Approval of the program advisor is required.

Instructions
KEY: Use your degree audit report to verify your course choices
  - Do not take courses that are not on the Core or HASS lists.

1st year - UN1015 and UN1025. Upper level language course may substitute for UN1025.

2nd year Core - Critical & Creative Thinking (3 cr.) Select one course from:
  - FA2330, FA2520, FA2720, FA2820, HU2130, HU2324, HU2501, HU2503, HU2538, HU2700, HU2820, HU2910, SS2300

2nd year Core - Social Responsibility & Ethical Reasoning (3 cr.) Select one course from:
  - EC2001, ED2000, PSY2000, SS2100, SS2200, SS2400, SS2500-SS2505, SS2600, SS2610, SS2700

3rd & 4th year: 12 credits HASS (may be taken earlier)
  - at least 6 credits of HASS coursework must be level 3000-4999. See HASS lists on the web and in your Banweb degree audit report.
    1. HASS Communication & Composition list, 3 cr.
    2. HASS Humanities and Fine Arts (HU/FA) list, 3 cr.
    3. HASS Social & Behavioral Science (EC/PSY/SS), list 3cr.
    4. HASS any list or HASS restricted list, 3 cr.

3 units of Co-curricular courses (physical education, music lessons, bands)
Students may repeat courses with a **grade of CD or lower**.

The **most recent grade** is used in your GPA calculation. Even if it is lower.

Maximum of 3 attempts to pass a course.

Permission from the Dean of Students, Financial Aid *and* your academic advisor is required to repeat a course a 2nd and final time.

**Web:** ECE Advising Blog
**DROP A COURSE IN CURRENT SEMESTER?**

- Mid-term grades of satisfactory or unsatisfactory are available Monday, March 4\(^{th}\), after 5pm.
- If you are behind or not doing well in a course, talk with your instructor and then your academic advisor.

**To Drop a course:**

- Use the orange drop/add permission form.
- Instructor and advisor signature permission required.
- Friday, March 29\(^{th}\) is LAST DAY to drop.
- After March 29\(^{th}\), no drops are allowed for low grades.

Permission from Dean of Students is required if you had extenuating circumstances beyond your control. Call 487-2212.
Track B Classes begin Monday, March 4th.

- Can add courses until Thursday, March 7th (use orange permission form)
- March 20 is deadline to drop Term B courses without a grade.
- April 12 is deadline to drop Term B courses with a “W” grade.
- After April 12th, no dropping of Term B courses, except in extenuating circumstances.

Track B: Don’t forget:

- EE1111-Introduction to ECE
- PE courses – track B
CO-OP

- Valuable experience to add to your resume
- Helps with career path and focus area choices

**UN300x** – 2 credits co-op experience
  - One semester plus a summer
  - EE majors: co-op credits may count as free or approved electives
  - CpE majors: co-op credits may apply as free electives or technical electives

- **How?**
  - Career Fairs, Industry Days, Search in Handshake

- **Co-op Office:** 487-2313  Admin 220  career@mtu.edu
IPS Office – International Programs and Services
- www.mtu.edu/international

Study abroad advisor: Vienna Chapin Admin 200

Study Abroad 101 workshops:
- 11 am Tuesdays
- 2 pm Thursdays
(Just walk in – no appointment needed -200 Admin)

Fall, Spring & Summer programs
Apply in sophomore year
Enhance your resume

3rd year Spring France-American Exchange Program (FAME)
European Project Semester (EPS)
- senior design project (earn credit for EE3901, EE4901, EE4910)
ACCELERATED MASTERS - MSEE, MSCPE

“5-YEAR MASTERS”

- Possible to complete BSEE and MSEE or BSCpE and MSCpE in 5 years.
- 6 credits of 4000+ level ECE coursework may be applied to MSEE or MSCpE.
- Remaining 24 credits may be completed in one year.
- Apply at end of Junior year
- Maintain undergrad cumulative GPA of 3.25 +

Non-accelerated masters in EE or CpE requires 3.0+

(Almost over … hang in there)
ECE LEARNING CENTER   EERC 123

Sunday – Thursday 6:00 – 8:00 pm

Monday – Thursday 1:00 – 4:00 pm

- Coaching hours posted in [ECE Advisor’s blog](#)
- Help with EE1110, EE2174, EE2111, EE2112, math and programming skills
- See your instructors for help during their office hours
- Department Learning Centers [list](#)
- Multi-literacy Center - Walker 107 – help with writing and communication for any class.
Undergraduate Advising

Advising Reminders

To schedule an advising appt, call 487-2550 or go to EERC121

• Spring & Summer 2019 grads: Complete your graduation application
• Prepare for fall 2019 Registration

Advising Resources

24/7 advising help

- Computer Engineering
- Electrical Engineering
- Spring Advising Meeting

Frequently asked:
- Photonics Program
- Focus Areas
- Concentrations

Joining an enterprise

Dean of Students
- Feeling Stressed? What can I do?

Degree Services
- Repeating a course

Graduation
- Transferring credits from elsewhere

ECE Learning Center

Student Organizations

More Resources
- College of Engineering
  - Pursue Your Goals
  - Get Involved
  - Find Support
  - Explore the Community

Quick Links

General Education

Prepare for Registration

UG Course Catalog

Special Approval/Restriction Waiver

Semester Planning Worksheet

Transfer Credit Equivalency Link

Appointments: 487-2550

131 EERC

Judy Donahue
eceadvise@mtu.edu

8 a.m. - 4 p.m.
2:15 p.m. - 3:35 p.m
Summer: 8 a.m. - Noon
Out of Office:

131 EERC

Trever Hassell
tjhassel@mtu.edu

M-F 9:30 a.m. - 11 a.m.
MWR 2-4pm
Summer: Contact Judy
Judy’s Advising Office during initial registration period: walk-ins

**walk-ins:** March 18\(^{th}\) – March 25th

Walk-ins ONLY:  
- quick registration questions  
- course drop procedure

7:45am – 12:30pm  
1:40pm – 3:45pm

*Come in the next morning after you register, if needed.*

For long-range planning of future semesters or Degree Audit review, schedule an Appointment *before spring break or after April 1\(^{st}\).*