First-year Spring Advising Meeting

EE MAJORS

February-March 2016 - Have your flowchart handy

- Prepare for Registration of Fall classes
- Update your flowchart
- Enterprise, minors, co-op, study abroad, etc...

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EERC 131
eceadvise@mtu.edu

Appointments: 487-2550

See the Slides .pdf version of this presentation to use the relevant links included.
REGISTRATION DATES

• Initial Fall Registration is open March 17 - April 3

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

• Fall registration closes April 3, then **re-opens April 5th and will remain open** until fall classes begin.

• Summer registration is open until classes begin
• Summer classes begin and end:

  **Track A:** May 9 – June 24
  **Track B:** June 27 – Aug 12
Choose your courses & Check Prereqs

Consider:
Normal-paced Lin Alg & Diff Eq

EE Flowcharts
Advising webpages

Move EE3250 To Sem. 7
MA2321 and MA3521  accelerated

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

MA2320 and MA3520  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. This delays Circuit II course one semester.
Click CRN to see course details

**Schedule of Classes (SOC)**

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<th>CRN</th>
<th>Subj</th>
<th>Crse</th>
<th>Sec</th>
<th>Cmp</th>
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**LINK ERROR** = missing lab or lecture section (CRN)

L02 R01
SUMMER CLASSES?

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.

Complete a Guest Application Form (Michigan schools)

Transfer Equivalency List

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

MTU Transfer Services
Student Services Center, Admin 110
487-3323
transfer@mtu.edu
Take both, MA2160 and EE1110, Essential Math for EE’s during summer:

- EE1110 - Remotely – through Michigan Tech Track B
  June 27 – August 11   Prerequisite is MA1160/1161
- MA2160 – at community college or Michigan Tech

Why? So you can take EE2111, Circuits I in Fall. Both MA2160 and EE1110 are prerequisites for EE2111, Circuits I.

Other summer course suggestions (if you have time):
  Linear Algebra
  Multi-variable calculus
  University Chemistry
  University Physics
  General education course – ensure it is one that you need.
Print waiver form at the Registrar’s webpage
Take form to instructor for approval
Take completed, signed form to the Student Services Center – Admin Bldg

Full section?
- Look for another section
- Wait for someone to drop
- Use green form to seek permission from Department which offers course (Judy & Trever cannot get you in)

Web: “Department Contacts for filled sections”
REGISTRATION NOTES:

- EE’s: Do not postpone CS1111. **CS1111 is a fall only class.**
- Decide if you’d like accelerated Linear Algebra and Diff EQ in fall, or to split them into two semesters at the normal pace.
- Schedule at least **14 credits** with MA2321 & MA3521. (financial aid safety net)
- ENG1100 students will take ENG1102 in fall.
- You can take either a Goal 4 or Goal 8 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.
- New pre-requisite for EE3250 is EE3180. Update flowchart or print a new one.
  - Move EE3250 to sem. 7: switch it with a HASS, EE elective or Approved Elective course.
- Notify **transfer@mtu.edu** if you are taking a course elsewhere in summer that is a prerequisite for a class you need in fall.
BSEE CONCENTRATIONS

- **Biomedical Applications**
  - Take BL2010 and BE2400 in Fall 2016; Take BL2020 in Spring 2017.
  - Can delay one year

- **Environmental Applications**
  - Take ENVE3501 in Fall 2017 and ENVE3502 in Spring 2018

- **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.

- **Photonics**
  - Complete PH2200, EE2112, MA3160 and (MA3520 or MA3521) in 2nd year
  - Take EE3090 in fall of 2017 (3rd year)

- **Electric Power Engineering – New for 2016-2017**
  - Change catalog year to 2016-2017 (do this in 2nd year or later)
  - Take EE3120 in semester 4, 5 or 6.

To “Add” a concentration, complete a [Curriculum Add/Drop form](#) and meet with Judy. Obtain a sample flowchart for the concentration you are considering.
INTERESTED IN PHOTONICS?

EE 3090 Geometrical and Wave Optics

- Fall of 3rd year
- Concurrent prereq: EE3140 - Electromagnetics
- Prereqs: PH2200, Diff EQ and MA3160

- If NOT doing the concentration, Geometrical & Wave Optics may apply as
  - “EE Elective credit” or “Approved elective credit” or “free electives”
- Join SPIE – Student chapter of the International Society for Optics and Photonics
  - activities and research
MINORS

Search for **Minor requirements** on Degree Services website

Fall 2016 and later: Minor coursework may double-count with major requirements.

**Technical**
- Computer Science
- Electronic Materials
- Mathematics
- Nanoscale Science & Engineering
- Physics
- Remote Sensing
- Data Acquisition and Industrial Control

**Non-technical**
- Art
- Economics
- Enterprise
- Ethics and Philosophy
- French, German, or Spanish
- Music
- Theatre Arts

[ECE Advising Blog]

[Degree Services]
HOW TO ADD:
MINOR, CONCENTRATION, DOUBLE MAJOR ETC...

Complete a **Curriculum Add/Drop Form** with the advisor in department offering the minor, concentration, etc...

Add: minor
concentration
double-major
second degree

Change: major

Drop: minor
concentration
double-major
second degree

A degree audit report in Banweb will be generated accordingly.
ECE Department Enterprises:

- BMSE – Blue Marble Security  **L02**  (Dr. Glen Archer EERC 629)
- HEV - Hybrid Electric Vehicle  **L04**  (Bob Page MEEM 604 and John Lukowski EERC 233)
- RSE – Robotic Systems  **L15**  (Dr. Glen Archer EERC 629)
- WCE – Wireless Communication  **L03**  (Kit Cischke EERC 520)

Other Departments:

- Aerospace  (Dr. Brad King  MEEM 1014) **NO signature needed to register**!
- Advanced Metalworks  (Russell Stein  M&M 202)
- Formula SAE  (Dr. James DeClerck  MEEM 927)
- Supermileage Vehicle  (Rick Berkey  M&M 722)
- Innovative Global Solutions  (Dr. Warrington  M&M 722)
- Open Source Hardware  (Dr. Joshua Pearce  M&M 504)

Many more....  Visit the [enterprise website](#)

Web: ECE undergraduate Advising ~  [Joining an Enterprise](#)

Many enterprises require “special approval” – use waiver form & obtain enterprise advisor signature
ENTERPRISE ENROLLMENT

There is a different **section number** for each enterprise on the **Schedule of Classes**

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Review the **Enterprise Enrollment Guide** (at the ECE Advising Page)

This depends on # semesters you have remaining at Tech.

Guide: Join ENT2950 when you are in EE2111 or Diff Eq (6 sems. Left)
Join ENT1960 when you are in MA2160 (7 sems. Left)

Web: ECE undergraduate Advising ~ **Joining an Enterprise**
Use your degree audit report to verify your course choices

Do not take courses that are not on the Goal 4, Goal 8 or HASS lists.

Goal 4 course (3 cr.) Select one course from the Critical and Creative Thinking List
FA2330, FA2520, FA2720, FA2820, HU2130, HU2503, HU2504, HU2538, HU2700, HU2820, HU2910, SS2300

Goal 8 course (3 cr.) Select one course from the Social Responsibility and Ethical Reasoning List
EC2001, PSY2000, SS2100, SS2200, SS2400, SS2500-SS2505, SS2600, SS2610, SS2700

3 units of Co-curricular courses (physical education)
REPEATING A COURSE
GRADE OF “CD” OR LESS,

- 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.
- Special permission from the Dean of Students, Financial Aid and your academic advisor is required to repeat a course a 2nd and final time.
- Friday March 25th is the final day to drop a course with a “W” grade.

Web: ECE Advising Blog

If you are behind in a course, talk with your instructor and then your advisor.
First-year students: instructor and advisor signatures required. Use the orange Add/Drop form

Friday MARCH 25th, is last day to drop with a grade of “W”.

After March 25th, no dropping is allowed for low grades. Permission from Dean of Students is required if you had extenuating circumstances beyond your control.

Track B Classes begin Monday, Feb 29th.
- March 16 is deadline to drop Term B courses without a grade.
- April 8 is deadline to drop Term B courses with a “W” grade.
- After April 8th, no dropping of Term B courses, except in extenuating circumstances.
CO-OP

- **Bookmark this page:** Career Services

- **Valuable** experience to add to your resume

- Helps with **career path** and **specialty area** planning

- **Co-op** – go to the Career Services Center for **co-op** opportunities and how to apply. Admin Building 2nd floor

- **UN3002** – 2 credits co-op experience (not required)
  - EE majors: co-op credits may count as free or approved electives
  - CpE majors: co-op credits may apply as free electives if needed

- Ms. Kirsti Arko, karko@mtu.edu 487-2313 Admin 220
IPS Office – International Programs and Services

- www.mtu.edu/international

- Study Abroad 101 workshop:
  - 11 am Tuesdays
  - 2 pm Thursdays

- Fall, Spring & Summer programs

- Apply in sophomore year

- EE Junior Year Spring in France – core classes

- European Project Semester (EPS)
  senior design project (earn credit for EE3901, EE4901, EE4910)
ACCELERATED MASTERS - MSEE, MSCpE

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

CONSIDERING AN MBA?

Contact the admissions officer at mba@mtu.edu or 906-487-3055 for information about course prerequisites for admission into the Tech MBA program.
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
- Most departments have a Learning Center
- Multi-literacy Center - Walker 107 – help with writing and communication for any class.
ECE Advisor’s Blog: -&gt; Undergraduate -&gt; Advising Blog

ECE Advising Page: -&gt; Undergraduate -&gt; Advising

ECE Department Web Page: mtu.edu/ece/ faculty & courses

Registrar’s Office Web Page Prepare for Registration

Degree Services: -&gt; majors, minors, .pdf degree audit forms

Dean of Students: -&gt; Dean’s list, policies, academic issues

Schedule an Appointment: 487-2550 EERC 121

CpE’s: Trever Hassell, EERC 131, tjhassel@mtu.edu
EE’s: Judy Donahue, EERC 131, eceadvise@mtu.edu

“Bad planning on your part does not constitute and emergency on my part”
Anonymous (Proverb)