First-year Spring Advising Meeting

Electrical Engineering – Spring 2018
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

Judy Donahue
EERC 131
eceadvise@mtu.edu
Appointments: 487-2550
REGISTRATION DATES

• Initial Fall Registration is open  **March 18 - April 1**

• **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 1, then *re-opens ~April 3rd and will remain open* until fall classes begin.

• Summer registration is open until classes begin
• Summer classes begin and end:
  **Track A:**  May 14 – June 29  **Track B:**  July 2 – Aug 17
Choose your courses & Check Prereqs

EE Flowcharts
Advising webpages

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

- MA2321(track A) is the pre-requisite for MA3521(track B)
- Register for both CRN's MA2321 and MA3521 else “Link Error”
- Take Linear Algebra & Diff Eq before taking MA3160
- 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. This delays Circuit II course one semester.
## Schedule of Classes

### Sections Found

**Computer Science**

<table>
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<tr>
<th>CRN</th>
<th>Subj</th>
<th>Crse</th>
<th>Sec</th>
<th>Cmp</th>
<th>Cred</th>
<th>Title</th>
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<th>Time</th>
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<th>Instructor</th>
<th>Date (MM/DD)</th>
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<td>Zhang</td>
<td>09/05-12/15</td>
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</table>

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

**L02** **R01**
Use Filled Section / Late Add Form

“Department Contacts for filled sections” for permission

- Look for an open section; Change your schedule
- EE classes – see Judy
- Use green form to seek permission from Department which offers course (*Judy & Trever cannot get you in*)
- Wait for someone to drop

Special Approval & Restriction Waiver form

- 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
- Most enterprises require this form

Registration error?

- Instructor/Dept approval
- class restriction
- major restriction
- prereq/coreq
ENTERPRISE ENROLLMENT

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

Other enterprises:
- Aerospace  (Dr. Brad King  MEEM 1014) application-see their website
- Advanced Metalworks  (Mr. Joe Licavoli  M&M 512 or 202)
- Husky Games Development  (Dr. Scott Kuhl  Rekhi 210)
- Supermileage Vehicle  (Mr. Rick Berkey  M&M 722)
- Innovative Global Solutions  (Dr. Tewari 818 MEEM and Dr. Manser 105C Dillman)
- Open Source Hardware  (Dr. Joshua Pearce  M&M 504)
- SENSE  (Dr. Nina Mahmoudian  MEEM 1009)

Many more….  Visit the enterprise website

- Register in ENT2950 if you have six semester left
- Use ENT1960 if you have 7 semesters left

Web: ECE undergraduate Advising ~ **Joining an Enterprise**
Many enterprises require “special approval” – use waiver form & obtain enterprise advisor signature.
**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)*

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<thead>
<tr>
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Web: ECE undergraduate Advising ~ **Joining an Enterprise**
TAKE 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.
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.

**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

MTU Transfer Services
Student Services Center, Admin 110
487-3323
transfer@mtu.edu
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”

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.

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 of 2\textsuperscript{nd} year; Take BL2020 in Spring of 2\textsuperscript{nd} year.
  - Can delay one year

- **Environmental Applications**
  - Take CEE3501 in Fall of 3\textsuperscript{rd} year and CEE3502 in Spring of 3\textsuperscript{rd} 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**
  - Complete PH2200, EE2112, MA3160 and (MA3520 or MA3521) in 2\textsuperscript{nd} year
  - Take EE2190 in spring of 2\textsuperscript{nd} year

- **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 – email Stephen Grulke at sjgrulke@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
HOW TO ADD:
MINOR, CONCENTRATION, DOUBLE MAJOR ETC...

Add:  minor, concentration, double-major, or second degree
Change: major
Drop:  minor, concentration, double-major, second degree

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

Use the Curriculum Change Portlet in MyMichiganTech, to
submit a request.
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)
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.

Web: ECE Advising Blog
DROP A COURSE

- Friday, March 30th is LAST DAY to drop.
- After March 30th, 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.
- Mid-term grades of satisfactory or unsatisfactory are available March 5th.
- If you are behind or not doing well in a course, talk with your instructor and then your academic advisor.
- Instructor and advisor signature permission required.
- Use the orange drop/add permission form

Get orange drop form in EERC 121 or 131
Track B Classes begin Monday, March 5th.

- Can add courses until Thursday, March 8th (use orange permission form)
- March 21 is deadline to drop Term B courses without a grade.
- April 13 is deadline to drop Term B courses with a “W” grade.
- After April 13th, 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 +

(Almost over … hang in there)
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.

Sunday – Thursday 6:00 – 8:00 pm

Monday – Thursday 1:00 – 4:00 pm
Appointments: 487-2550

The End.