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 2nd 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

**Registration error?**

- Instructor/Dept approval
- class restriction
- major restriction
- prereq/coreq
- time conflict
- Class capacity (Full)

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
ENT2950?

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

MTU Transfer Services
Student Services Center, Admin 110
487-3323
transfer@mtu.edu
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 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 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 4th, 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 29th is LAST DAY to drop.
- After March 29th, 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.

Get orange drop form in EERC 121 or 131
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
• 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

- 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)

Villa Lante, Italy
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
Friday, December 7th, 2018:
- 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

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
5 am - Noon
2:15 pm - 3:35 pm
Summer: 8 am - Noon
Out of Office:
131 EERC
Trever Hassell
tjhassel@mtu.edu
M-F 8:30 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\(^{st}\).*

The End.