First-year Spring Advising Meeting

Electrical Engineering Spring 2021
Have your flowchart handy

Agenda:

• Registration tour
• Choosing classes for next semester
• How to join enterprise
• Programming course(s) (which one is best for me?)
• Course drop deadline current semester
• Taking summer classes
• Explore:
  • concentrations, minors, co-op, study abroad, accelerated masters

The links within these slides are activated to get you to relevant information.

Judy Burl, Academic Advisor
EERC 131
jm Burl@mtu.edu

Appointments: see How to contact me
REGISTRATION DATES

• Fall 2021 registration opens **March 14**th following the
  • **Registration Priority Schedule** (shows your start date & time)
  • Based on the number of credits you’ve *completed*.

Mark Your Calendars!

• Fall registration closes April 4th, then **re-opens April 6**th 10pm.
  *and will remain open* until fall classes begin.

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

  **Track A:** May 10 – June 25  
  **Track B:** June 28 – Aug 13
REGISTRATION TOUR

1. ECE Advising Pages
   1. Computer Engineering (8-sem. flowcharts and electives lists)
   2. Electrical Engineering (8-sem. flowcharts and electives lists)
   3. Robotics Engineering (8-sem. flowcharts and electives lists)

1. Prepare for Registration
   1. General education (Core, HASS and co-curricular lists)
   2. Schedule of Classes
   3. Approval/Waiver Form
   4. Course Descriptions
   5. Registration Forms

New!

Visual and Performing Arts Dept (VPA)
Removed course prefix “FA” and are using:

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Choose your courses & Check Prereqs

Consider:

MA2320
Normal-paced
Lin Alg & Diff Eq

Key to note: Differential Equations is a prerequisite for EE2112.

Consider taking a class in summer to avoid an 18 credit semester in Spring of 2nd year.

EE Flowcharts
Advising webpages

CS1111
or
CS1121?
Take CS1121 if considering CS minor or CpE Double Major
Sample schedules for semester 3 Fall
choose your next math course

**MA1121 or MA1160 or MA1161 Calculus I**
- CS1111 – C programming
- PH1100 – Physics by Inquiry 1 (if not taken)
- PH2100 – University Physics 2
- Critical and Creative Thinking or Social Resp. Course or HASS

**MA2160 – Calculus II**
- CS1111 – C Programming
- ENG1102 – Engineering Modeling & Design
- PH1200 – Physics by Inquiry 2
- PH2200 – University Physics 2
- Critical and Creative Thinking or Social Resp. Course or HASS

**MA2321 and MA3521 – Accelerated**
- EE2111 – Circuits 1
- CS1111 – C Programming
- PH1200 – Physics by Inquiry 2
- PH2200 – University Physics 2
- Critical and Creative Thinking or Social Resp. Course or HASS

**MA3160 – Multivariable Calculus**
- EE2111 – Circuits 1
- CS1111 – C Programming
- PH1200 – Physics by Inquiry 2
- PH2200 – University Physics 2
- Critical and Creative Thinking or Social Resp. Course or HASS

- **Recommendation:** Take MA1160 or MA2160 in Summer if not completed in first year. May take at a Community College or MTU.
- **If you have not yet taken UN1015 or UN1025 – may take in summer at CC, or schedule after it in fall class restriction removed.**
- **Take MA2320, normal paced Linear Algebra, if you’re not ready for the accelerated pace of math courses (MA2321 & MA3521).**
- **If you’re interested in additional programming and CS courses, CS minor, or double-major with CpE – take CS1121, java, instead of CS1111, C. If you know a programming language, take CS Assessment if interested in CS1131 (accelerated Intro to programming in java).**

**Filler courses: Need more credits?**
- Take CH1150 and CH1151 if not yet completed.
- HASS course – follow the guidelines and check your degree audit report to see which list and level you need.
- **Co-curricular activity**
- Join an enterprise ENT2950 – 1 cr. (optional)
How to register in Linear Algebra and Differential Equations:

**MA2321 and MA3521** accelerated – *both in same semester*

- 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”
  
  CRN 81138 and 81141

- Take at least **14 Credits** (financial aid safety net with accelerated courses)

**OR**

**MA2320** in Fall, then **MA3520** in 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.
WHICH PROGRAMMING CLASS?

CS1111 – Introduction to Programming in C/C++
CS1121 – Introduction to Programming I (java) May replace CS1111
CS1122 - Introduction to Programming II (java) May count in Approved Electives
CS1131 – Accelerated Introduction to Programming (For students who already know programming)
CS1142 – Programming at the Hardware/Software Interface (may count in SELECT)

Link to Course Descriptions

EE Majors:
- Take CS1111, C programming.
- ‘C’ is the best language for Electrical Engineers to know.
- If considering a CS minor or CpE/EE double-major, or want additional programming skills, take CS1121 or CS1131 instead of CS1111.
- Additional programming skills desired? Take CS1121, CS1122, CS1142.

CS Minor and CpE/EE Double-majors:
- Start with CS1121 or CS1131
- If you’ve completed CS1121, take CS1122 next.
- If you’ve completed CS1131, consider CS1142 next.
Click CRNs to see course details (such as pre-requisite, co-requisite, restrictions)

CS1111: Choose any lab section (L01 or L02 or L03 or L04)  
with the lecture section R01. Key in two CRN’s.

(CS1121, CS1131, CS1122 – same. Choose any lab section)
Registration Form for approvals and waivers

Registration error?

1. Print waiver form - Registrar’s webpage or fill in digitally.
1. Fill in name, ID, and course information
1. Take (or email) form to instructor for approval
1. If approved, take signed form to the Student Services Center – Admin Bldg (Registrar’s Office) Or E-mail the form to schedule@mtu.edu
1. Most enterprises require this form

Full section? what to do:

For full EE courses, sign up on the ECE course waitlist for Fall 2021.

For out-of-department courses:
- find another section
- check often for a seat to open
- postpone/switch with a future course
- contact the course instructor or advisor in that department.
WHAT IS ENTERPRISE?

Add project-work and business skills to your undergraduate experience

- View Project teams here.
- May begin as early as first or second year (ENT1960, ENT2950, ENT2960)
- May complete **engineering design requirements** (ENT3950, ENT3960, ENT4950, ENT4960)
- Technical project work plus develop 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)
- ITOE – IT Oxygen Enterprise – L10 (Mr. Nagesh Hatti EERC 712) **Not approved for Engineering Design yet.**

*but can be taken at 2000 and 3000 levels.*

**Other enterprises:**

- Aerospace
- Advanced Metalworks
- Green Campus Enterprise
- Suprmileage Vehicle
- Innovative Global Solutions
- Open Source Hardware
- SENSE

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

**Enterprise Project Work Registration checklist:**

- Register in ENT2950 if you have six semester left
- Use ENT1960 if you have 7 semesters left
- **Registration guide** - # semester you have remaining
- Look up Section Number and instructor on [Schedule of Classes](#)
- Use Approval/Waiver Form for registration
SAME COURSE # - DIFFERENT SECTION # FOR ENTERPRISE PROJECT WORK

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Link to the **Schedule of Classes (SOC)**
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 for better understanding and/or improve your GPA (CD or lower)
  • Third attempt form is required if the class was taken twice before

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.

Some Michigan colleges will request a guest application:
Complete a Guest Application – via the Registrar’s Office.

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
Track B Classes begin week of Monday, March 1st.

- Can add courses until Thursday, March 4th (use first-year permission form)
- March 19 is deadline to drop Track B courses without a grade.
- April 9 is deadline to drop Track B courses with a “W” grade.
- After April 9th, no dropping of Track B courses, except in extenuating circumstances beyond a student’s control. (such as hospitalization)

Track B: Don’t forget:

PE courses – track B - if you registered
SHOULD I DROP A COURSE?

**Decide:**
- Mid-term grades of satisfactory or unsatisfactory are available in MyMichiganTech Monday, March 1st, after 5pm.
- Meet with academic advisor or Success Center coach if two or more “UN” grades.
- If you are behind or not doing well in a course, talk with your instructor and then your academic advisor.

**How to Drop a course:**
- Use the first-year student drop/add permission form (Also available in Advising Office – the Orange Form)
- Instructor and advisor signatures are required.
- Friday, March 26th is LAST DAY to drop. Get form done well in advance of 5pm.
- After March 26th, no drops are allowed for low grades.

Permission from Dean of Students Office is required to drop a course if you had extenuating circumstances beyond your control. Call: 487-2212. Email: deanofstudents@mtu.edu

Click here for Add/Drop Deadlines
REPEATING A COURSE
GRADE OF “CD” OR LOWER

- On the Web: [course repeat policy](Registrar’s website)
- May repeat course with a grade of CD or lower.
  - Courses taken in Covid semesters may be repeated regardless of grade - Spring 2020, Fall 2020
- The most recent grade is used in your GPA calculation. Even if the previous grade was higher.
- Maximum of 3 attempts to pass a course. (Try to complete 1st or 2nd try!)
- “W” grade does not count as an attempt. (Withdraw)
- Permission from the Dean of Students, Financial Aid and your academic advisor is required to repeat a course a 2nd and final time (the third attempt to pass). (Try hard not to need a 3rd attempt at a course)

- Take a repeat seriously, start from scratch, attend all classes.
Spring 2021 Coaches available:

- **Link to ITC Learning Center Hours** and Zoom Link to access help
- Help with EE2174, EE2111, EE2112, and if coaches have completed EE3171, EE3131, etc., math and programming skills
- See your instructors for help during their office hours
- All Department Learning Centers: [locations](#)
- **Multi-literacy Center** - Walker 107 – help with writing and communication for ALL CLASSES. Via online appointments.
MORE TO KNOW ABOUT : VISIT THESE LINKS

- **Concentrations** for EE’s (optional)
  - To “Add” a concentration, submit a request online in the Curriculum Change Portlet in MyMichiganTech. Meet with Judy for planning help.

- **Minors** (optional)

- **How to join an Enterprise**
  - Approval Waiver form

- **Co-op and summer internships**

- **Accelerated Masters**

- **Studying Abroad** (Pavlis Institute)

- **Help with study habits, stress management, academic success**

- **Help with ECE coursework**

- **List of Learning Centers**

- **List of Academic Advisors** for major and minors

Be truly interested in your classes, major and field for better success!
Judy’s Advising Office during initial registration period:

March 16\textsuperscript{th} – March 30\textsuperscript{th}

- quick registration questions
- course drop procedure
- academic or college life concerns

See Judy the next morning after you register, if you have registration problems you cannot solve.

Walk-in hours: MTWRF approximately 9 am – 4 pm
(gone for occasional meetings)
Zoom advising and walk-ins in mornings; Walk-in EERC 131 afternoons.

For long-range planning of future semesters schedule an Appointment:
before March 6\textsuperscript{th} or after March 30\textsuperscript{th}.
using Google Meet appt. slots

Note: If I hear that Coronavirus is spreading I will have Zoom Advising Hours only during registration days.

The End.