Electrical Engineering at
Michigan Tech

Look up pre-requisite, co-requisite, semester offerings, course requirements and restrictions in the course catalog and Schedule of Classes.

Photonics Concentration
Updated Nov. 2017
with new photonics sequence.
catalog year: 2016-2017

SAMPLE PLAN
for calculus-ready students

MA2320 & MA3521, full semester courses, may replace MA2321 and MA3521. Diff Eq is p-req to EE2112.

Delays EE2112 (1 sem.) And Photonics sequence (1 year).

Co-hort courses
- MA1160/61 (4) Calculus I
- MA2160 (4) Calculus II
- MA3180 (4) Multi-Variable Calculus
- MA3521/20 Accel. Diff. Eq.
- MA3521 Accel. Linear Alg.

Fall only
- PH1100 (1) Physics I Lab
- EE1110 (1) Essential Math (track A)
- CS1111 (3) Intro C/C++ Programming
- EE2112 (4) Electric Circuits II & Lab
- EE2174 (4) Digital Logic & Lab

Spring only
- PH1200 (1) Physic I Lab
- UN1025 (3) Global Issues
- MA2160 MA3521/20
- EE3160 (3) Signals & Systems
- EE3140 (3) Electromagnetics

ENT3960 (2) Concurrent pre-req (a prereq. that may be taken concurrently)

MA1160/61 (4) Calculus I
- MA2160 Calculus II
- MA3160 & MA3520, full semester courses, may replace MA2321 with new photonics sequence.

Fall only
- MA2321(2) Accel. Linear Alg
- MA3521(2) Accel. Diff. Eq.
- EE2111 (3) Electric Circuits I

Spring only
- PH2100 (3) Physics I
- EE3901 (2) EE Design 1
- ENGR 1.0 (Track A)

Co-Curr. Unit (5)
- Critical/Creat Thinking core
- Social/Ethical core

Spring only
- MA1160/61 MA2160
- EE2112 PH2200 MA3160
- EE3140 (3) Electromagnetics
- EE4490 (4) Laser Systems & Apps

Spring only
- CH1150/51 (4) &/or CH1153 (1) Univ Chem I
- CH1153 is optional recitation section & is recommended. Take CH1000 first if not well-prepared for UChem

Fall only
- EE1110 (1) Essential Math (track A)
- UN1025 (3) Global Issues
- Spring only
- EE2174 (4) Digital Logic & Lab
- HASS HU, FA
- HASS Comm/ Composition

Spring only
- PH2100
- EE3190 (3) Optical Sensing and Imaging
- EE Elective (3)

Total 128
plus 3 units co-curricular activities

**Photonics electives:**
- Fall: EE4252, PH4510, EE4411,
- Spring: EE4253, EE4290, MSE/PH/MY4292, BE4250-Alt spg odd

**hass Elective:**
- CH3400

**Recommended HASS elective:**
- EC3400

__Undergraduate advisor__
- EERC 131. Call 487-2550 to schedule appt. eceadvise@mtu.edu

GRADUATION Checklist:
1. Apply to graduate 1 or 2 semesters before your last semester. Date: ___________

2. FINAL degree audit review: Meet with the advisor at the end of the semester before your last, after scheduling last set of classes and reviewing your degree audit report:

Final Audit Date: ___________ Advisor check: ___________