**BSEE Photonics Concentration**

**2018-2019**

catalog term: 201808

---

**SAMPLE PLAN**

### Photonics Concentration

#### BSEE 2018-2019

- **Fall Year 1**
  - MA1160 (4) Calculus I
  - CH1150/51 (4) &/or CH1153 (1) Univ Chem I
  - CH1153 is optional recitation section & is recommended. May use in Approved or free Electives.
  - Take CH1100 first if not well-prepared for UChem

- **Spring Year 1**
  - MA2160 (4) Calculus II
  - MA2321 (2) Linear Alg
  - ENG1102 (3) Engg Analysis
  - ENG1111 (3) ECE 1.0 (Track B)

- **Fall Year 2**
  - MA2160 (4) Multi-Variable Calculus
  - MA3160 (4) Multi-Variable Calculus
  - MA3521/20 Accelerated Diff. Eq.
  - EE1110 (1) Essential Math (track A)
  - EE2111 (3) Electric Circuits I
  - CS1111 (3) Intro C/C++ Programming

- **Spring Year 2**
  - MA3160/20 (4) Multi-Variable Calculus
  - MA2321/20 Accelerated Linear Alg
  - EE2174 (3) Digital Logic & Lab
  - EE2190 (3) Intro to Photonics

- **Fall Year 3**
  - EE3160 (3) Signals & Systems
  - EE3180 (3) Modern Comm. Systems
  - EE3190 (3) Photonic Mtl & Devices wLab
  - MA3520/1 (4) Accelerated Diff. Eq.

- **Spring Year 3**
  - EE3290 (4) Photonics Elective (3)
  - EE4490 (4) Laser Systems & Apps
  - HASS Comm/Composition

- **Fall Year 4**
  - EE4901 (2) EE Design 1
  - EE4910 (2) EE Design 2

**Electives:**
- Must have pre-reqs complete. Look up pre-reqs and semester offerings. See note below.
- Choose at least 6 credits of 3000-4999 HASS

---

**Total 128**

plus 3 units co-curricular activities

---

* Schedule a minimum of 14 credits if taking accelerated Linear Alg/Diff Eq MA2321/3521
* beginning academic year 2019-20, a grade of C or higher in Calc I is required for PH2100 or if CD or D in Calc I, PH2110 is required with PH2100.

---

**Undergraduate advisor:**
EERC 131. Call 487-2550 to schedule appt. eceadvise@mtu.edu

---

**Notes:**
- **Photonics electives:** fall: EE4252, PH4510 spring: EE4253, EE4290, MSE4292, BE4250-Alt spg even
- Agreements for Photonics: 2) 3) 4) 5) See reverse side for planning info and General Education worksheet.

---

**Recommended HASS elective:** EC3400

---

**Schedule a minimum of 14 credits if taking accelerated Linear Alg/Diff Eq MA2321/3521**