## BSEE Photonics Concentration

### 2014-2015 Catalog Year

**Electrical Engineering at Michigan Tech**

- **Co-reqisite Courses**
  - **Fall Year 1**
    - MA320 & MA3520, full semester courses, may replace MA2321 and MA3521. Diff Eq is p-req to EE2112. Delays EE2112.
  - **Spring Year 1**
    - ENT 3960(1)
  - **Fall Year 2**
    - EN 3950(1) & ENT 3960(1)
    - EN 4950(2)
    - EN 4960(2)
  - **Spring Year 2**
    - EE 3140

### SAMPLE PLAN

**SAMPLE PLAN**

**Photonics Concentration**

#### BSEE catalog year: 2014-2015

**Fall Year 1**
- **Fall**
  - MA1160(61) Calculus I
  - PH1100(1) Physics I Lab
- **Spring**
  - MA2160(4) Calculus II
  - PH2100(3) Physics I

#### Fall Year 2
- **Fall**
  - MA2321(2) Accel. Linear Alg
  - MA3252(2) Accel. Diff. Eq
  - EE2112(4) Electric Circuits II & Lab
- **Spring**
  - EE3114(3) Electromagnetics
  - PH2200(3) Physics II Lab

#### Fall Year 3
- **Fall**
  - CS1111(3) Intro C/C++ Programming
  - HHF 1 Elective
- **Spring**
  - EE3190(3) Photonic Mtl & Devices w/lab
  - EE3290(4) Photonic Mtl & Devices & Apps

#### Fall Year 4
- **Fall**
  - EE4490(4) Laser Sysms & Apps
- **Spring**
  - EE4190(2)** Photonics Elective (3)

**Total Electives: 128 plus 3 units co-curricular activities**

**Photonics Electives:**
- EE4250, EE4252, EE4253, EE4256, EE4290, EE5522, MY3922, PH4510

**EE Electives:**
- 3 credits of EE courses not listed here and not EE3805, EE4000, EE4805.

**SELECT Approved Electives:**
- 3 credits, choose one course from list of SELECT Approved Electives.

**Approved Electives:**
- 4 credits w/ EE Design Project, 2 credits with Enterprise for design.

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