**Bachelor of Science – Electrical Engineering
Biomedical Applications Concentration**

**2021-2022**

**Sem. 1 - Fall**
- MA1160/61 (4) Calculus I
- ENT2950 & ENT4960: take in same semester.
- ENT1960(1) ENGR Visualization Test

**Sem. 2 - Spring**
- MA2160 (4) Calculus II
- MA2321/20 MA3521/20 MA2160
- ENT3901 (2) Design Fund.
- CS1111 (1) Intro C/C++ Programming
- CS1111 (4) Digital Logic & Lab

**Sem. 3 - Fall**
- MA3160 (4) Electronics and Lab
- EE3131 (4) Microcontroller App for CPS
- CS1111 (4) Intro. Probability & Random Sig. Anal.

**Sem. 4 - Spring**
- MA3160 (4) Multi-Variable Calculus
- EE3131 (4) Microcontroller App for CPS
- CS1111 (2) EE2174

**Sem. 5 - Fall**
- MA2321/20 MA3521/20
- MA2174 (1) Electric Circuits I

**Sem. 6 - Spring**
- MA2321/20 MA3521/20
- MA2174 (1) Electric Circuits I

**Sem. 7 - Fall**
- EE4910 (2) EE Design 1
- EE3901 (2) EE Design 2

**Sem. 8 - Spring**
- EE4910 (2) EE Design 1
- EE3901 (2) EE Design 2

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Focus area choice: Biomechanics= pink path or Biomaterials= blue path

**Biomechanics path:**
- BE3300 (3) Biomechanics 1
- BE3300 (3) Biomechanics 1
- BE2800 (3) Biomaterials 1

**Biomaterials path:**
- BE3261 (3) Control Systems
- BE3261 (3) Control Systems
- BE2800 (3) Biomaterials 1

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Total 128 cr.

**Undergraduate advisor:**
EERC 131: Walk in or email Judy jmburl@mtu.edu

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**Attend Career Events early on:**
Semester 5 or 6 is good to co-op.
https://www.mtu.edu/career/students/

**Study Abroad 101:**
https://www.mtu.edu/honors/ study-abroad/program/

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* Take 14 cr. min. w/ MA2321/3521

**1)** See reverse side for planning info and General Education details.

*** May use BE4770 plus one credit of ‘free elective’ in place of EE3171.