## Michigan Technological University Minor in Biomedical Engineering

Program Code EBEM, Academic Year 2023-24 Department of Biomedical Engineering

**Total Credits Required: 18** 

This minor is not open to students majoring in Electrical Engineering with a Biomedical Applications concentration

## **Required Course: 9 credits**

- BE 2400 Cellular and Molecular Biology (3) Preregs: CH1150 and MA1121 or MA1160 or MA1161
- BE 2700 Biomedical Signals & Systems (3) Preregs: CH1150, MA2160, ENG1102 and PH2100
- BE 4850 Tissue Mechanics (3) Preregs: BE3350
  - o or, BE 4755 Medical Devices Preregs: none

## **Elective Courses, 9 credits minimum**

- BE 2110 Statistical Methods for Biomedical Engineering (3) Prereq: MA2160
- BE 3350 Human Biomechanics (3) Preregs: BE3300 or MEEM2110
- BE 3400 Laboratory Techniques for BME (2) Preregs: BE2800 or MSE2100
- BE 3700 Biomedical Instrumentation (3) Preregs: BE2700, EE3010
- BE 3701 Biomedical Instrumentation Lab (1) Preregs: none
- BE 3800 Biomaterials II (3) Preregs: BE2800 or MSE2100
- BE 4410 Medical Imaging (3) Prereqs: BE3700 and BE3701
- BE4670 Micro- and Nanotechnology for Biomedical Applications (3) Preregs: PH2100 or EE2110 or EE3010