Michigan Technological University  
Minor in Structural Materials  
Program Code MSSM, Academic Year 2023-24  
College of Engineering  
Total Credits Required: 18

**Required Courses: 9 Credits**
- MSE 2110 Intro to Materials Science & Engineering (3)  
  Prereqs: (MY2100 or MSE2100 or BE2800) and (ENG1100 or ENG1101)
- MSE 4100 Mechanical Behavior of Materials (3)  
  Prereqs: (MY2110 or MSE2110) and (MEEM2150 or ENG2150)
- MSE 4120 Materials and Process Selection (3)  
  Prereqs: MY2100 or MSE2100 or BE2800

**Elective Courses: 9 credits**
- CEE 3101 Civil Engineering Materials (3)  
  Prereqs: ENG2120 or MEEM2150 or CMG2120
- MSE 3120 Materials Characterization I (4)  
  Prereqs: MY2110 or MSE2110
- MSE 3130 Materials Characterization II (4)  
  Prereqs: MY2100 or MSE2100 or BE2800
- MSE 4110 Intro to Polymer Engineering (3)  
  Prereqs: (MY2100 or MSE2100 or BE2800) and CH1160  
  or CM/CH 4610 Intro to Polymer Science (3)  
  Prereqs: CH1122 or (CH1160 and CH1161)
- MSE 4310 Principles of Metal Casting (3)  
  Prereqs: MY2100 or MSE2100 or BE2800
- MSE 4320 Corrosion & Environmental Effects (3)  
  Prereqs: MY2100 or MSE2100 or BE2800
- MSE 4330 Advanced Physical Metallurgy (3)  
  Prereqs: MY3300 or MSE3140
- MSE 4410 Science of Ceramic Materials (3)  
  Prereqs: MY2100 or MSE2100 or BE2800
- MSE 4430 Composite Materials (3)  
  Prereqs: MY2100 or MSE2100 or BE2800
- MSE 4510 Contact Mechanics & Nanoindentation (3)  
  Prereqs: (MY2100 or MSE2100 or BE2800) and (MA3521 or MA3520 or MA3530) and MEEM2150
- MSE 4520 Materials Forensics (3)  
  Prereqs: MY2100 or MSE2100 or BE2800
- MSE 4990 Undergraduate Research (1-3)  
  Prereqs: none