

## Michigan Technological University Bachelor of Science Degree Audit

### Major Program: Materials Science and Engineering, Concentration: Engineering Enterprise

Program Code: MSEE, Academic Year 2022-2023

Total credits required for the degree: 128

#### Required Courses: 51 credits

- ENG 1101 (3)
  - or ENG 1001 (2) and ENG 1100 (2)
- ENG 1102 (3)
- MEEM 2110 (3)
- MEEM 2150 (3)
- MSE 2100 (3)
- MSE 2110 (3)
- MSE 3100 (4)
- MSE 3110 (4)
- MSE 3120 (4)
- MSE 3130 (4)
- MSE 3140 (3)
- MSE 3150 (3)
- MSE 3190 (2)
- MSE 4100 (3)
- MSE 4110 (3) or MSE 4610 (3)
- MSE 4120 (3)

#### Required Math and Science

- CH 1150 (3)
- CH 1151 (1)
- CH 1160 (3)
- CH 1160 (1)
- MA 1160 (4)
- MA 2160 (4)
- MA 2320 (2) or MA 2321 (2)
- MA 3160 (4)
- MA 3520 (2) or MA 3521 (2)
- PH 1100 (1)
- PH 1200 (1)
- PH 2100 (3)
- PH 2200 (3)
- PH 2400 (3)

#### Approved Electives: 3 credits

MSE4430, MSE4510, MSE4520, MSE4530, MSE4740, MSE4777, MSE4240, MSE4292, MSE4310, MSE4320, MSE4330, MSE4410, AF3010, BE4300, CH2410, CH4640, CEE3101, CM3974, CM4620, ENT3966, ENT3959, MA3710, MEEM3600, MEEM4170, MEEM4405, MEEM4610, MEEM4635, MET3500, OSM4650, PH4510

#### Concentration Requirements: 12 credits

##### Enterprise Project Work: 6 credits

- ENT 3950 (1)
- ENT 3960 (1)
- ENT 4950 (2)
- ENT 4960 (2)

##### Enterprise Teaming and Communications: 3 credits

- ENT 2961 (1) and ENT 2962 (2)  
or HU 3120 (3)

##### Enterprise Instructional Modules: 3 credits

- MSE 4131 (1)
- MSE 4141 (1)
- ENT Module (1)  
ENT3954, 3956, 3958, 3961, 3962, 3963,  
3964, 3966, 3967, 3971, 3972, 3973, 3974,  
3975, 3976, 4951, 4954

#### Free Electives: 2 to 3 credits

Any coursework is allowable, excluding co-curricular and coursework below the 1000- level.

## General Education Core, Humanities, Fine Arts, and Social Science (HASS) Requirements: 24 credits

Courses used to complete Core and HASS requirements may not be used to complete other degree requirements. Students must complete 12 credits of Core coursework and 12 credits of Humanities, Fine Arts, and Social Science (HASS) coursework. Repeatable courses may not be repeated for general education credit. Core and HASS courses can be found on the [General Education](#) page.

### Core: 12 credits

- UN 1015 (3)
- UN 1025 or an upper level modern language (3)
- Critical and Creative Thinking (3)
- Social Responsibility and Ethical Reasoning (3)

### HASS: 12 credits, six of the 12 credits must be at the 3000- or 4000- level

- Communication/Composition (minimum 3 credits)
- Humanities and Fine Arts (minimum 3 credits)
- Social and Behavioral Sciences (minimum 3 credits)
- Any course from the General Education Core, HASS, or Restricted HASS [course list](#) (0 to 3 credits)

### Co-curricular Activities: 3 credits

Required for graduation, but not included in the GPA calculation or in the overall credits required for the degree. Only courses on the co-curricular course list are eligible. Half (0.5) credit courses may be repeated to a maximum of one time for co-curricular credit. Find eligible courses on the [General Education](#) page.