This is not an official list of degree requirements. Adjustments may be required due to curriculum changes. See back of academic plan for more information on requirements for elective courses.
### BSE Individualized Emphasis 2017-18

(minimum of 128 credits)

**Academic questions: E-mail** efadvice@mtu.edu

1. **Senior Design Ready:**
   - **a. Senior Design Prerequisite courses:**
     - EE3010, ENG1101, ENG1102, ENG2120, ENG3200, ENG3830,
   - **b. Core Competency Check test:** Take and pass the test; test topics include all ENG3830 prerequisites except ENG3830 & Design Elective.

2. **General Education Requirements (24 credits + 3 PE units):**

   **I. Core Courses (12 credits):**
   - ___ UN1015 Composition
   - ___ UN1025 Global Issues or 3000+ Modern Language
   - ___ Critical/Creative Think List
   - ___ Social Resp./Ethical Reason List

   **II. HASS Courses Requirements (12 credits):**
   - (www.admin.mtu.edu/em/documents/HASS Distribution List.pdf)
     - 6 credits upper level (3000- 4999)
     - 3 credits from each listed below
   - ___ Communication/Composition
   - ___ Humanities/Fine Arts List (HU/FA)
   - ___ Social & Behavioral Science List (EC/PSY/SS)
   - ___ 3 credits from any list

   * EC2001 is recommended for students considering an MBA at MTU.
   ** EC3400 is required by the degree and may NOT be counted as a HASS.

3. **Co-curricular activities (3 units):**
   - In the co-curricular requirement, the three semester units will be physical education activities. These units are required for graduation, but are not included in the calculation of the GPA, nor in the overall degree-credit requirement. Note: most physical education activities will last for 7 ½ weeks or ½ semester. A student would need six of these ½-semester units to fulfill the 3-semester unit co-curricular requirement.
   - PE___________ PE___________ PE_________
   - PE___________ PE___________ PE_________

4. **Engineering Materials Elective (select 3 credits):**
   - ___ CE3101  ___ CS1121  ___ GE2310  ___ MY2100

5. **Technical Electives (22-23 credits):**
   - Select 22 if 4 credits Design Implementation, 23 credits if 3 credits Design Implementation. A minimum of 7 credits must be senior level. These engineering credits should be in a coherent plan of study that is approved by Engineering Fundamentals.
   - (22-23 credits)
   - ___ CE3332  ___ GE2020  ___ MEEM2500*  ___ SSE3730*

   * Courses which are no longer offered

6. **Directed Electives (13 credits):**
   - Select 13 credits in a coherent plan of study such as partial fulfillment of a university approved minor or 'self-defined' program approved by Engineering Fundamentals.
   - (13 credits)

7. **Math Science Electives (9 credits):**
   - Select 9 credits in a coherent plan of study to satisfy prerequisite requirements for the Technical Emphasis and/or Directed Electives approved by Engineering Fundamentals.
   - (9 credits)