BSE Individualized Emphasis 2022-23
(minimum of 125 credits)

Academic questions: E-mail efadvise@mtu.edu

1 Senior Design Prerequisite courses:
ENG1101, ENG1102, ENG2120, ENG3200, ENG3830 (C), and
EE3010.

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**

* EC3400 is required by the degree, and may NOT be counted as a Social Resp./
Ethical Reason or HASS course.

III. 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__________

3 Engineering Design Implementation (select 3 credits):
___ CEE3332  ___ ENG4505  ___ GE3880  ___ MEEM3600

4 Engineering Core Elective (select 3 credits):
___ CEE3101  ___ CS1121  ___ ENG2505  ___ GE2300  ___ MSE2100*

5 Quality Control Elective (select 3 credits):
___ MET4510  ___ MEEM4650  ___ OSM4650

6 Math/Science Elective (select 4-5 credits)*:

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___ __________________________
___ __________________________
___ __________________________

7 Technical Electives (18-19 credits)*:
Select 18 to 19 engineering credits at the 3000+ level in a coherent plan of
study that is approved by the Academic Advisor for the Bachelor of Science
in Engineering program, Department Chair of Engineering Fundamentals
and Academic Dean for the College of Engineering. 12 credits must be
4000+ level.

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8 Directed Electives (9 credits):
Select 9 credits in a coherent plan of study such as partial fulfillment of a
university approved minor, or a self-defined program with the advice of the
BSE Academic Advisor.

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9 Individualized Electives (11 credits):
Select 11 credits in a coherent plan of study that is approved by the
Academic Advisor for the Bachelor of Science in Engineering program,
Department Chair of Engineering Fundamentals, and Academic Dean of the
College of Engineering.

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* If MSE2100 selected, then 4 credit Math/Science Elective and 19 credits
Technical Electives needed.