BSE Systems Emphasis 2022-23
(minimum of 125 credits)
Academic questions: E-mail efadvise@mtu.edu

1. Senior Design Prerequisite courses:
   ENG1101, ENG1102, ENG2120, ENG2505, ENG3200, ENG3505 (C),
   ENG4505 (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.
   ** Optional Business Minor (BUSM) classes may double count here (see #5).

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. Systems Minor Requirements (ESEM) (20 credits):

Required courses (14 credits)
   __ ENG1505 (1)  __ ENG2505 (3)  __ ENG3505 (1)
   __ ENG4300 (3)  __ ENG4505 (3)  __ ENG4515 (3)
   __ (CEE3501 OR CEE3503)  __ CEE4525 (3)

4. Systems (Focus) Directed Electives (12 credits):

Select 9 credits from one of the following groups.

Enterprise (9 credits)
   __ ENT3950 (1) Enterprise Project Work III
   __ ENT3960 (1) Enterprise Project Work IV
   __ ENT4950 (2) Enterprise Project Work V Capstone
   __ ENT4960 (2) Enterprise Project Work VI Capstone
   __ ENT2961 (2) Teaming in the Enterprise
   __ ENT2962 (1) Communication Contexts
   __ ENT3984 (3) Lean Six Sigma Principles OR
     __ ENT3959 (1) Fundamentals of Six Sigma I AND
     __ ENT3967 (1) Design for Six Sigma AND
     __ ENT3982 (1) Continuous Improvement Using Lean Principles

ROTC Air Force (9 credits)
   __ AF3002 (3)  __ AF4001 (3)  __ AF4002 (3)

ROTC Army (9 credits)
   __ AR2002 (1)  __ AR3001 (2)  __ AR3002 (2)  __ AR4001 (2)
   __ AR4004 (2)

Minor (9 credits): Select 9 credits in a coherent plan of study as partial fulfillment of a university minor, with BSE program approval.

5. Optional Business Minor (BUSM) – Add 3-6 credits (18 credits total):

Courses counting toward Business minor:
   __ X_ ACC2000  __ X_ EC3400  __ X_ MKT3000  __ X_ OSM3000
ADD 3 credits from Block III on Business Minor

ENG/OSM4300 can not count for both Systems and Business minor
ADD 3 credits from any Block (many HASS classes)