

BSE Systems Emphasis 2021-22 (minimum of 125 credits) *Academic guestions: 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 $\frac{1}{2}$ weeks or $\frac{1}{2}$ semester. A student would need <u>six</u> of these $\frac{1}{2}$ -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) _X_ ENG1505 (1) _X_ ENG2505 (3) _X_ ENG3505 (1) _X_ ENG4300 (3) _X_ ENG4505 (3) _X_ ENG4515 (3) _X_ (CEE3501 OR CEE3503) _X_CEE4525 (3)
- 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)