

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

Academic questions: E-mail efadvise@mtu.edu

- 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 cree	dits)
UN1015 Composition	
UN1025 Global Issues or 3000+ Modern Language	
Critical/Creative Think List	
Social Resp./Ethical F	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/C	omposition
Humanities/Fine A	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 Mind	or (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 <u>six</u> of these ½-semester units to fulfill the 3-semester unit co-curricular requirement.	
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)
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 <u>Optional</u> 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)