

BSE Systems Emphasis 2023-24 (minimum of 125 credits)

Academic questions: E-mail efadvise@mtu.edu

- 1 Senior Design **Prerequisite courses:**ENG1101, ENG1102, ENG2120, ENG2505, CEE3200, ENG3505, ENG4505, CEE3332, and EE3010.
- 2 General Education Requirements (24 credits + 3 PE units):

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| I. Core Courses (1) | 2 credits) |
| UN1015 Compo | osition |
| UN1025 Global Issues or 3000+ Modern Language | |
| Critical/Creative Think List | |
| Social Resp./Etl | thical 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 | |
| Communicat | tion/Composition |
| Humanities/l | Fine Arts List (HU/FA)** |
| Social & Beh | havioral Science List (EC/PSY/SS)** |
| 3 credits fror | m any list** |
| * EC3400 is required Ethical Reason or H. | d by the degree, and may NOT be counted as a Social Resp. HASS course. |
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| ** Optional Business | s Minor (BUSM) classes may double count here (see #5). |
| III. Co-curricular action the co-curricular reducation activities. in the calculation of most physical education | requirement, the three semester units will be physical. These units are required for graduation, but are not included the GPA, nor in the overall degree-credit requirement. Note: ation activities will last for 7 ½ weeks or ½ semester. A six of these ½-semester units to fulfill the 3-semester unit co |
| III. Co-curricular action in the co-curricular reducation activities. in the calculation of most physical educa student would need curricular requireme | requirement, the three semester units will be physical. These units are required for graduation, but are not included the GPA, nor in the overall degree-credit requirement. Note: ation activities will last for 7 ½ weeks or ½ semester. A six of these ½-semester units to fulfill the 3-semester unit coent. |
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| 3 Systems Minor Requirements (ESEM) (20 credits): | |
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| Required courses (14 credits) _X_ ENG1505 (1) _X_ ENG2505 (3) _X_ ENG3505 (1) _X_ ENG4300 (3) _X_ ENG4505 (3) _X_ ENG4515 (3) | |
| Environmental Engineering and Sustainability <i>(6 credits)</i> _X_ (CEE3501 OR CEE3503) (3) _X_CEE4525 (3) | |
| 4 Systems (<i>Focus</i>) Directed Electives (12 credits): | |
| Select 9 credits from one of the following groups. | |
| Enterprise (9 credits) ENT3950 (1) ENT3960 (1) ENT4950 (2) ENT4960 (2) ENT2961 (2) Teaming ENT2962 (1) Communication Contexts ENT3959 (1) ENT3967 (1) ENT3982 (1) Lean Six & Sigma | |
| 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. | |
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| 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 cannot count for both Systems and Business minors | |
| ADD 3 credits from any Block (many HASS classes) | |