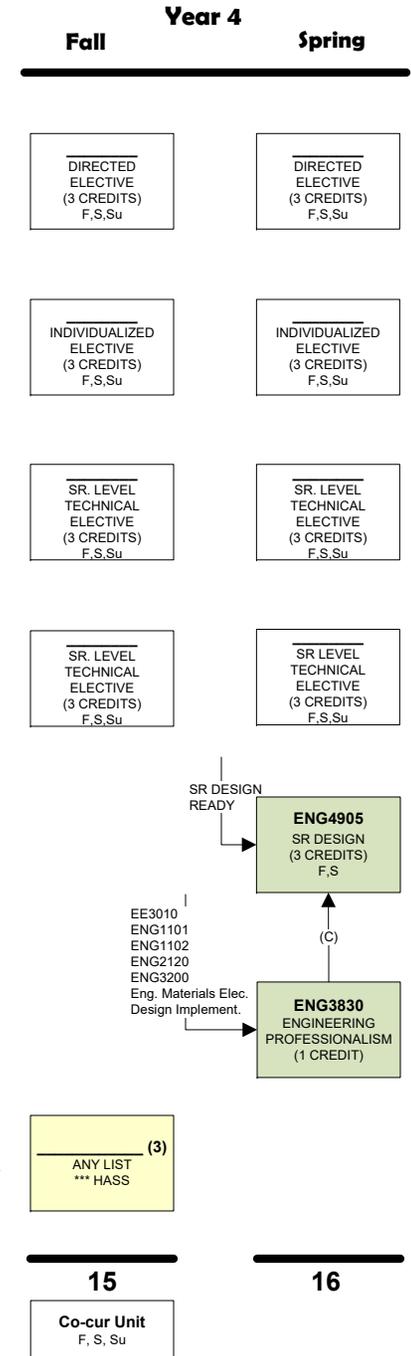
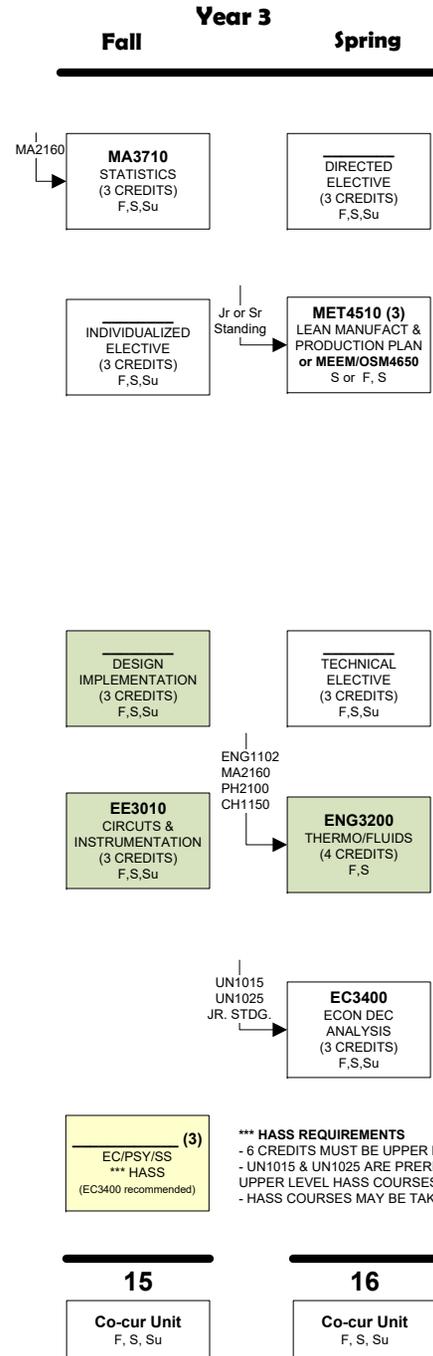
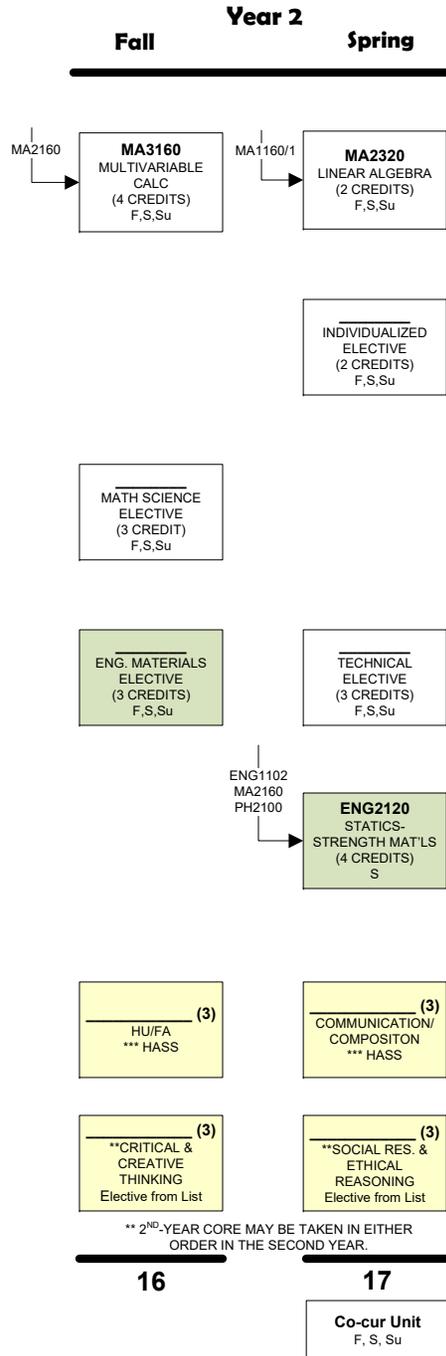
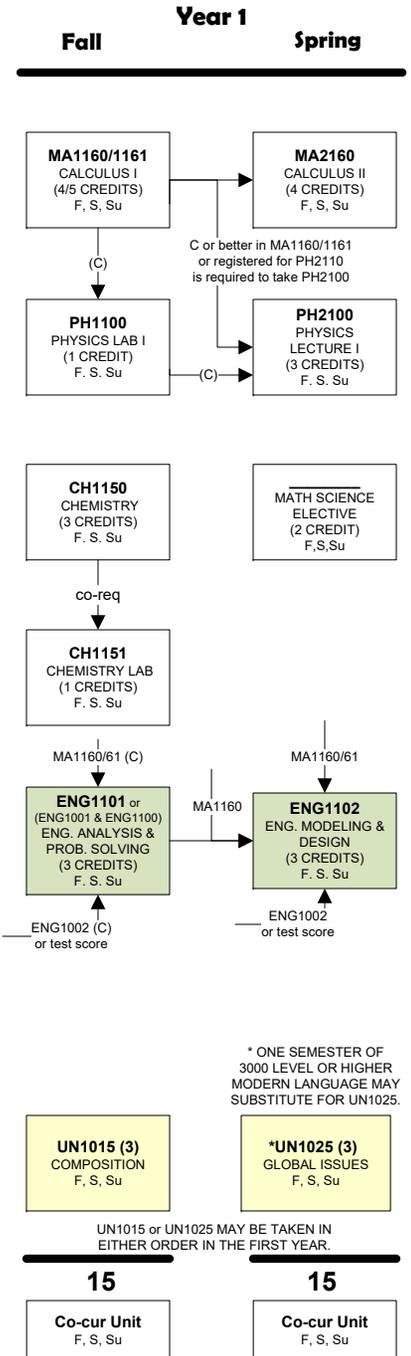
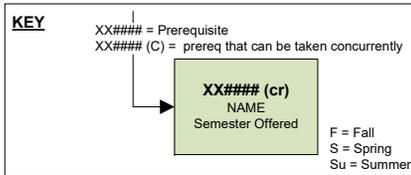


BSE with Individualized Emphasis 2021/22

Updated October 2021

This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.

See back of academic plan for more information on requirements for elective courses.



BSE Individualized Emphasis 2021-22
(minimum of 125 credits)

Academic questions: E-mail eadvise@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)		
<i>(www.admin.mtu.edu/em/documents/HASS Distribution List.pdf)</i>		
- 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
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4 Engineering Materials Elective (select 3 credits):

___ CEE3101	___ CS1121	___ ENG2505	___ GE2300	___ MSE2100*
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5 Quality Control Elective (select 3 credits):

___ MET4510	___ MEEM4650	___ OSM4650
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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.				
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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.				
_____	_____	_____	_____	_____

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.				
_____	_____	_____	_____	_____

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