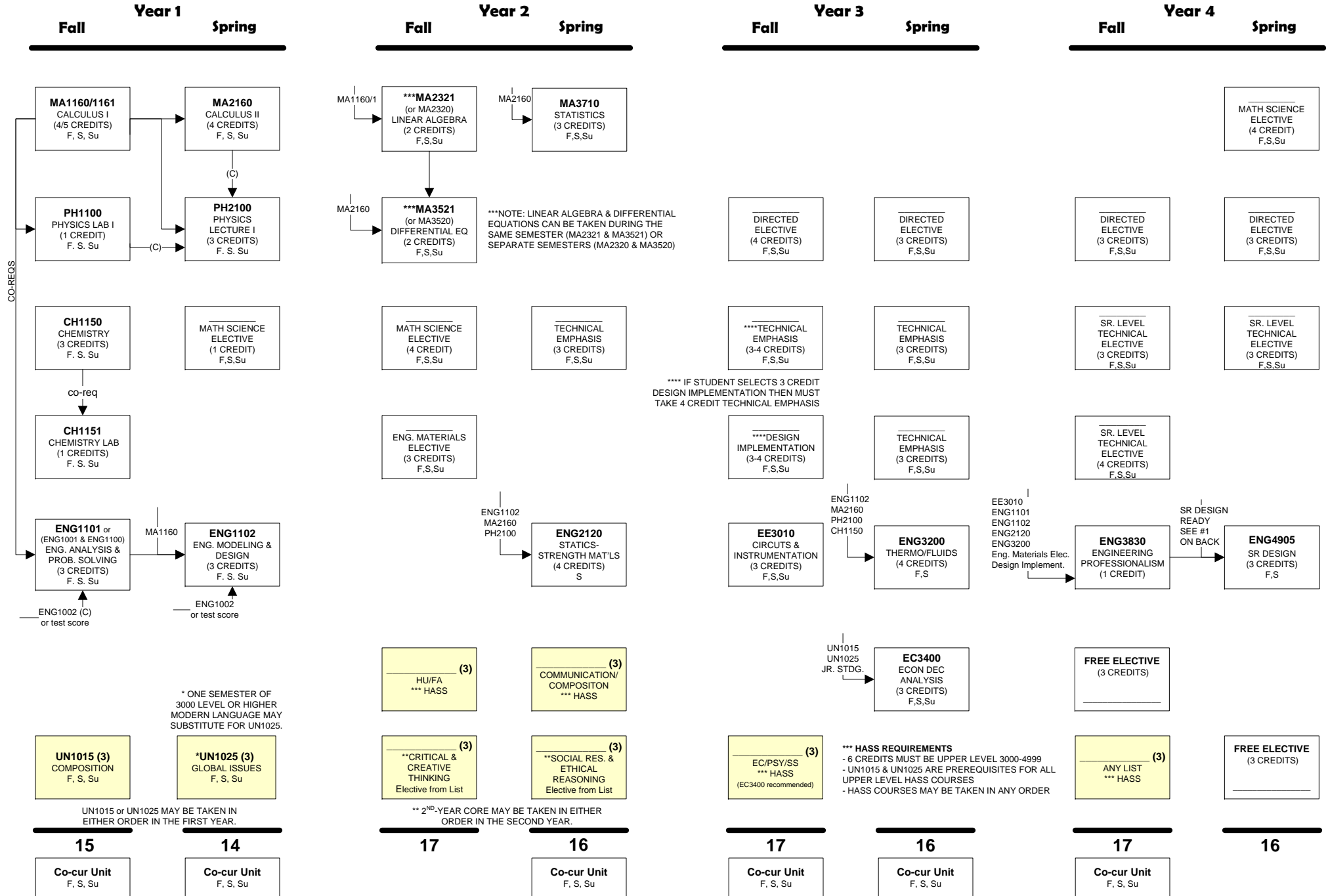
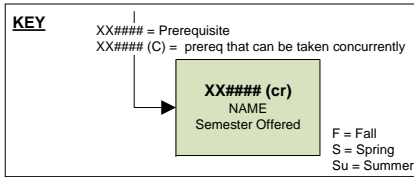


# BSE with Individualized Emphasis 2017/18

Updated May 2017

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 2017-18**  
**(minimum of 128 credits)**

**Academic questions: E-mail eadvise@mtu.edu**

1 Senior Design Ready:

**a. Senior Design Prerequisite courses:**

EE3010, ENG1101, ENG1102, ENG2120, ENG3200, ENG3830,  
 Engineering Materials Elective, Design Implementation Elective.

**b. Core Competency Check test** - Take and pass the test; test topics include all ENG3830 prerequisites except ENG3830 & Design Elective.

2 General Education Requirements (24 credits + 3 PE units):

<b>I. Core Courses (12 credits)</b>		
___ UN1015 Composition		
___ UN1025 Global Issues or 3000+ Modern Language	_____	
___ Critical/Creative Think List	_____	
___ Social Resp./Ethical Reason List	_____	
<b>II. HASS Courses Requirements (12 credits)</b>		
<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	_____	
* <b>EC2001</b> is recommended for students considering an MBA at MTU.		
** <b>EC3400</b> is required by the degree and may <b>NOT</b> be counted as a HASS.		
<b>III. Co-curricular activities (3 units)</b>		
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 <b>six</b> of these ½-semester units to fulfill the 3-semester unit co-curricular requirement.		
PE _____	PE _____	PE _____
PE _____	PE _____	PE _____

3 Design Implementation (select 3-4 credits):

___ CE3332	___ GE2020	___ MEEM2500*	___ SSE3730*
* Courses which are no longer offered			

4 Engineering Materials Elective (select 3 credits):

___ CE3101	___ CS1121	___ GE2310	___ MY2100
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5 Technical Electives (22-23 credits):

Select 22 if 4 credits Design Implementation, 23 credits if 3 credits Design Implementation. A minimum of 7 credits must be senior level. These engineering credits should be in a coherent plan of study that is approved by Engineering Fundamentals. <span style="float: right;">(22-23 credits)</span>	
_____	_____ (___)
_____	_____ (___)
_____	_____ (___)
_____	_____ (___)
_____	_____ (3) (Sr. Level)
_____	_____ (3) (Sr. Level)
_____	_____ (4) (Sr. Level)

6 Directed Electives (13 credits):

Select 13 credits in a coherent plan of study such as partial fulfillment of a university approved minor or 'self-defined' program approved by Engineering Fundamentals. <span style="float: right;">(13 credits)</span>	
_____	_____ (___)
_____	_____ (___)
_____	_____ (___)
_____	_____ (___)

7 Math Science Electives (9 credits):

Select 9 credits in a coherent plan of study to satisfy prerequisite requirements for the Technical Emphasis and/or Directed Electives approved by Engineering Fundamentals. <span style="float: right;">(9 credits)</span>	
_____	_____ (___)
_____	_____ (___)
_____	_____ (___)