EngineeringPlus Emphasis 2021/22

Updated September 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.

**Fall Year 1**
- MA1160/1161 CALCULUS I (4/5 CREDITS) F, S, Su
- PH1100 PHYSICS LAB I (1 CREDIT) F. S. Su
- CH1150 CHEMISTRY (3 CREDITS) F. S. Su
- ENG1101 or (ENG1001 & ENG1100) ENG. ANALYSIS & PROB. SOLVING (3 CREDITS) F, S, Su
- Co-cur Unit

**Spring Year 1**
- MA1160/61 CALCULUS I (4/5 CREDITS) F, S, Su
- CH1150 CHEMISTRY LAB (1 CREDIT) F. S, Su
- MA1160 CALCULUS II (4 CREDITS) F, S, Su
- ENG1102 ENG. ANALYSIS & PROB. SOLVING (3 CREDITS) F, S, Su
- MA160 PHYSICS LECTURE I (3 CREDITS) F. S, Su
- PH1100 PHYSICS LAB I (1 CREDIT) F, S, Su
- ENG1102 ENG. ANALYSIS & PROB. SOLVING (3 CREDITS) F, S, Su
- MA1160/61 CALCULUS I (4/5 CREDITS) F, S, Su
- MA1160/61 CALCULUS II (4 CREDITS) F, S, Su
- MA1160 CALCULUS II (4 CREDITS) F, S, Su
- MA160 PHYSICS LECTURE I (3 CREDITS) F. S, Su
- CH1150 CHEMISTRY LAB (1 CREDIT) F. S, Su
- MA1160/61 CALCULUS I (4/5 CREDITS) F, S, Su
- CH1150 CHEMISTRY LAB (1 CREDIT) F. S, Su
- MA1160/61 CALCULUS I (4/5 CREDITS) F, S, Su
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- CH1150 CHEMISTRY LAB (1 CREDIT) F. S, Su
- MA1160/61 CALCULUS I (4/5 CREDITS) F, S, Su
- CH1150 CHEMISTRY LAB (1 CREDIT) F. S, Su

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

Academic questions: E-mail  efadvise@mtu.edu

1  Senior Design Prerequisite courses:
ENGI101, ENGI1102, ENGI2120, ENGI3200, ENGI3830 (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.

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:
mmost 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  Quality Control Elective (select 3 credits):

___ MET4510  ___ MEEM4650  ___ OSM4650

4  Math/Science Elective (select 4 credits):

_________  __________  __________  __________

5  Technical Electives (12 credits):

Select 12 credits 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. 6 credits
must be 4000+ level.

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6  Directed Electives (15 credits):

Select 15 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.