**BS EE  Engineering Enterprise Concentration**

**2016-2017 catalog term 201608**

**Sample Plan**

**Engineering Enterprise Concentration**

**ENT3960 (1) Engineering Enterprise Concentration**

- **Sem. 1 - Fall**
  - (calculus-ready students)
  - Optional: Enterprise participation
  - Co-hort courses
    - MA1160/61 (4/5)
      - Calculus I
    - PH1100 (1)
      - Physics I Lab
    - EN1101/3 (1)
      - Eng Analysis
  - MA1160/61 (C)
  - Spatial Visualization Test
  - CH1150/51 (4) & CH1153 (1)
    - Univ Chem I

**Sem. 2 - Spring**

- Co-hort courses
  - MA2160 (4)
    - Calculus II
  - PH2100 (1)
    - Physics I
  - ENG1102 (3)
    - Model & Design
  - MA2160/61 (C)
  - MA2160 (C)
  - Electrical Engineering at Michigan Tech.

**Sem. 3 - Fall**

- Co-hort courses
  - EE1110 (1)
    - Essential Math (track A)
  - EE1111 (1)
    - Intro to ECE (Track B)
  - CH1150/51 (4) & CH1153 (1)
    - Univ Chem I
  - PH1100 (1)
    - Physics I Lab
  - PH2200 (3)
    - Univ Physics 2
  - CS1111 (3)
    - Intro C/C++ Programming

**Sem. 4 - Spring**

- Co-hort courses
  - MA3160 (4)
    - Multi-Variable Calculus
  - EE2112 (4)
    - Electric Circuits I
  - EE2117/4 (4)
    - Digital Logic & Lab
  - CS1111/4 (4)
    - Select Approved Elec (2)

**Sem. 5 - Fall**

- Enterprise project work sequence:
  - MA2321 (2)
    - Accelerated Linear Alg Track A
  - MA3521 (2)
    - Accel. Diff. Eq.
  - EE3120 (3)
    - Electric Energy Systems
  - EE3140 (3)
    - Electro-magnetics
  - EE3140 (3)
    - Electro-magnetics
  - CS1111/4 (4)
    - Select Approved Elec (2)

**Sem. 6 - Spring**

- Enterprise project work sequence:
  - MA2321/20 (2)
    - Accelerated Linear Alg Track A
  - MA3521/20 (2)
    - Accel. Diff. Eq.
  - EE3160 (3)
    - Signals & Systems
  - EE3160 (3)
    - Signals & Systems
  - CS1111/4 (4)
    - Select Approved Elec (2)

**Sem. 7 - Fall**

- Enterprise project work sequence:
  - MA2321/20 (2)
    - Accelerated Linear Alg Track A
  - MA3521/20 (2)
    - Accel. Diff. Eq.
  - EE3160 (3)
    - Signals & Systems
  - EE3160 (3)
    - Signals & Systems
  - CS1111/4 (4)
    - Select Approved Elec (2)

**Sem. 8 - Spring**

- Enterprise project work sequence:
  - MA2321/20 (2)
    - Accelerated Linear Alg Track A
  - MA3521/20 (2)
    - Accel. Diff. Eq.
  - EE3160 (3)
    - Signals & Systems
  - EE3160 (3)
    - Signals & Systems
  - CS1111/4 (4)
    - Select Approved Elec (2)

**Total 128**

**Recommended HASS: EC3400**

**GRADUATION Checklist:**

1. Apply to graduate 1 or 2 semesters before your last one. Date: ______________

2. FINAL degree audit review: Meet with the advisor at the end of the semester before your last, after scheduling last set of classes and reviewing your degree audit report:

   - Final Audit Date: ______________  Advisor check: ______________

**Undergraduate advisor:**

EERC 131. Call 487-2550 to schedule appt.  eceadvise@mtu.edu

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**Study Abroad Info:**

- Tue 11am or Thur 2pm
- Admin bldg 200

**Attend Feb. Career Fair:**

- Semester 5 is a good time to co-op or study abroad.

**Concurrent prerequisite**

(a prerequisite that can be taken concurrently)

* Schedule a minimum of 14 credits if taking accelerated Linear Alg/Diff Eq

1) 2) 3) 4) 5) See reverse side for planning and General Education info.

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**Recommended HASS: EC3400**

**Total 128**

plus 3 units co-curricular activities
Choose correct courses each semester. Run and review your online Degree Audit each time you add, drop or switch courses and **before** each semester begins. Banweb – Student Records – Degree Audit (Do not select from pull-downs, just Run, Run, wait, then click blue link)

Lists of electives and required courses are included in your online degree audit report. It is your responsibility to choose correct courses.

1) **Choose one course from each list for General Education requirements:** View lists online or in your degree audit report.

   Critical & Creative Thinking list: FA2330, FA2520, FA2720, FA2820, HU2130, HU2501, HU2503, HU2538, HU2700, HU2820, HU2910, SS2300, TA9004L

   Social responsibility & Ethical Reasoning list: EC2001, PSY2000, SS2100, SS2200, SS2400, SS2500, SS2501, SS2502, SS2503, SS2504, SS2505, SS2600, SS2610, SS2700, TA9008L

   **HASS lists:** at least 6 credits must be at Upper Level 3000-4999.

   **HASS Composition/Communication:** HU2810, HU2830, HU3015, HU3120, HU3151, HU3693, HU3694, HU3832, HU4628, HU9305L, HU9305U

   **HASS Social and Behavioral Science (EC/PSY/SS) choice:**

   **HASS Humanities and Fine Arts (HU/FA) choice:**

   **HASS any list:** Upper level if needed.

2) **SELECT Approved Elective course list:** choose one course

   EE/EET3373, ENG2120, ENG3200, ENG4510, MEEM2110, MEEM2150, MEEM2201, MEEM2700, MY2100, MY4292, PH2300, PH2400, PH3300 (not required for biomedical or environmental applications concentrations)

3) Remaining **Approved Electives:** refer to your degree audit for list of valid courses. Ex: Engineering, Math, CS, Physics, Chem. Pass/fail courses do not count.

4) **EE Electives:** 15 credits (3-12 cr. w/ concentration) of EE lecture/lab coursework. Excludes research, pass/fail, project, co-op, or independent study credits. Look for semester offerings in the online Schedule of Classes. Look for pre-requisite and other course information by clicking the CRN, or in the online Course Descriptions.

   EE elective courses are offered once per year, or in alternating years (ex. EE4240, EE5223, EE5250). Check online Course Descriptions and the Schedule of Classes for the most up-to-date course information.

5) ****Engineering Design Requirements:** 4 – 6 credits

   Option 1: “Senior Design”, 4 credits, is the year-long company sponsored project team. EE4901(2) and EE4910(2) taken in fall-spring, or MEEM4901(2) and MEEM4911(2) taken in spring-fall or fall-spring. May use EPS-European Project Semester for Design Option 1, which includes EE3901 credit.

   Option 2: “Enterprise” – 6 credits, 4 semesters of project work beginning at the point in time when you have 4 semesters left on campus:

   ENT3950(1), ENT3960(1), ENT4950(2) and ENT4960(2). Reduces “Approved Electives” by 2 credits if applicable. ENT1960, ENT2950, and ENT2960 may not count in engineering design, but may be used in approved or free electives.

6) Free Elective: a good use of Free Elective: CH1153, MA1161 5th credit, Enterprise 2000-level project work, or excess transfer credits. Cannot use co-curricular activities.

**Concentration Electives:** See your Degree Audit Report in Banweb for list of valid electives with a concentration, or see the Degree Services .pdf audit for the BSEE with a concentration you are interested in: [http://www.mtu.edu/registrar/students-major-degree/audit/engineering/](http://www.mtu.edu/registrar/students-major-degree/audit/engineering/) A concentration is not required.