BSEE Biomedical Applications Concentration

2017-2018 catalog term 201708

Sem. 1- Fall
(calculus-ready students)

ENT1960(1)

ENT2950(1)

ENT2960(1)

ENT4950(2)

ENT4960(2)

Calculus-ready students

Biomedical Applications Concentration

BSEE catalog term 201708

Sem. 7 - Fall

ENT4950 & ENT4960: take in same enterprise & consecutive semesters.

Sem. 2 - Spring

Optional: Enterprise participation

Pre-requisite, co-requisite, semester offerings, course requirements and restrictions in the course catalog and Schedule of Classes.

Register MA1160/61 (4)

Biomechanics focus – follow pink path

Biomaterials focus – follow blue path

Biomechanics path:

Biomaterials path:

Choose at least 6 credits of 3000-4999 HASS

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: ____________

Total 128

plus 3 units co-curricular activities

Undergraduate advisor:

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

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

BEA electives: fall - BE3300, 3800, 4755 Alt fall-BE4610 even, BE4700 odd

spring – BE2800, BE3350 Alt spg-BE4250 odd

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

Sample Plan

Calculus-ready students

Choose at least 6 credits of 3000-4999 HASS

Recommended HASS: EC3400

Total 128

plus 3 units co-curricular activities

Undergraduate advisor:

EERC 131. Call 487-2550 to schedule appt. eceadvice@mtu.edu
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: Verify scheduled course choices 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 Social and Behavioral Science (EC/PSY/SS) 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 (SELECT approved elective 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 credits, varies 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/ A concentration is not required.