Name _____________________________________________ UID#  U____________________________

TOTAL SEMESTER CREDIT HOURS

2018-2019
Bachelor of Science
Biomedical Engineering - Curriculum B- Pre-Med
2018-2019

**Note:**
- Cells and Genes is required.
- General Chemistry I is required.
- General Chemistry I Lab is required.
- Calculus II is required.
- Calculus I is recommended.
- English (E-1) is required.
- MTH 2300 is required.
- MTH 2310 is required.
- PHY 2400 is required.
- PHY 2410 is required.
- PHY 2410Lc is required.
- PHY 2410Lc is required.
- PHY 2420Lc is required.
- PHY 2420Lc is required.
- PHY 2420Lc is required.
- Pre/Co-requisites:
  - MTH 2300 Grade C or Better, PHY 2400
  - CHM 1210c, CHM 1220c
  - MTH 2310
  - CHM 1220c

**Pre/Co-requisites:**
- BIOS 111, BIO 112
- BME 3212, BME 3512, ANT 3100, EGR 3350
- ANT 3120, PHY 2410
- BME 3511, BME 3512
- MTH 2300, (MTH 2310, PHY 2410)
- CHM 1210c, CHM 1220c
- CHM 1220c
- MTH 2300
- PHY 2400, MTH 2300
- PHY 2410Lc
- MTH 2310
- CHM 1210c, CHM 1220c
- CHM 1220c
- MTH 2300
- PHY 2400

**Credit Hours Per Semester in the Model Program:**
- 15 12 0

**Meet or exceeds ABET minimum requirements of 37.5% engineering credit hours (45 semester credit hours).**
General Information:
1. **Curriculum A** prepares the graduate for the engineering industry employment. Graduates are also prepared for graduate training in biomedical engineering or in a traditional engineering area.
2. **Curriculum B** also satisfies the admission requirements for medical, osteopathic, dental, or veterinary schools. Graduates are also well prepared to pursue graduate training in engineering or the life sciences.
3. **Program Planning** - the student, in cooperation with his/her advisor, should use a Program Guide and the corresponding catalog to plan his/her program. Any problem which arises in connection with a particular Program Guide should be referred to the student's advisor.

* 4 Except for BME 3211 & 3212, students must have met the CECS entrance requirements in order to register for CECS courses number 3000 or higher.

Additional Requirements:
- Students are required to have two Multicultural Competence courses from any of the Wright State Core MC designated courses, Study Abroad courses, or Service Learning courses.
- Students are also required to have two Integrated Writing (IW) courses from the Wright State Core.

NOTES:
1. Use this guide, advisor consultations, and the Undergraduate Catalog to carefully plan a program of study. Most courses are offered only once or twice a year. Complete mathematics and physics courses early since they are prerequisite to many engineering courses. Delaying these courses may delay completion of the program. Pay close attention to prerequisite and corequisite information listed on the right of the guide.

2. In the right hand columns
   - (★) denotes courses in a model program with a non-conflicting schedule for a full-time student;
   - (a) denotes courses likely to be available;
   - (.) denotes courses normally not available. Check the Class Schedule for current information.

3. Course number in { } denotes may be either a prerequisite or corequisite course.

4. Course number followed by "c" denotes a corequisite course.

5. *CHM 2110 offered Summer A Term
   *CHM 2120 offered Summer B Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Pre-req</th>
<th>Fa</th>
<th>Sp</th>
<th>Su</th>
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</thead>
<tbody>
<tr>
<td>BME 4610 (3)</td>
<td>Clinical Engineering in the Developing World.................................PHY 2410, (Application and Department Permission)</td>
<td>.</td>
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<tr>
<td>BME 4950 (3)</td>
<td>Undergraduate Research in Biomedical Engineering II ...........................(Department Permission)</td>
<td>a</td>
<td>a</td>
<td>a</td>
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<tr>
<td>BME 4990 (3)</td>
<td>Undergraduate Independent Studies in Biomedical Engineering II ..............(Department Permission)</td>
<td>a</td>
<td>a</td>
<td>a</td>
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<tr>
<td>EGR 3940/4940</td>
<td>Engineering Internship.................................................................30 hours of internship will count as a 3 credit hour technical elective</td>
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<tr>
<td>BME 4350 (3)</td>
<td>Computational Neuroergonomics &amp; Healthcare Applications....................BME students must submit a pre-req petition to take this course</td>
<td>a</td>
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<td>BME 4980 (3)</td>
<td>Tissue Engineering &amp; Regenerative Medicine...........................................ANT 3120 and BME 4440</td>
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<td>BME 4710 (3)</td>
<td>Optical Imaging..................................................................................PHY 2410 and PHY 2410L</td>
<td>a</td>
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