Track 3  
Career Emphasis:  
Computational Biomedical Engineering

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tr>
<td>BME 245L M</td>
<td>BME 343 M</td>
<td>BME 261L M</td>
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<tr>
<td>Experimental Prin of BME Design</td>
<td>BME Signal and Systems Analysis</td>
<td>Development / Analysis in BME Design</td>
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<tr>
<td>BIO 206L, BME 311, BME 214L</td>
<td>BME 311 &amp; 113L, BME 365R</td>
<td>BME 343</td>
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<td>BME 333T &amp; 335</td>
<td>M 427JK</td>
<td>BME 245L</td>
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<td>BME 261L M</td>
<td>BME 349 M</td>
<td>BME 371 M</td>
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<td>Development / Analysis in BME Design</td>
<td>Biomedical Instrumentation</td>
<td>Biomedical Engr. Capstone Design II</td>
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<tr>
<td>BME 343, BME 245L</td>
<td>BME 343</td>
<td>BME 370</td>
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<td>BME 335 &amp; 355</td>
<td>BME 261L &amp; 365S</td>
<td>BME 335</td>
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<td>BME 343</td>
<td>GOV 310L C</td>
<td>GOV 312L/P C</td>
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<td>American Government</td>
<td>Social &amp; Behavioral Sci. from Approved List</td>
<td>Topics in Government</td>
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<td>VAPA</td>
<td>US History C</td>
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<td>Visual &amp; Performing Arts from Approved List</td>
<td>Approved US History Course</td>
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<td>* Must take E 316L, 316M, 316N or 316P</td>
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*Computational Biomedical Engineering Technical Electives:*

Choose 12 Credit Hours from the following:

- **EE 319K** T  
  Introduction to Embedded Systems
  (BME 303)
- **EE 312** T  
  Software Design & Implementation I
  (BME 303, EE 319K)
- **M 325K** T  
  Discrete Mathematics
  (M 408D)
- **EE 422C** T  
  Software Design & Implementation II
  (EE 312, Lab)
- **EE 360C** T  
  Algorithms
  (EE 312, M 325K)
- **EE 346** T  
  Computational Biomolecular Engr.
  (BCH 369 & BIO 311C, BME 113L, CH 353(M), M 427JK)
- **BME 348** T  
  Modeling of BME Systems
  (BME 113L & 343)
- **BME 358** T  
  Medical Decision Making
  (BME 335 & 365R)
- **M 340L** T  
  Matrices and Matrix Calculations
  (M 408C)
- **BME/E E** T  
  See the Course Catalog for more options

**Legend**

- **B** Basic Sequence
- **C** Core Curriculum
- **M** Major Sequence
- **S** Supporting Course
- **T** Technical Area
- **PRE-REQ** Pre-requisite
- **CO-REQ** Co-requisite

Revised: 8/4/2015, SCD