Highly recommended for all emphasis areas: **Engr2100 Circuit Theory** (to prepare for BE4380)

**Bioenvironmental Emphasis**
- **BE 4150**  
  **Soil and Water Conservation Engineering**
- **BE 4250**  
  **Irrigation and Drainage Engineering**
- **BE 4350**  
  **Watershed Modeling Using GIS**
- **ChE 4285**  
  **Pollution Prevention**
- **ChE 4312**  
  **Air Pollution Control**
- **CvE 3050**  
  **Introduction to Geographic Information Systems GIS**
- **CvE 3200**  
  **Fundamentals of Environmental Engineering (4)**
- **CvE 3400**  
  **Fundamentals of Geotechnical Engineering (4)**
- **CvE 3702**  
  **Hydrology**
- **CvE 4230**  
  **Introduction to Water Quality**
- **CvE 4240**  
  **Water Quality Analysis**
- **CvE 4250**  
  **Environmental Regulatory Compliance**
- **Geog4940**  
  **Advanced Geographic Information Systems (GIS2)**
- **IMSE 4001**  
  **Life Cycle Analysis**

**Bioprocessing Emphasis**
- **BE 3075**  
  **Introduction to Materials Engineering (online Summer, not Fall)**
- **BE 3170**  
  **Biomaterials**
- **BE 4480**  
  **Physics and Chemistry of Materials**
- **BE/ChE 4315**  
  **Introduction to Bioprocess Engineering**
- **BE/ChE 4316**  
  **Biomass Refinery Operations**
- **ChE 3235**  
  **Principles of Chemical Engineering II**
- **ChE 4319**  
  **Introduction Polymer Materials**
- **ChE 3262**  
  **Chemical Engineering Thermodynamics II**
- **ChE 4363**  
  **Chemical Reaction Engineering and Technology**
- **IMSE 4001**  
  **Life Cycle Analysis**

**Biomedical Emphasis**
- **BE 3075**  
  **Introduction to Materials Engineering (online Summer, not Fall)**
- **BE 3170**  
  **Biomaterials**
- **BE 4070**  
  **Bioelectricity**
- **BE 4170**  
  **Biomaterials Interfaces for Implantable Devices**
- **BE 4370**  
  **Orthopaedic Biomechanics**
- **BE 4420**  
  **Introduction to Biomedical Imaging (online Summer, not Fall)**
- **BE 4470**  
  **Biomolecular Engineering & Nanobiotechnology**
- **BE 4480**  
  **Physics and Chemistry of Materials**
- **BE 4570**  
  **Fluorescent Imaging**
- **BE 4575**  
  **Computational Neuroscience (4)**
- **BE 4770**  
  **Biomedical Optics**

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