### BEng in Bioengineering

#### Major Requirements

**Engineering Fundamental Courses**
- **MATH 1012** Honors Calculus I
- **MATH 2012** Accelerated Calculus

**School Requirements**
- **LIFS 1901** General Biology I
- **CHEM 1050** Laboratory for General Chemistry I
- **ENGG 1010** Academic Orientation
- **CORE C1 & C2** U CORE - English Language
- **LANG 4035** Technical Communication II for Chemical and Biological Engineering
- **TEMG 3950** Case-based Problem Solving

**Major Required Courses and Electives**
- **BIEN 2410** Cellular and Systems Physiology for Engineers
- **BIEN 2610** Chemical Biology for Engineers
- **BIEN 3240** Transport Phenomena in Biological Systems
- **BIEN 3320** Data Science for Biology and Medicine
- **BIEN 3410** Introduction to Bioinstrumentation and Bioimaging
- **CENG 2210** Chemical and Biological Engineering Thermodynamics
- **CENG 3230** Chemical and Biological Reaction Engineering

**Additional Requirements**
- **MGM 2110** Organizational Behavior
- **MARK 2120** Marketing Management

**Program: Dual Degree Program (BEng in Bioengineering and BBA in Management)**

---

Note: **Required credits for Engineering Fundamental Courses**

---

Note: **Required credits for Major Required Courses and Electives**

---

Note: **Required credits for School Requirements**

---

Note: **Required credits for Major Required Courses and Electives**