BSE - BIOE Program – Entering Class of 2005

FRESHMAN | SOPHOMORE | JUNIOR | SENIOR

Engineering
39 core hours + 24 concentration hours

- ICEE 1010 (6) Integrated Collaborative Engineering I
- ICEE 1020 (6) Integrated Collaborative Engineering II
- ICEE 2010 (4) Integrated Collaborative Engineering III
- ICEE 2020 (4) Integrated Collaborative Engineering IV
- ICEE 3010 (3) Engineering Systems & Problem Solving
- ICEE 3020 (3) Information Systems Engineering
- ICEE 4010 (2) Senior Capstone Design I
- ICEE 4020 (2) Senior Capstone Design II

PHYS 2350 → ICEE 2010; PHYS 2360 → ICEE 2020; MATH 3307 → BIOE 4000; MATH 2172 → MATH 3307; ENGL 1200 → ICEE 3300

Math/Science
34 hours

- Free Elective Or MATH 1083 (3) Introduction to Functions
- MATH 2171 (4) Calculus I
- MATH 2172 (4) Calculus II
- MATH 3100 (4) Math Methods For Engineers & Scientists
- MATH 3307 (3) Mathematical Statistics I
- ICEE 3300 (3) Intro to Engr Project Management
- BIOE 4000*(4) Bioprocess Validation & Quality Eng.
- TECH Elective (3)
- ICEE 3060 (3) Systems Optimization
- BIOE 3000 (3) Bioprocess Engineering
- BIOE 4010 (3) Bioprocess Separation
- BIOE 4020 (3) Bioprocess Plant Design, Sim, & Anlys
- BIOL 1100/1101 (4) Principles of Biology
- CHEM 1150/1151 (4) General Chemistry
- PHYS 2350 (4) University Physics I
- PHYS 2360 (4) University Physics II
- CHEM 2650/51 (5) Organic
- TECH Elective (3)
- BIOL 2110 (3) Microbiology

BIOL 1101/1 CHEM 1150/1

Note: This chart is for planning purposes only. Consult your advisor and the academic catalog to ensure that all requirements are met

* BIOE 4000 replaces catalog requirement of ICEE 4000 plus 1 hour towards the concentration

General
31 hours

- ENGL 1100 (3) Composition
- ENGL 1200 (3) Composition
- Humanities/ Fine Arts Elective (3)
- HLTH 1000 (2) Health in Modern Society
- Social Sciences Elective (3)
- Humanities/ Fine Arts Elective (2)
- EXSS 1000 (1) Lifetime Physical Activity
- PHIL 2275 (3) Professional Ethics

Cumulative Credit Hours / Credit Hours/Semester

16	17/33	17/50	17/67	17/84	16/100	14/114	14/128