BSAE Electives

Science Electives

BLY 121 - General Biology I (3 cr)
CH 132 - Gen Chemistry II (3 cr)
GY 111 - Physical Geology (3 cr)
PH 303 - Modern Physics (4 cr)
ST 315 - Applied Probability-Statistics (3 cr)
MA 316 - Linear Algebra II (3 cr)
MA 354 - Comp Assist Math Modeling (3 cr)
MA 437 - Complex Variables (3 cr)

AE Electives (3 cr)

ME 422 - Gas Turbines
ME 438 - Finite Element Analysis
ME 461 - Turbomachinery
EG 450 - Intro to Systems Engineering
AE 490 - Special Topics
AE 494 - Directed Independent Study
AE 499 - Honors Thesis
BME 467 - Intro to Biomedical Engineering

Technical Electives

BLY 121 - General Biology I (3 cr)
BLY 122 - General Biology II (3 cr)
CH 201 - Organic Chemistry I (3 cr)
CH 202 - Organic Chemistry II (3 cr)
GY 305 - Geophysics (4 cr)
GY 310 - Environmental Earth Science (3 cr)
PH 303 - Modern Physics (4 cr)
ST 315 - Applied Probability-Statistics (3 cr)
ST 320 - Applied Statistical Analysis (3 cr)
CIS 190 - Python & AI (3 cr)
MA 316 - Linear Algebra II (3 cr)
MA 332 - Diff Equations II (3 cr)
MA 334/486 - Advanced Calculus I (3 cr)
MA 335/487 - Advanced Calculus II (3 cr)
MA 354 - Comp Assist Math Modeling (3 cr)
MA 436 - Numerical Analysis (3 cr)
MA 437 - Complex Variables (3 cr)
MA 451 - Probability (3 cr)

- **Elective requirements for the BSAE without a track**:

  One Science Elective: _____ One AE Elective: _____

  Two additional AE/Technical Electives: _____ _____