



## MABE 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)

### ME Electives (3 cr)

ME 411 - Thermal System Design

ME 438 - Finite Element Analysis

ME 450 - Heat Vent and Air Conditioning

BME 467 - Intro to Biomedical Engineering

AE 361 - Fundamentals of Aerodynamics

AE 464 - Principles of Spacecraft Design

AE 468 - Principles of Aircraft Design

AE 470 - Aircraft Structural Analysis

ME 490 - Special Topics

ME 494 - Directed Independent Study

ME 499 - Honors Thesis

### 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)

MA 316 - Linear Algebra II (3 cr)

MA 332 - Diff Equations II (3 cr)

MA 334 - Advanced Calculus I (3 cr)

MA 335 - 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)

EG 450 - Intro to Systems Engineering (3 cr)

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

One Science Elective: \_\_\_\_\_ One ME Elective: \_\_\_\_\_

Two additional ME/Technical Electives: \_\_\_\_\_

- **Elective requirements for the BSME with the AE or BME tracks:** See the curriculum flowchart