

# AERONAUTICAL ENGINEERING MAJOR

4<sup>o</sup>

Fall

Spring

**CS 110**  
Introduction to Computing

**Chem 100**

**For Lang 1**

**For Lang 2**

**History 100**

**Physics 110**

**Beh Sci 110**

**English 111**

**Math 141**  
Calculus I

**Math 142**  
Calculus II

3<sup>o</sup>

Fall

Spring

**AE 210**  
Fundamentals of Aeronautics

**AE 241**  
Aero Thermo Fluids I

**EM 220**  
Fundamentals of Mechanics

**EM 330**  
Deformable Bodies

**Physics 215**

**Chem 200**

**Econ 201**

**MSS 251**

**Math 243**  
Calculus III

**Math 245**  
Differential Eqns

**CS 206**  
Fundamentals of Programming

2<sup>o</sup>

Fall

Spring

**AE 341**  
Aero Thermo Fluids II

**AE 342**  
Computational Aerodynamics

**AE 351**  
Acft Performance & Static Stability

**AE 352**  
Aircraft Dynamic Stability & Control

**EM 350**  
Materials

**AE 361**  
Propulsion I

**ECE 315**

**Law 220**

**Math 346**  
Engineering Math

**Math 356**  
Prob & Stats for Eng

**PolSci 211**

**English 211**

1<sup>o</sup>

Fall

Spring

**AE 442**  
Advanced Aerodynamics

**AERO ELECTIVE**

**AE 471**  
Aeronautics Laboratory

**DESIGN ELECTIVE**

**AE 481**  
Acft & Propulsion Sys Design

**Soci-cultural Option**

**AE 436**  
Aeroelasticity

**Astro 310**

**SocSci 311**

**History 300**

**Philos 310**

## LEGEND

- Aerodynamics
- Experimental Investigations
- Aircraft and Propulsion System Design
- Aircraft Flight Mechanics, Stability, and Control
- Propulsion
- Aerospace Materials and Structures

Core Course

Aero Major

## DESIGN ELECTIVES

**AE 482**  
Aircraft Design

**AE 483**  
Aircraft Engine Design

## AERO ELECTIVES

**AE 446**  
Introduction to Hypersonics

**AE 447**  
Advanced Applied Aerodynamics

**AE 456**  
Flight Test Techniques

**AE 457**  
Aircraft Feedback Control Systems

**AE 466**  
Propulsion II

**AE 472**  
Adv Computational Aerodynamics

**AE 499**  
Independent Study

**EM 431**  
Intro. to Finite Element Analysis

**EM 450**  
Aero Composite Materials