Aerospace Engineering

**FIRST YEAR**
- **FALL**: AME 105
- **SPRING**: ITP 168
- **FALL**: ENGR 102
- **SPRING**: PHYS 151L
- **FALL**: MATH 125
- **SPRING**: MATH 126
- **FALL**: CHEM 105aL or MASC 110L
- **SPRING**: WRIT 150
- **GEN ED**

**SECOND YEAR**
- **FALL**: AME 201
- **SPRING**: AME 204
- **FALL**: PHYS 152L
- **SPRING**: AME 231L
- **FALL**: AME 261
- **SPRING**: AME 301
- **FALL**: AME 308
- **SPRING**: AME 309
- **GEN ED**

**THIRD YEAR**
- **FALL**: AME 302
- **SPRING**: AME 341bL
- **FALL**: TECHNICAL ELECTIVE
- **SPRING**: TECHNICAL ELECTIVE
- **FALL**: AME 404
- **SPRING**: AME 451
- **FALL**: TECHNICAL ELECTIVE
- **SPRING**: WRIT 340
- **GEN ED**

**FOURTH YEAR**
- **FALL**: AME 436
- **SPRING**: AME 481
- **GEN ED**

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**ENGINEERING**
- AME 105: Intro. to Aerospace Engineering
- AME 201: Statics
- AME 204: Strength of Materials
- AME 231L: Mechanical Behavior of Materials
- AME 261: Basic Flight Mechanics
- AME 301: Dynamics
- AME 304: Dynamic Systems
- AME 308: Comp. Aided Analyses for Aero-Mechanical Design
- AME 309: Dynamics of Fluids
- AME 310: Engineering Thermodynamics I
- AME 341aL: Mechatronics Laboratory I
- AME 341bL: Mechatronics Laboratory II
- AME 404: Comp. Solutions to Engr. Problems
- AME 436: Energy and Propulsion
- AME 441aL: Senior Projects Laboratory
- AME 451: Linear Control Systems I
- AME 481: Aircraft Design
- ASTE 280: Foundations of Astronautical Engineering
- ENGR 102: Engineering Freshman Academy
- ITP 168: Introduction to MATLAB
- TECHNICAL ELECTIVES: Specialized upper division courses you choose for your major/specialization.

**MATHEMATICS**
- MATH 125: Calculus I
- MATH 126: Calculus II
- MATH 226: Calculus III
- MATH 245: Mathematics of Phys. & Engr.

**SCIENCE**
- CHEM 105aL: General Chemistry or MASC 110L: Materials Science
- PHYS 151L: Mechanics & Thermodynamics
- PHYS 152L: Electricity & Magnetism
- PHYS 153L: Optics & Modern Physics

**GENERAL EDUCATION**
As a USC Viterbi student your General Education (Gen Ed) curriculum will include courses in the Arts, Humanistic Inquiry and Social Analysis.

**WRITING**
- WRIT 150: Writing & Critical Reasoning
- WRIT 340: Advanced Writing

**ELECTIVES**
Your optional electives are one way to build engineering+ into your curriculum by choosing classes of interest to you.

Courses with this symbol may be satisfied with certain AP, IB or A-Level exams. With each requirement you replace with prior credit, you increase your optional electives, creating more flexibility for you to pursue additional electives and increase your engineering+ education.

This is a simplified version of a complex curriculum with options and choices made between advisor and student. Course choices can vary by semester and adjust to include relevant topics and materials. Although every attempt has been made to ensure accuracy, the program requirements listed in the USC Catalogue supersede any information which may be contained in this or any other publication of any school or department. The information found in this document is not intended for advising purposes. The university reserves the right to change its policies, rules, regulations, requirements and course offerings at any time.