

# Aerospace Engineering

FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
AME 105	ITP 168	AME 201	AME 204	AME 301	AME 302	AME 404	AME 436
ENGR 102	PHYS 151L	PHYS 152L	AME 231L	AME 308	AME 309	AME 441aL	AME 451
MATH 125	MATH 126	MATH 226	AME 261	AME 310	AME 341bL	TECHNICAL ELECTIVE	AME 481
CHEM 105aL or MASC 110L	WRIT 150	GEN ED	ASTE 280	AME 341aL	PHYS 153L	TECHNICAL ELECTIVE	WRIT 340
GEN ED	GEN ED	OPTIONAL ELECTIVE	MATH 245	GEN ED	GEN ED	GEN ED	OPTIONAL ELECTIVE
			OPTIONAL ELECTIVE	OPTIONAL ELECTIVE		OPTIONAL ELECTIVE	

## 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 302:** Dynamic Systems  
**AME 308:** Comp. Aided Analyses for Aero-Mechanical Design  
**AME 309:** Dynamics of Fluids  
**AME 310:** Engineering Thermodynamics I  
**AME 341aL:** Mechoptronics Laboratory I  
**AME 341bL:** Mechoptronics 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.*