

# Aerospace Engineering

FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
WRIT 150 4	GESM (GE B)# 4	AME 201 <i>MATH 125 or 126 or 226</i> 4	AME 261 4	GE D* 4	GE C 4	GE A* 4	WRIT 340 WRIT 150 4
AME 105 4	GE B 4	MASC 310L 4	AME 204 <i>AME 201</i> 4	AME 301 <i>AME 201, (MATH 245)</i> 4	AME 310 <i>PHYS 151 and MATH 125 or 126 or 226</i> 4	GE C 4	AME 436 <i>AME 310</i> 4
MATH 125 (GE F)* 4	MATH 126 or MATH 129* <i>MATH 125</i> 4	MATH 226 or MATH 229 <i>MATH 126 or 129</i> 4	MATH 245 <i>MATH 226 or 229</i> 4	AME 308 <i>AME 204, (AME 301)</i> 4	AME 309 <i>AME 201, (MATH 245)</i> 4	AME 451 <i>AME 302a, AME 302b</i> 4	AME 481 4
CHEM 105aL or MASC 110L* 4	PHYS 151L (GE E) <i>MATH 125 or 126 or 226</i> 4	PHYS 152L <i>PHYS 151L, (MATH 226)</i> 4	AME 208 <i>PHYS 152, (MATH 245)</i> 4	AME 341aL <i>PHYS 152, AME 208</i> 4	AME 341bL <i>AME 341a</i> 4	AME 441a <i>AME 341a, AME 341b</i> 4	PHYS 153 <i>PHYS 152</i> 4
ENGR 102 2	ITP 168 2	OPTIONAL ELECTIVE 2	OPTIONAL ELECTIVE 2	AME 302a <i>MATH 245</i> 2	AME 302b <i>AME 302a, MATH 245</i> 2	OPTIONAL ELECTIVE 2	OPTIONAL ELECTIVE 2

## MATHEMATICS (16 UNITS)

**MATH 125:** Calculus I\*

**MATH 126 or MATH 129:** Calculus II\*

**MATH 226 or MATH 229:** Calculus III

**MATH 245:** Mathematics of Phys. and Engr.

## PHYSICS (12 UNITS)

**PHYS 151L:** Mechanics and Thermodynamics

**PHYS 152L:** Electricity and Magnetism

**PHYS 153L:** Optics and Modern Physics

## CHEMISTRY/MATERIALS SCIENCE (4 UNITS)

**CHEM 105aL:** General Chemistry\*

**or MASC 110L:** Materials Science

## GENERAL EDUCATION (32 UNITS)

**GE A** The Arts (1 Course)\*

**GE B** Humanistic Inquiry (2 Courses)

**GE C** Social Analysis (2 Courses)

**GE D** Life Sciences (1 Course)\*

**GE E** Physical Sciences (1 Course)\*

**GE F** Quantitative Reasoning (1 Course)\*

**GE G,H** Global Perspectives (2 Courses)\*

**GESM** General Education Seminar (1 Course)

## WRITING (8 UNITS)

**WRIT 150:** Writing and Critical Reasoning

**WRIT 340:** Advanced Writing

## ENGINEERING (70 UNITS)

**AME 105:** Intro. to Aerospace Engineering

**AME 201:** Statics

**AME 204:** Mechanics of Materials & Structures

**AME 208:** Mathematical Methods in Engineering

**AME 261:** Basic Flight Mechanics

**AME 301:** Dynamics

**AME 302a:** Systems

**AME 302b:** Systems

**AME 308:** Computer-Aided Engineering

**AME 309:** Dynamics of Fluids

**AME 310:** Engineering Thermodynamics I

**AME 341aL:** Measurement & Instrumentation  
Laboratory

**AME 341bL:** Measurement & Instrumentation  
Laboratory

**AME 436:** Automotive & Flight Propulsion

**AME 441aL:** Senior Projects Laboratory

**AME 451:** Linear Control Systems I

**AME 481:** Aircraft Design

**ENGR 102:** Engineering Freshman Academy

**ITP 168:** Introduction to MATLAB

**MASC 310L:** Materials Behavior and Processing

## SPECIAL NOTES

Courses with the \* symbol may be satisfied with AP, IB or A-Level exams. See page 18 for more information.

**GESM#:** GESM can be taken from GE categories: A, B, C, or D. Courses listed in the guide are options for a four-year course plan.

**GE:** Engineering students are encouraged to satisfy GE-G and GE-H with a course that also satisfies a Core Literacy. GE-H may be satisfied by AP/IB. Additionally, your GESM course should be taken in categories A, B, C, or D only. See page 17 for more information and consult your advisor for detailed assistance.

**OPTIONAL ELECTIVES:** Consult with your academic advisor to explore optional elective courses. These courses are not required.

**PHYSICS REQUIREMENT:** PHYS 161-163 and PHYS 171-173 are acceptable towards this requirement.