

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 MATH 125 or 126 or 226 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 AME 201 4	AME 301 AME 201, (MATH 245) 4	AME 310 PHYS 151 and MATH 125 or 126 or 226 4	GE C 4	AME 436 AME 310 4
MATH 125 (GE F)* 4	MATH 126 or MATH 129* MATH 125 4	MATH 226 or MATH 229 MATH 126 or 129 4	MATH 245 MATH 226 or 229 4	AME 308 AME 204, (AME 301) 4	AME 309 AME 201, (MATH 245) 4	AME 451 AME 302a, AME 302b 4	AME 481 4
CHEM 105AL or MASC 110L* 4	PHYS 151L (GE E) MATH 125 or 126 or 226 4	PHYS 152L PHYS 151L, (MATH 226) 4	AME 208 co-req--MATH 245 4	AME 341aL PHYS 152, AME 208 4	AME 341bL AME 341a 4	AME 441aL AME 308, AME 341a, AME 341b 4	PHYS 153 PHYS 152 4
ENGR 102 2	TAC 168 2	OPTIONAL ELECTIVE 2	OPTIONAL ELECTIVE 2	AME 302a MATH 245 2	AME 302b AME 302a, MATH 245 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: Computational 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: Mechoptronics Laboratory

AME 341bL: Mechoptronics 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

TAC 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.