

ASTRONAUTICAL 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 310 PHYS 151, MATH 125 4	AME 204 AME 201 4	PHYS 153L PHYS 152L 4	AME 341bL AME 341aL 4	GE C 4	GE B 4
ASTE 101L 4	GE A* 4	AME 201 MATH 125 or 126 or 129 4	AME 208 MATH 245 4	ASTE 331 ASTE 280 (PHYS 153) 4	ASTE 421 ASTE 331 or ASTE 331ab 4	TECHNICAL ELECTIVE 2	TECHNICAL ELECTIVE 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 301 AME 201 4	ASTE 305 PHYS 153, AME 310 (MATH 245) 4	ASTE 475 PHYS 152L and ASTE 305 or AME 309 4	WRIT 340 WRIT 150 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	ASTE 280 PHYS 152 4	AME 341aL PHYS 152, AME 208 4	AME 308 AME 204, (AME 301) 4	AME 441a 4	GE C 4
ENGR 102 2	TAC 168 2	OPTIONAL ELECTIVE 2	TECHNICAL ELECTIVE (ASTE 490/491) 1	TECHNICAL ELECTIVE (ASTE 490/491) 1	OPTIONAL ELECTIVE 2	GE D* 4	

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

Engineering (70 Units)

- AME 105: Intro. to Aerospace Engineering
- AME 201: Statics
- AME 204: Strength of Materials
- AME 208: Mathematical Methods in ENGR
- AME 301: Dynamics
- AME 308: Comp. Aided Analysis for Design
- AME 310: Engineering Thermodynamics I
- AME 341aL: Mechoptronics Laboratory I
- AME 341bL: Mechoptronics Laboratory II
- AME 441a: Senior Projects Laboratory
- ASTE 101L: Intro. to Astronautics
- ASTE 280: Foundations of Astronautics
- ASTE 305: Astronautics Gas Dynamics
- ASTE 331: Spacecraft Systems Engineering
- ASTE 421: Space Mission Design
- ASTE 475: Rocket Propulsion
- ENGR 102: Engineering Freshman Academy
- TAC 168: Introduction to MATLAB
- TECHNICAL ELECTIVES

Writing (8 Units)

- WRIT 150: Writing and Critical Reasoning
- WRIT 340: Advanced Writing

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)

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 4-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.
- **Technical Electives:** Any upper-division course in engineering, chemistry, physics, and mathematics. See academic advisor for exceptions/substitutions.