

## FIRST YEAR

### FALL SEMESTER

<b>WRIT 150</b> 4	<b>ASTE 101L</b> 4	<b>MATH 125 (GE F)</b>  4	<b>CHEM 105aL or MASC 110L</b>  4	<b>ENGR 102</b> 2
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### SPRING SEMESTER


<b>GEB</b> 4	<b>GE A</b>  4	<b>MATH 126 or MATH 129</b>  MATH 125 4	<b>PHYS 151L (GE E)</b> MATH 125 or 126 or 226 4	<b>ITP 168</b> 2
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## SECOND YEAR

### FALL SEMESTER

<b>GEC</b> 4	<b>AME 201</b> MATH 125, PHYS 151L 3	<b>MATH 226 or MATH 229</b> MATH 126 or MATH 129 4	<b>PHYS 152L</b> PHYS 151L, (MATH 226) 4	<b>OPTIONAL ELECTIVE</b> 3
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### SPRING SEMESTER

<b>GED</b>  4	<b>AME 204</b> AME 201 or CE 205 3	<b>MATH 245</b> MATH 226 or MATH 229 4	<b>PHYS 153L</b> PHYS 152L 4	<b>ASTE 280</b> MATH 226, PHYS 151L or PHYS 161L 3
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## THIRD YEAR

### FALL SEMESTER

<b>GEC</b> 4	<b>AME 301</b> AME 201 or CE 205 3	<b>AME 310</b> MATH 226 OR MATH 227 OR MATH 229 3	<b>ASTE 331a</b> PHYS 153L, ASTE 280 3	<b>AME 341aL</b> PHYS 152L, MATH 126 3	<b>OPTIONAL ELECTIVE</b> 2
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### SPRING SEMESTER

<b>ASTE 331b</b> ASTE 330a 3	<b>WRIT 340</b> WRIT 150 3	<b>AME 309</b> AME 201 (MATH 245) 3	<b>AME 308</b> AME 204, (AME 301) 3	<b>AME 341bL</b> AME 341aL 3	<b>OPTIONAL ELECTIVE</b> 3
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## FOURTH YEAR

### FALL SEMESTER

<b>AME 441a</b> 3	<b>TECHNICAL ELECTIVE</b> 3	<b>ASTE 470</b> 3	<b>AME 404</b> 3	<b>TECHNICAL ELECTIVE</b> 3	<b>OPTIONAL ELECTIVE</b> 3
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### SPRING SEMESTER

<b>GEB</b> 4	<b>ASTE 421</b> ASTE 330 3	<b>ASTE 480</b> 3	<b>TECHNICAL ELECTIVE</b> 3	<b>OPTIONAL ELECTIVE</b> 4
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### 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 (7 UNITS)

**WRIT 150:** Writing and Critical Reasoning

**WRIT 340:** Advanced Writing

### ENGINEERING (68 UNITS)

**AME 201:** Statics

**AME 204:** Strength of Materials

**AME 301:** Dynamics

**AME 308:** Comp.-Aided Analysis for Design

**AME 309:** Fluid Dynamics

**AME 310:** Engineering Thermodynamics I

**AME 341AL:** Mechoptronics Laboratory I

**AME 341BL:** Mechoptronics Laboratory II

**AME 404:** Comp. Solutions to Engr. Problems

**AME 441AL:** Senior Projects Laboratory

**ASTE 101L:** Intro. to Astronautics

**ASTE 280:** Astronautics & Space Environment I

**ASTE 301B:** Thermal and Statistical Systems II

**ASTE 330:** Astronautics & Space Environment II

**ASTE 421:** Space Mission Design

**ASTE 470:** Spacecraft Propulsion

**ASTE 480:** Spacecraft Dynamics

**ENGR 102:** Engineering Freshman Academy

**ITP 168:** Introduction to MATLAB

**TECHNICAL ELECTIVES**

### SPECIAL NOTES

Courses with the AP/IB symbol may be satisfied with AP, IB or A-Level exams. See page 17 for more information.

**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 exam. Additionally, your GESM course should be taken in categories A, B, C, or D only. See page 21 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.

**TECHNICAL ELECTIVES:** Any upper-division course in engineering, Chemistry, Physics, Mathematics, or Math 225 except CE 404, 412, and ISE 440. No more than 3 units of ASTE 490 or ASTE 491 course work can be used for Technical Electives.