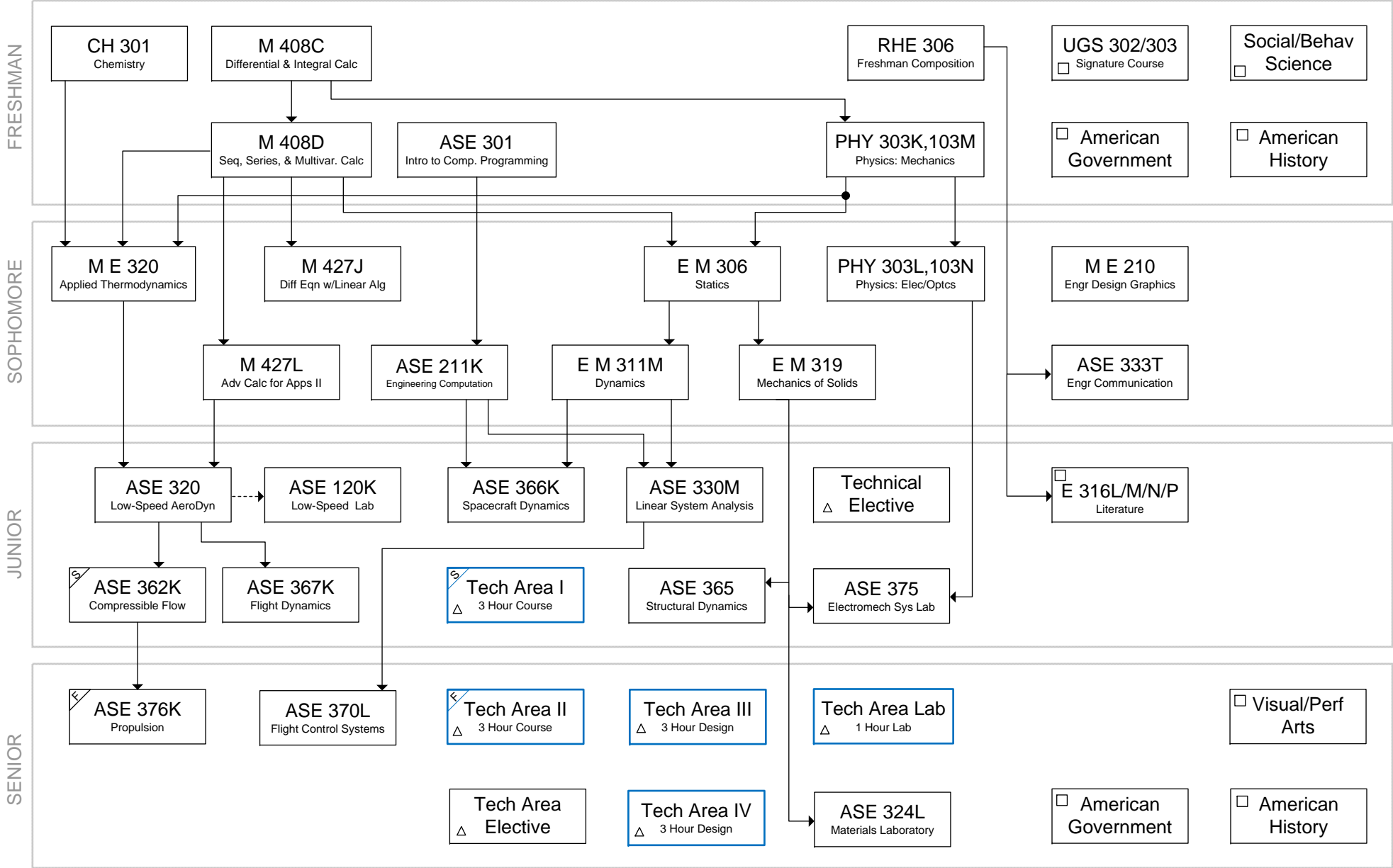


# 2014-2016 AEROSPACE ENGINEERING CURRICULUM

## PREREQUISITE FLOW CHART



Required Prerequisite  
 Credit or Registration Required

**C- or better required in ALL coursework except Core Curriculum Requirements**

F = Course Offered in **Fall Semester Only**  
 S = Course Offered in **Spring Semester Only**

Core Curriculum Requirement; find approved classes in Catalog  
 Check Prerequisite in Catalog

# AEROSPACE ENGINEERING

## 2014-2016 CATALOG

Suggested Arrangement of Courses for Eight Semester Program  
126 credit hours

### First Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
CH 301, <i>Principles of Chemistry I</i> .....	3	ASE 301, <i>Introduction to Computer Programming</i> .....	3
M 408C, <i>Differential and Integral Calculus</i> .....	4	M 408D, <i>Sequences, Series, and Multivariable Calculus</i> .....	4
ASE 102, <i>Introduction to Aerospace Engineering</i> **.....	1	PHY 303K, <i>Engineering Physics I</i> .....	3
RHE 306, <i>Rhetoric and Writing</i> (English Composition) .....	3	PHY 103M, <i>Laboratory for Physics 303K</i> .....	1
UGS 302 <u>or</u> UGS 303 (First-Year Signature Course) * .....	3	GOV 310L (American and Texas Government) *.....	3
Approved Social and Behavioral Science * .....	3	American History * .....	3
TOTAL.....	16 or 17**	TOTAL .....	17

### Second Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
M E 320, <i>Applied Thermodynamics</i> .....	3	ASE 211K, <i>Engineering Computation</i> .....	2
E M 306, <i>Statics</i> .....	3	E M 311M, <i>Dynamics</i> .....	3
M 427J, <i>Differential Equations with Linear Algebra</i> .....	4	E M 319, <i>Mechanics of Solids</i> .....	3
PHY 303L, <i>Engineering Physics II</i> .....	3	ASE 333T, <i>Engineering Communication</i> .....	3
PHY 103N, <i>Laboratory for Physics 303L</i> .....	1	M 427L, <i>Advanced Calculus for Applications II</i> .....	4
M E 210, <i>Engineering Design Graphics</i> .....	2	TOTAL .....	15
TOTAL.....	16		

### Third Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
ASE 320, <i>Low-Speed Aerodynamics</i> .....	3	ASE 362K, <i>Compressible Flow</i> .....	3
ASE 120K, <i>Low-Speed Aerodynamics Laboratory</i> .....	1	ASE 367K, <i>Flight Dynamics</i> .....	3
ASE 330M, <i>Linear System Analysis</i> .....	3	Technical Area Courses.....	7
ASE 366K, <i>Spacecraft Dynamics</i> .....	3	Approved Visual and Performing Arts * .....	3
ASE 375, <i>Electromechanical Systems</i> .....	3	TOTAL .....	16
E 316L/M/N/P, <i>Masterworks of Literature</i> (Humanities) * .....	3		
TOTAL.....	16		

### Fourth Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
ASE 324L, <i>Aerospace Materials Laboratory</i> .....	3	ASE 370L, <i>Flight Control Systems</i> .....	3
ASE 376K, <i>Propulsion</i> .....	3	ASE 365, <i>Structural Dynamics</i> .....	3
Technical Area Courses .....	6	Technical Area Elective.....	3
Technical Elective.....	3	GOV 312L/P (American and Texas Government) * .....	3
TOTAL.....	15	American History * .....	3
		TOTAL .....	15

#### NOTES:

- C- or better required in **all** coursework except Core Curriculum (\*) requirements.
- Check with the Undergraduate Office (WRW 215) for a list of approved technical elective courses.
- \*\*ASE 102 is not a degree requirement. Students who do not take this course will take 16 hours of coursework.