## B.S. in AEROSPACE ENGINEERING (Astronautics Concentration)

**Suggested 4-Year Academic Flowchart**

### 2020-2021 Catalog

**Fall**  
**Sophomore**  
Aerospace Fundamentals  
AERO 121 (2)  
Calculus I  
MATH 141 (4)  
(*Area B Elective)*  
General Chemistry for Physical Science & Engineering I  
CHEM 124 (4)  
General Physics IIA  
PHYS 141 (4)  
General Physics IIB  
PHYS 132 (4)  
General Physics IIIB  
PHYS 142 (4)  
Introduction to Aerospace Design  
AERO 215 (2)  
Mechanics of Materials I  
AERO 240 (2)  
(Prerequisite)  
Calculus II  
MATH 241 (4)  
(*Area B Elective)*  
Calculus IV  
MATH 242 (4)  
Aerospace Systems Engineering & Integration  
AERO 220 (1)  
Materials Engineering  
MATE 210 (3)  
General Physics IIIA  
PHYS 133 (4)  
General Physics IIIB  
PHYS 134 (4)  
Aerospace Thermodynamics  
AERO 299 (4)  
Aerospace Analysis  
AERO 300 (5)  
Spacecraft Flight Dynamics  
AERO 301 (2)  
Electric Circuit Theory & Lab  
EE 201 (3)  
(Prerequisite)  
Spacecraft Environment I  
AERO 355 (3)  
Spacecraft System Analysis II  
AERO 445 (3)  
Spacecraft Propulsion Systems  
AERO 450 (2)  
Introduction to Orbdital Mechanics  
AERO 351 (4)  
(Prerequisite)  
Graduation Writing Requirement  
GWR*  

**Spring**  
**Junior**  
Aerospace Structures Analysis I  
AERO 331 (4)  
Experimental Stress Analysis  
AERO 433 (1)  
Aerospace Engineering Professional Preparation  
AERO 460 (1)  
Spacecraft Design II  
AERO 449 (3)  
Astronautics Approved Electives (4)*  
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**Fall**  
**Senior**  
Aerospace Structures Analysis II  
AERO 332 (4)  
Spacecraft Design I  
AERO 447 (3)  
Astronautics Approved Electives (4)*  
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**Notes:**  
1. Must General Education Courses can be taken in any order as long as prerequisites are met.  
2. Major 49  
3. Support 61  
4. Concentration 51  
5. General Ed. 40  

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### Notes:

1. Consultation with advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of postbaccalaureate studies and/or goals. Only 4 units of 300-level coursework is allowed as an approved elective.
2. CE 204 & 207 can be replaced by taking 208