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

## Suggested 3-Year Academic Flowchart for Transfer Students Admitted Fall 2022

**Updated 6/28/2022**

Please note: This flowchart is one example of how students can graduate in 3 years. We encourage students to use this as a tool in creating their own unique quarter by quarter graduation plan.

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Winter</strong></td>
<td><strong>Spring</strong></td>
</tr>
</tbody>
</table>
| Aerospace Fundamentals  
AERO 121 (2) | Introduction to Aerospace Design  
AERO 215 (2)  
(MATH 143, Recep: MATH 144) | Aerospace Fluid Mechanics  
AERO 299 (4)  
(MATH 212; AERO 300; AERO 215) |
| Mechanics of Materials I  
CE 204 (3)*  
(ME 211) | Aerospace Engineering Analysis  
AERO 300 (5)  
(MATH 211; AERO 244; ME 212; PHYS 133) | Aerospace Structural Analysis I  
AERO 331 (4)  
(AERO 331, 333) |
| Any remaining support course or GE not transferred | Fundamentals of Dynamics and Control  
AERO 320 (4)  
(AERO 300; ME 212) | Aerospace Structural Analysis II  
AERO 431 (4)  
(AERO 331) |
| Any remaining support course or GE not transferred | Experimental Stress Analysis  
AERO 433 (1)  
(AERO 331, 431) | Aerospace Systems Senior Laboratory  
AERO 465 (1)  
(AERO 331, 332, 431; Sr. Standing) |
| Introduction to Design & Manufacturing  
IME 144 (4) | Spacecraft Design II  
AERO 447 (3)  
(ME 144; AERO 315; AERO 331; AERO 355 or 351; AERO 353 or 355; AERO 446; AERO 421; AERO 449; MATH 142) | Astronautics Approved Electives (4)** |
| Statistical Methods for Engineers  
STAT 312 (4)*  
(MATH 142; [Upper Division B]) | Spacecraft Propulsion Systems  
AERO 402 (5)  
(AERO 331; AERO 353 or AERO 355; PHYS 212) | Astronautics Approved Electives (4)** |
| Upper-Division GE C (4)**  
(AERO 300 & ME 212) | Any remaining support course or GE not transferred | | | | | |

## Graduation Writing Requirement (GWR)*

(Must be fulfilled before graduation by either enrolling in a GWR-approved, upper-division English course (which can double-count with the Upper Division C) or by completing the GWR requirement if not transferred)

<table>
<thead>
<tr>
<th>13+</th>
<th>9+</th>
<th>13</th>
<th>13</th>
<th>13</th>
<th>15</th>
<th>10+</th>
<th>8+</th>
<th>7+</th>
</tr>
</thead>
</table>

### Notes:

- **MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET**
- * Refer to current catalog for prerequisites.
- ** Refer to online catalog for GE course selection; United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).
- USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, D Elective and E.
- 1Course can be taken previously or concurrently.
- 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.
- 1 CE 208 (5) may be taken in place of 204 (3) & 207 (2) to expedite series.
- 1 ENGL 149 has been discontinued. For those who still need to take this requirement, you will need to replace this requirement with any GE A3 course.

### Legend:

- **Course Title**
- **Course # (Units)**
- **Prerequisite**
- **Major**
- **Support**
- **[GE Area]**
- **Concentration**
- **General Ed.**

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