## Aeronautics Concentration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>AERO 306</td>
<td>Aerodynamics and Flight Performance</td>
<td>4</td>
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<tr>
<td>AERO 307</td>
<td>Experimental Aerodynamics</td>
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<tr>
<td>AERO 401</td>
<td>Propulsion Systems</td>
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<tr>
<td>AERO 405</td>
<td>Supersonic and Hypersonic Aerodynamics</td>
<td>4</td>
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<td>AERO 420</td>
<td>Aircraft Dynamics and Control</td>
<td>4</td>
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<tr>
<td>AERO 443</td>
<td>Aircraft Design I</td>
<td>3</td>
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<td>AERO 444</td>
<td>Aircraft Design II</td>
<td>3</td>
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<tr>
<td>AERO 445</td>
<td>Aircraft Design III</td>
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### Aeronautics Approved Electives

Select from the following:

- AERO 351 Introduction to Orbital Mechanics
- AERO 360 Creative Problem Solving in Engineering Design
- AERO 355 Space Environments I
- AERO 356 Space Environments II
- AERO 406 Applied Computational Fluid Dynamics
- AERO 407 Reentry Aerodynamics
- AERO 408 Plasma Applications in Aerospace
- AERO 409 Flight Test
- AERO 421 Spacecraft Attitude Dynamics and Control
- AERO 425 Aircraft Performance
- AERO 432 Advanced Composite Structures Analysis
- AERO 434 Aerospace Structural Analysis III
- AERO 435 Aerospace Numerical Analysis
- AERO 450 Introduction to Aerospace Systems Engineering
- AERO 452 Spaceflight Dynamics II
- AERO 455 Introduction to Human Spaceflight
- AERO 446 Spacecraft Electrical and Electric Systems
- AERO 470 Selected Advanced Topics
- AERO 471 Selected Advanced Laboratory
- AERO 513 Applications of Remotely Piloted Aircraft Systems
- AERO 515 Continuum Mechanics
- AERO 522 Boundary-Layer Theory
- AERO 525 Computational Fluid Dynamics
- AERO 526 Spacecraft Thermal/Fluid Control
- AERO 532 Advanced Aerospace Composite Design
- AERO 533 Finite Elements for Aerospace Structural Analysis
- AERO 534 Aerospace Structural Dynamics Analysis
- AERO 535 Advanced Aerospace Structural Analysis
- AERO 540 Elements of Rocket Propulsion
- AERO 541 Air Breathing Propulsion
- AERO 548 Complexity in Engineered Systems
- AERO 549 Systems Engineering Applications
- AERO 553 Advanced Control Theory
- AERO 557 Advanced Orbital Mechanics
- AERO 560 Advanced Spacecraft Dynamics and Control
- AERO 561 Vehicle Integration and Testing
- AERO 562 Space Operations
- AERO 565 Advanced Topics in Aircraft Design
- AERO 568 Aerodynamic Research and Development I
- AERO 569 Aerodynamic Research and Development II
- AERO 570 Selected Advanced Topics
- AERO 571 Selected Advanced Topics Laboratory

### Total units

| Total | 40 |

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1. Consultation with advisor is recommended prior to selecting Approved Electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.

2. May require a petition depending on the topic. Please consult with your advisor.