Aerospace Engineering Graduate Certificate

Program Requirements
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Minimum requirements for Aerospace Engineering Graduate Certificate: 12 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>General University Requirements</td>
<td>Complete the general university requirements. (<a href="https://catalog.uaf.edu/graduate-certificates/#gurgraduatecertificatestext">https://catalog.uaf.edu/graduate-certificates/#gurgraduatecertificatestext</a>)</td>
<td>6</td>
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Graduate Certificate Requirements
Complete the graduate certificate requirements. (https://catalog.uaf.edu/graduate-certificates/)

Aerospace Engineering Graduate Certificate Program
Requirements:
Complete a minimum of two courses from the following: 6
AERO F654 UAS Systems Design
AERO/ME F656 Aerospace Systems Engineering
AERO/CS F658 Unmanned Aircraft Systems (UAS) Operations

Complete up to 6 credits from the following courses: 3-6
ATM F645 Atmospheric Dynamics
CS F665 Computer and Network Security
GEOS F657 Microwave Remote Sensing
GEOS F659 Visible and Infrared Remote Sensing
ME F609 Advanced Vibrations
PHYS/ATM F647 Fundamentals of Geophysical Fluid Dynamics

Complete up to 3 credits from the following courses: 0-3
CS F453 Robotics & 3D Printing
ME F451 Aerodynamics
ME F452 Introduction to Astrodynamics
ME F453 Propulsion Systems

Total Credits 15

First Year
Fall Credits Spring Credits Summer Credits
AERO F654, F656, F658, CS F658, or ME F656 3 AERO F654, F656, F658, or ME F656 3 CS F453, ME F451, ME F452, or ME F453 (Optional) 3

ATM F645, F647, CS F665, GEOS F657, GEOS F659, ME F609, or PHYS F647 (Optional) 3 ATM F645, F647, CS F665, GEOS F657, GEOS F659, ME F609, or PHYS F647 (Optional) 3

6 6 3

Total Credits 12-15

Admission Requirements
Complete the following admission requirements:
- Admission into a master’s degree program within the College of Engineering and Mines or approval by the program administrator.

Roadmaps
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Roadmaps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.

• This roadmap should be used in conjunction with regular academic advising appointments. All students are encouraged to meet with their advisor or mentor each semester.
• Some courses and milestones must be completed in the semester listed to ensure timely graduation.
• Transfer credit may change the roadmap.
• Requirements, course availability and sequencing are subject to change.
• Courses with (*) are recommended.