UNMANNED AIRCRAFT SYSTEMS - MINOR

College of Aeronautics and Engineering
Aeronautics and Technology Building
Kent Campus
330-672-2892
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www.kent.edu/cae

Description
The Unmanned Aircraft Systems minor introduces students to various types of unmanned aerial systems and their increasing role in today’s society. Using a systems engineering perspective, students study roles and applications of unmanned aerial systems and apply their knowledge to the development of sensors, control, communications and flight operations. Students will also become an FAA certificated drone pilot.

Fully Offered At:
• Kent Campus

Admission Requirements
Admission to a minor is open to students declared in a bachelor’s degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Learning Outcomes
Graduates of this program will be able to:
• Analyze various aspects of unmanned aerial systems operations, including safety, certification, applications, trends, regulations and performance.
• Analyze the system components of unmanned aerial systems.
• Determine the communication and control systems necessary for unmanned aerial systems platform operations.

Minor Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>AERN 15740</td>
<td>ELEMENTS OF FLIGHT THEORY</td>
<td>3</td>
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<tr>
<td>or AERN 15745</td>
<td>NON-PILOT ELEMENTS OF FLIGHT THEORY</td>
<td></td>
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<tr>
<td>AERN 25250</td>
<td>ELEMENTS OF AVIATION WEATHER</td>
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<tr>
<td>AERN 25350</td>
<td>FUNDAMENTALS OF AIR TRAFFIC CONTROL</td>
<td>3</td>
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<tr>
<td>AERN 25351</td>
<td>FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY</td>
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<tr>
<td>AERN 35644</td>
<td>INSTRUMENT FLIGHT THEORY</td>
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<tr>
<td>or AERN 35650</td>
<td>NON-PILOT INSTRUMENT FLIGHT THEORY</td>
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<tr>
<td>AERN 45150</td>
<td>APPLIED FLIGHT DYNAMICS I</td>
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1 All aeronautics concentrations include all of the prerequisite courses for the Unmanned Aircraft Systems minor. Students declared in the Aeronautics major will need to complete the additional 16 credit hours from the requirements below to earn the minor.

Minimum Total Credit Hours: 16

Graduation Requirement

Minimum Minor GPA
2.000

• Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
• Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
• Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).