

# UNMANNED AIRCRAFT SYSTEMS - MINOR

College of Aeronautics and Engineering  
School of Aeronautics  
[www.kent.edu/cae](http://www.kent.edu/cae)

## About This Program

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.

## Contact Information

- [cae@kent.edu](mailto:cae@kent.edu) | 330-672-2892
- Speak with an Advisor

## Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - 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 Requirements

### Minor Requirements

| Code                               | Title   | Credit Hours |
|------------------------------------|---|--------------|
| <b>Minor Requirements</b>          |   |              |
| AERN 25250                         | ELEMENTS OF AVIATION WEATHER                                  | 3            |
| AERN 25800                         | INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS                     | 3            |
| AERN 35810                         | UNMANNED AIRCRAFT SYSTEMS                                     | 3            |
| AERN 35830                         | UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS          | 3            |
| AERN 35840                         | UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS | 3            |
| AERN 45800                         | UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY            | 4            |
| <b>Minimum Total Credit Hours:</b> |   | <b>19</b>    |

## Graduation Requirements

| Minimum Minor GPA | Minimum Overall GPA |
|-------------------|---------------------|
| 2.000             | 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).

## Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze various aspects of unmanned aerial systems operations, including safety, certification, applications, trends, regulations and performance.
2. Analyze the system components of unmanned aerial systems.
3. Determine the communication and control systems necessary for unmanned aerial systems platform operations.