

# UNMANNED AIRCRAFT SYSTEMS / MINOR

**Total Minor Hours: 22**

Students who complete the UAS Minor will be able to apply the concepts of Unmanned Aerial Vehicle (UAV) development and operation to meet the needs of real world problems. This program will teach students to examine a situation and determine the best classification of unmanned aerial vehicle to use. Students will also be able to operate the system to achieve these goals.

Students enrolled in the UAS Minor at Lewis will be able to:

- Demonstrate an understanding and ability to apply the fundamental skills of UAS operation to project design.
- Successfully apply Crew Resource Management (CRM) concepts in a collaborative UAS team environment.
- Apply foundational computer science and engineering skills in developing UAS algorithms.
- Apply foundational aviation maintenance electrical and avionics skills to UAS devices.

This minor will be open to all students in any program of study at Lewis University. This field has implications for a multitude of uses and will benefit many academic and industry disciplines.

The UAS minor is highly technical. To be admitted to this minor, students must have a cumulative GPA of 3.0. Because certain skills sets are necessary, students admitted into the minor must have some familiarity with aircraft, flight, and the aviation industry and/or be enrolled in an aviation program. Thus, all students in the minor must take AVTR 13000 Private Pilot Ground 1. Two upper-division courses (six hours) and one other course (three hours) may not apply to any other major or minor at Lewis University.

## Requirements

### Minor Requirements

Code	Title	Hours
<b>Required Courses</b>		
AVMT 12000	Aircraft Electricity 1	4
AVTR 13000	Private Pilot Ground 1	3
AVTR 22500	Introduction to Unmanned Systems	3
AVTR 30500	Crew Resource Management	3
AVTR 34100	Unmanned Systems Field Operations	3
AVTR 34300	UAS Operations 1	3
CPSC 20000	Introduction to Computer Science	3
<b>Total Hours</b>		<b>22</b>