UNMANNED AERIAL SYSTEMS - BASIC TECHNICAL CERTIFICATE (BTC)

Explore More About This Program: https://cwi.edu/program/unmanned-aerial-systems

Certificate Quick Facts

- **Instructional School:** Industry, Engineering, and Trades
- **Department:** Engineering
- **Program Code:** UAS.BTC
- **Program Type:** Career and Technical Education
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

NOTE: Courses required for this program *may* have an additional fee; more information can be found on the Special Course Fees web page.

Certificate Requirements

Course	Course Title	Min Credits
Major Requirements		
GIS 126	Fundamentals of GIS	3
GIS 230	Remote Sensing/GIS Integration	3
UAS 110	Digital Imagery Fundamentals	3
UAS 115	Privacy and Security	3
UAS 125	Flight Theory - Ground School	3
UAS 130	Flight Lab I	5
UAS 136	Flight Lab II	5
UAS 140	Mission Planning and Implementation	3
Minimum Credit Hours Required		**28**

Certificate Plan: Fall Start

The course sequence listed below is strongly recommended in order to complete your program requirements. Many Career and Technical Education (CTE) courses have prerequisites and/or corequisites that have been accounted for within this course sequence plan. Please register for each semester as shown using the Student Planning tool in myCWI. Consult your advisor for any questions regarding this course sequence plan.

First Year

Fall		Credit Hours
GIS 126	Fundamentals of GIS	3
UAS 110	Digital Imagery Fundamentals	3
UAS 125	Flight Theory - Ground School	3
UAS 130	Flight Lab I	5
	Total Semester Credit Hours	**14**
Spring		
GIS 230	Remote Sensing/GIS Integration	3
UAS 115	Privacy and Security	3
UAS 136	Flight Lab II	5
UAS 140	Mission Planning and Implementation	3
	Total Semester Credit Hours	**14**
	Minimum Credit Hours Required	**28**

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Possess an excellent understanding of Federal Aviation Administration (FAA) rules and regulations.
- Perform flight operations with regards to airspace, weather, and safety.
- Perform unmanned aerial systems (UAS) mission planning and implementation.
- Understand, analyze, and interpret GIS data as it relates to UAS.
- Work effectively on multi-disciplinary and diverse teams.
- Communicate effectively with others using written and oral communication skills.
- Assess UAS security and privacy issues and implement solutions.
- Capture and process digital imagery.
- Discern hazardous situations and apply aeronautical decision making.
- Apply pertinent knowledge in identifying and solving aeronautical problems.