

# UNMANNED AIRCRAFT SYSTEMS, ASSOCIATE IN APPLIED SCIENCE



**APPLIED  
TECHNOLOGY**

Associate in Applied Science: AAS 3184

61-68 Credits

Program Contact

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## Program Description

The Associate in Applied Science (AAS) in Unmanned Aircraft Systems (UAS) program prepares students for entry level positions in the UAS industry by providing foundational knowledge and skills in UAS mission planning, applications, maintenance, laws and regulations, data analytics, and project management using UAS platforms. Program content includes an introduction to UAS flight, history, avionics, sensors, communications systems and selectable paths including data analysis and applications such as emergency responders, geographic information systems, precision agriculture, and in commercial and government sectors. Students will prepare for and conduct unmanned flights similar to those commonly performed in the industry observing Federal Aviation Administration's (FAA) regulations that govern sUAS operations. This program helps prepare students for the FAA Part 107 Certification.

## Program Notes

Students must earn a grade of "C" or better for all courses required within the program. Overall program minimum GPA = 2.00.

++ indicates any suffixed course may be selected.

## Admission Criteria

Students wishing to enroll in the Unmanned Aircraft Systems program must complete an application process before being officially accepted into the program.

## Program Requirements

Program Prerequisites: None

Code	Title	Credits	Semester
<b>Required Courses</b>			
AET208	Aviation Safety	3	_____
FYE101	Introduction to College, Career and Personal Success	1-3	_____
or FYE103	Exploration of College, Career and Personal Success		_____
PHY111	General Physics I	4	_____
UAS100	sUAS Batteries and Electronics	5	_____

UAS101	Introduction to Unmanned Aircraft Systems Operation	3	_____
UAS107	Unmanned Aircraft Systems Operator Certification	3	_____
UAS205	sUAS Instruments and Autopilot Programming and Uses	3	_____
UAS206	sUAS Instrument and Autopilot Flight Lab	2	_____
UAS207	sUAS Dynamics and Design	5	_____
UAS208	sUAS Dynamics and Design Lab	2	_____
UAS211	sUAS Ground Control Stations, Telemetry, and Communications	3	_____
UAS212	sUAS Maintenance Lab	2	_____
UAS215	sUAS Commercial Flight Training	3	_____

### General Education

#### Core

##### First-Year Composition

ENG101	First-Year Composition	3	_____
or ENG107	First-Year Composition for ESL		_____
ENG102	First-Year Composition	3	_____
or ENG108	First-Year Composition for ESL		_____

##### Oral Communication

Select one of the following:		3	_____
COM100	Introduction to Human Communication		_____
COM110	Interpersonal Communication		_____
COM225	Public Speaking		_____
COM230	Small Group Communication		_____

##### Critical Reading

Select one of the following:		0-3	_____
CRE101	College Critical Reading and Critical Thinking		_____
Or equivalent as indicated by assessment			_____

##### Mathematics

Select one of the following:		3-5	_____
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MAT187	Precalculus		_____
Any approved General Education course in the Mathematical Applications (MA) area <sup>1</sup>			_____
<b>Distribution</b>			_____
<i>Humanities, Arts and Design</i>			_____
Any approved general education course(s) from the Humanities, Arts and Design area	3		_____
<i>Social and Behavioral Sciences</i>			_____
Any approved general education course(s) in the Social and Behavioral Sciences area	3		_____
<i>Natural Sciences</i>			_____
Any approved general education course(s) in the Natural Sciences area	4		_____
<b>Total Credits</b>	<b>61-68</b>		_____

<sup>1</sup> for which MAT187 Precalculus is a prerequisite