

Unmanned Aerial Systems (UAS) Operations

Associate of Applied Science

PROGRAM DESCRIPTION

The Aviation Unmanned Aerial Systems Operations (UAS) program trains individuals to work as professional UAS operators in the national/international arena. Students will learn to operate UAS to include: conducting mission/preflight planning, mission briefings and programming. They will learn how to obtain and evaluate weather forecasts, Notice to Airmen (NOTAMs), Special Instructions (SPINs) and airspace requirements. Students will be taught to perform limited UAS and ground support equipment testing, troubleshooting and maintenance. The UAS degree is intended to prepare students for a fast growing industry with many civilian applications including agriculture, search and rescue, monitoring environment and wildlife, border security, fire mapping, surveying structures after natural disasters, real estate photography and police surveillance.

PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

Material Costs

- AV 272 and AV 273 have \$750 fees to cover equipment costs.

PROGRAM ENTRANCE REQUIREMENTS

None

PROGRAM PERFORMANCE STANDARDS

Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

PROGRAM COURSE REQUIREMENTS**Core Courses**

AV 104	Introduction to Aircraft Systems	4
AV 108	Meteorology I	4
AV 110	Private Pilot - Airplane	5
or AV 115	Private Pilot-Helicopter	
AV 150	Aerodynamics	4
AV 271	Introduction to Unmanned Aerial Systems	4
AV 272	Unmanned Aerial Systems (UAS) Operations	5
AV 273	Unmanned Aerial Sys Ops Maint	5
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
GEOG 211	Computer Cartography	4
GEOG 265	Geographic Information Systems	4
GEOG 266	Arc GIS	5
GEOG 267	Geodatabase Design	5
GEOG 273	Spatial Data Collection	5
GEOG 275	GIS Capstone	5
GEOG 285	Data Conversion/Documentation	5
GEOG 286	Remote Sensing	5
GEOG 287	Analysis of Spatial Data	5

Other Required Courses

BA 206	Management Fundamentals I	4
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
MTH 085	Technical Mathematics I ¹	4
or MTH 111	College Algebra	
WR 121	Academic Composition	4

Total Credits 94-98¹ Or higher than MTH 111 College Algebra