Unmanned Aerial Systems

What is the Unmanned Aerial Systems Program?

The Unmanned Aerial Systems (UAS) Technician Program is designed to prepare students for careers working with unmanned aerial systems, also known as drones. This is a field that is expanding at a rapid rate and also lends itself to a variety of industries. This program will provide students with technical knowledge and hands-on practice in order to give them experience with Unmanned Systems, their operations, and the rules and regulations governing their use. Students may choose to continue on to get their FAA certification to become a licensed UAS pilot.

What type of students excel in this program?

Students that are interested in flight, mechanics, and engineering will find this program fascinating and engaging. This program would also be a good fit for students who are interested in technology and staying in touch with the new types of technology coming out. The Unmanned Aerial Systems program also lends itself to a variety of other fields such as agriculture, construction, law enforcement, and communications. Students interested in any of these fields would also do well in this program.

What types of jobs do unmanned aerial systems technicians perform?

- agriculture
- construction and engineering
- inspections and insurance
- photography/videography
- real estate
- law enforcement

Why should I attend HCC?

The Unmanned Aerial Systems program is designed to give students knowledge and hands-on experience working with Unmanned Systems. Students will be given opportunities to operate and troubleshoot drones. They will also learn the technical knowledge needed to operate the vehicles. HCC's program also allows students the opportunity to gain knowledge about a variety of fields that utilize drones. HCC provides students with affordable, quality education, state-of-the-art facilities, and access to cutting edge technology, all while being close to home.

Certificate

Unmanned Aerial Systems (UAS) Technician

The Unmanned Aerial Systems (UAS) Technician Program prepares students for careers working with unmanned aerial systems, also known as drones. Students in this program will cover the operation, mechanics, data processing, maintenance, and regulations that pertain to unmanned systems.

Program Requirements — 14 credits

ELE	110	Fundamentals of Electricity	4
ELE	130	Introduction to Unmanned Systems	3
ELE	131	UAS Regulations	1
ELE	132	Mechanics of Unmanned Systems	3
ELE	230	Advanced Unmanned Systems	3

Restricted Electives — 9 credits

Select restricted elective credits from the following list:

ADM	158	Circuits, Schematics, and Test Equipment	3
ART	115	Photography I	3
CAD	152	Computer-Aided Design	3
CAD	228	CAD: Solid Modeling	3
CSC	102	Introduction to Information Technology	3
CSC	130	Fundamentals of Programming Design	3
CSC	132	Computer Science I	4
CSC	134	Introduction to JAVA Programming	4
CYB	101	Introduction to Cybersecurity	3
ELE	102	Analog Electronics	3
ELE	106	Digital Electronics	3
GDT	112	Computer Graphics	3
GDT	116	Digital Imaging	3
GDT	220	Digital Video and Audio	3
MAT	160	Precalculus I	3
STU	106	Professionalism in the Workplace	1

Certificate Requirement — 23

PROGRAM OPTIONS

Certificate, Unmanned Aerial Systems Technician

CAREER OUTLOOK

MEDIAN SALARY

$59K
for Electro-Mechanical Technicians

EMPLOYMENT

14,600 jobs in U.S. 3% growth in the next ten years

Career outlook can vary based on industry and employer. Job opportunities range from photography to construction to law enforcement, and more.

(source: www.bls.gov/ooh)

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