

CERTIFICATE OF ACHIEVEMENT - UNMANNED AERIAL SYSTEMS TECHNICIAN

The UAS Certificate program will enable the student to gain knowledge of how unmanned aircraft systems operate and prepare for a future in the aerospace industry.

Certificate Outcomes

Students completing the certificate will be able to:

- Analyze the past, present, and future of unmanned aircraft systems (UAS) in civil aviation and explain how UAS can support a wide variety of civil applications.
- Explain theories of operations for unmanned aerial systems components.
- Use mathematical computations to develop and construct an unmanned aerial system.

Gainful Employment

While all of the educational programs at Truckee Meadows Community College are designed to lead to either employment or transfer, the Department of Education requires that we provide information on specific certificate programs. More information on Gainful Employment (<http://www.tmcc.edu/financial-aid/consumer-information/gainful-employment>) is available on the the TMCC website. We hope this information is helpful to you as you make your career and educational choices.

Certificates of Achievement are a set of courses within an AAS degree that can serve as a stepping stone to an AAS degree or allow students to enter the workforce. Certificates of Achievement have a general education component.

To earn a Certificate of Achievement, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 semester credit hours within the college.
3. Satisfy General Education requirements for the AAS (<http://catalog.tmcc.edu/degrees-certificates/general-education/aas>).
4. Have no financial or library obligation to the college.

General Education Requirements

Communications 3

Recommended:

COM 215 Introduction to Group Communication

Human Relations 3

Recommended:

CE 201 Workplace Readiness

Mathematics [3]

This requirement is satisfied by embedded curriculum in the following courses: ELM 110, ENRG 110, MPT 110, AV 102

Certificate Requirements

AV 101 Introduction to Unmanned Aerial Systems 3

AV 102	Unmanned Aerial System Construction Project	3
CIT 114	IT Essentials	4
ELM 110 or ENRG 110	Electrical/Electronic Circuits Basic Electricity	4
MT 100	Fabricating Composites	3
MT 109	Small Engine Operation and Maintenance	3
MPT 110	Automated Production Concepts I	3
OSH 222	General Industry Safety	1
Elective ¹		0-1
Total Units		30

¹ A student who elects to take ENRG 110, must choose 1 units of electives to satisfy the total unit requirement.

Course	Title	Units
1st semester		
Communications ²		3
Human Relations ²		3
AV 101	Introduction to Unmanned Aerial Systems	3
MT 100	Fabricating Composites	3
MT 109	Small Engine Operation and Maintenance	3
Semester Total		15
2nd semester		
ELM 110	Electrical/Electronic Circuits ³	4
MPT 110	Automated Production Concepts I	3
CIT 114	IT Essentials	4
AV 102	Unmanned Aerial System Construction Project	3
OSH 222	General Industry Safety	1
Semester Total		15
Total Units		30

² See program recommendations or requirements.

³ A student may also elect to take ENRG 110 to satisfy this course however, ENRG 110 is 3 units. If a student takes this course, 1 additional unit will be required.