

# AVIATION - UNMANNED AIRCRAFT SYSTEMS, CERTIFICATE OF ACHIEVEMENT (LEVEL I)

NMC Code 050

Drones have become more of an everyday tool used in industry and are less of a novelty than ever before. Learn about this new industry and be prepared for the future.

This certificate is designed to provide a concentrated study for students who plan to enter the UAS (drone) industry. NMC UAS certificate students receive practical training in all aspects of commercial UAS operations and applications. The program includes hands-on courses that will provide the student with the essential and fundamental skills needed to be successful in this new and exciting industry. Students will earn a Remote Pilot certificate from the FAA that is required for the commercial operation of a drone system. In addition, the student will be guided from entry level skills and knowledge to the operation of commercial grade systems. Students will also learn how to use drones in commercial applications such as land survey, agriculture, and industrial inspections.

## Requirements Certificate Requirements

Course	Title	Credits
<b>Certificate Requirements</b>		
AVF 141	Remote Pilot Flight	3
AVF 211	Commercial Drone Operations	4
AVF 241	Advanced Drone Operations	3
AVG 142	Remote Pilot Ground	3
<b>Directed Electives</b>		
Select any 3 or 4 credit course from the list		3-4
<b>Total Credits</b>		<b>16-17</b>

### Directed Electives

Course	Title	Credits
ART 174	Digital Photography I	3
AVF 261	Aerosonde UAS Flight Training	3
AVG 260	Aerosonde UAS Ground	4
BUS 101	Introduction to Business	3
CMT 107	Construction Supervision	4
EET 103	Electrical Studies I	3
EGY 101	Principles of Renewable Energy	3
GEO 115	Introduction to GIS	3
LWE 102	Police Operations	4
RAM 155	Microcontroller Programming	3
WSI 200	GL Research Technologies	3
WSI 240	ROV Systems and Operations	3

## Course Sequence Guide

Course	Title	Credits
<b>Year 1</b>		
<b>Fall</b>		
AVF 141	Remote Pilot Flight	3
AVG 142	Remote Pilot Ground	3
<b>Credits</b>		<b>6</b>
<b>Spring</b>		
AVF 211	Commercial Drone Operations	4
Approved Course Elective		3-4
<b>Credits</b>		<b>7-8</b>
<b>Summer</b>		
AVF 241	Advanced Drone Operations	3
<b>Credits</b>		<b>3</b>
<b>Total Credits</b>		<b>16-17</b>

## Approved Course Electives

Choose any 3 or 4 credit course from list below

Course	Title	Credits
ART 174	Digital Photography I	3
AVF 261	Aerosonde UAS Flight Training	3
AVG 260	Aerosonde UAS Ground	4
BUS 101	Introduction to Business	3
CMT 107	Construction Supervision	4
EET 103	Electrical Studies I	3
EGY 101	Principles of Renewable Energy	3
GEO 115	Introduction to GIS	3
LWE 102	Police Operations	4
RAM 155	Microcontroller Programming	3
WSI 200	GL Research Technologies	3
WSI 240	ROV Systems and Operations	3