

Uncrewed Aerial Systems

NMC COURSE SEQUENCE



1 CERTIFICATE OF ACHIEVEMENT (Level I) REQUIREMENTS

COURSE	TITLE	CREDITS
UAS 107	Remote Pilot Ground	3
UAS 141	Remote Pilot Flight	3
UAS 211	Commercial Drone Operations	3
UAS 241	Advanced Drone Operations	3
<i>Directed electives</i>		
Select any 3 or 4 credit course, see website for full list.		3-4
TOTAL CREDITS		15-16

See website for more information at nmc.edu/programs/academic-programs/uas

2 ASSOCIATE OF APPLIED SCIENCE REQUIREMENTS

COURSE	TITLE	CREDITS
Uncrewed Aerial Systems (UAS) Technology		
UAS 107	Remote Pilot Ground	3
UAS 141	Remote Pilot Flight	3
UAS 211	Commercial Drone Operations	3
UAS 241	Advanced Drone Operations	3
WSI 300	Remote Sensing and Sensors	3
<i>Select one of the following:</i>		3
UAS 220	UAS Projects and Maintenance	
EET 260	System Engineering in Practice	
<i>Select one of the following electives:</i>		3-5
EET 204	Electrical Studies II	
EET 290	Engineering Tech Internship	
SVR 110	Fundamentals of Surveying	
UAS 255	UAS Safety Management	
Technical Specialty Requirements		
DD 170	CADD/Computer Modeling	4
EET 102	Intro to Engineering Tech	2
EET 103	Electrical Studies I	3
MFG 104	Fluid Power	3
RAM 155	Microcontroller Programming	3
General Education Requirements		
ENG 111	English Composition	4
<i>Select one of the following:</i>		3-4
ENG 112	English Composition	
ENG 220	Technical Writing	
BUS 231	Professional Communications	
PHL 105	Critical Thinking	3
<i>Select one of the following:</i>		4
BIO 106	Human Biology	
ENV 117	Meteorology & Climatology	
PHY 105	Physics of the World Around Us	
PHY 121		
<i>General Physics I</i>		
<i>Math Competency 1</i>		4
TOTAL CREDITS		60-63

3 BACHELOR OF BUSINESS ADMINISTRATION (BBA) DEGREE IN MANAGEMENT WITH AN UNCREWED AERIAL SYSTEMS SPECIALTY

Make your experience work for you

The partnership between Northwestern Michigan College and Davenport University awards full transfer credit for coursework from your:

- Associate in Applied Science, Uncrewed Aerial Systems Technology degree
- Credit for your valid Flight Instructor Certificate
- Additional NMC business credits

\$ Tuition costs are kept low by taking the maximum number of classes through NMC.

You can complete the bachelor's program in under two years.

What can you expect to gain? You'll master the art of managing, influencing, and steering organizations toward success. Dive into the world of risk management and hone your decision-making abilities.

Important skills like data analytics, project management, quality management and business strategy are also integrated into the curriculum.

Connect with us

Tony Sauerbrey — UAS program coordinator
nmc.edu/uas | tsauerbrey@nmc.edu

Northwestern Michigan College
 1701 E. Front Street, Traverse City, MI
 Admissions: (231) 995-1054
admissions@nmc.edu



UNCREWED AERIAL SYSTEMS



NEW CERTIFICATE, ASSOCIATE DEGREE, AND PATHWAY TO BACHELOR DEGREE

Explore the Future of Drone Technology: Cutting-edge facilities and equipment await you in Traverse City, MI!



Northwestern Michigan College



YOUR PATHWAY

Are you ready to soar to new heights in the world of Uncrewed Aerial Systems (UAS)?

Whether you dream of piloting drones, conducting aerial surveys, or advancing research in UAS technology, our program has you covered.



Discover your journey to a promising career in Uncrewed Aerial Systems.

Embark on your unique educational journey. NMC offers:




-  Specialized training
-  Certificate program
-  Complete an associate degree in 2 years
-  Direct transfer to a bachelor's degree with Davenport University located at the University Center in Traverse City, MI
-  Internship opportunities are available for additional credits.



STACK YOUR DEGREE

"They set you up for success with all of the certificates on top of an Associate's degree."

Austin Burnham, 25, transfer student

Start your NMC journey at nmc.edu/apply | 855.FIND.NMC   



Picture yourself below a clear blue sky, navigating a cutting-edge drone like a pro. NMC's UAS certificate program is your passport to this thrilling industry.



Small class sizes with excellent faculty interaction

DID YOU KNOW?

STARTING SALARIES CAN RANGE FROM

\$45,000 - \$68,000

UPPER RANGE SALARIES CAN RANGE FROM

\$100,000 - \$120,000



Enos Bacon, UAS Graduate class of 2021

Employer: Fulcrum Air

"I am flying a 68 lb. drone that lifts a 215 lb. robot. The robot then crawls down the power line. All this beyond visual line of sight."



AIRCRAFT

- UAV Factory Penguin C
- DJI Agras T20P Crop Sprayer
- AgEagle eBee X
- DJI M350 and Inspire 2
- DJI Mavic 3M Multispectral
- Pixhawk equipped aircraft
- DJI Air 2S and Phantom aircraft

What can you expect?

Our program is hands-on, offering you a chance to dive into all aspects of commercial drone operations and applications. Get ready to sharpen your skills and unlock the potential for a rewarding future in this exciting field.

DEDICATED LABS

At NMC we have dedicated labs for you to learn how to work on Uncrewed Aircraft Systems. You will have the opportunity to integrate avionics, solder wires, take apart engines, build airframes, and program autopilots on the aircraft you operate.



DEDICATED TRAINING FIELD

NMC has a dedicated airfield just for the use of drones. Students and instructors have the freedom to conduct all types of flight missions from entry level flying to agricultural spraying to launching to 40-pound airplanes.



When you complete NMC's program, you'll proudly hold an FAA Remote Pilot certificate, a must-have for anyone wanting to fly drones commercially. We're with you every step of the way, starting from the basics and gradually guiding you to operate high-grade drone systems like a pro.

Ready to put your new skills to the test?

You'll learn how to use drones for a wide range of commercial applications such as:

- > Aerial Photography
- > Land Surveying
- > Agricultural Operations
- > Infrastructure Inspections

We're here to support you:



- > Learn from industry experts
- > Enjoy beautiful Traverse City, MI
- > Live on campus
- > Stop by the Academic & Career Advising Center
- > Meet with a coach at the Student Success Center
- > Explore real-world learning

Careers in:

- > Agriculture
- > Construction
- > Energy
- > Government
- > Public safety
- > Transportation
- > Science

Whichever path you choose, UAS offers a dedicated faculty and staff available to help you reach your career goals.

The demand for drone operators is expected to grow by more than 50% over the next 5 years.

Start your UAS journey at nmc.edu/UAS   

Get started today!

