



Drone Pilot and Maintenance C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 1825

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate prepares students for positions in industries utilizing Unmanned Aerial Systems (UAS) by providing foundational knowledge and skills in UAS mission planning, safe flight operations, software and image applications, UAS maintenance, laws and regulations, data analytics, project management, and site inspection using UAS platforms. In addition, students will prepare for and conduct unmanned flights similar to those commonly performed in the industry, observing Federal Aviation Administrations (FAA) regulations that govern UAS operations. Students completing this certificate may use the credits towards the Geospatial Science Technician Associate in Applied Science degree (0224).

Milestone

Completion of AVAU 100 and AVAU 200 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Geospatial Science Program, West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AVAU 100	Drone Flight Orient.-FAA Exam	2 / 2.5
AVAU 150	Drone Maintenance	2 / 3
AVAU 200	Advanced Drone Flight-Capstone	2 / 3
GSCI 100	Intro to Geospatial Tech	3 / 3
GSCI 110	Beginning ArcGIS	3 / 5
GSCI 150	Drone Flight for Industry	3 / 4
GSCI 241	Remote Sens/AirPhoto Interpret	3 / 4
GSCI 250	Drone Map Analysis	3 / 4

Minimum Total Credit Hours

21 credits / 28.5 billing hours

Recommended Course Sequence

Semester I
AVAU 100 – Milestone course
GSCI 100
GSCI 110
GSCI 150

Semester II
AVAU 150
AVAU 200 – Milestone course
GSCI 241
GSCI 250

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.