Geospatial Science C.A.

Career Community: Computer Technology and Networking
Curriculum Code: 0834
Effective: Fall 2026 – Summer 2031

Purpose of the Major

This certificate program will emphasize development of components for GIS and project design based on application areas. The certificate allows beginners to become familiar with basic principles and those with some application background to become computer proficient in GIS. Students completing this certificate may use the credits towards the Geospatial Science Technician Associate in Applied Science degree (0224).

Milestone

Completion of GSCI 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course 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 the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Students beginning this pathway in Spring Semester may want to start with the Semester II courses as many Semester I courses are only offered in Fall Semester.

Contact Information

For further information, including 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
CITP 110	Intro to Programming – Python	4 / 4
GSCI 100	Intro to Geospatial Tech	3 / 3
GSCI 110	Beginning ArcGIS	3 / 5
GSCI 150	Drone Flight for Industry	3 / 4
GSCI 210	Global Positioning Systems	3 / 4
GSCI 240	Cartography in GIS	3 / 4
GSCI 241	Remote Sens/AirPhoto Interpret	3 / 4
GSCI 250	Drone Map Analysis	3 / 4

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the Graduation Requirements for Certificates. Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

31 credits / 40.5 billing hours

Recommended Course Sequence

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

Semester II
AVAU 150
AVAU 200
GSCI 241
GSCI 250

Semester III
CITP 110
GSCI 210
GSCI 240

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.