



Geospatial Science C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 1820

Effective: Fall 2023 – Summer 2028

Description

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 this course.

Additional Information

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

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.

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
GSCI 100	Intro to Geospatial Tech	3 / 3
GSCI 110	Beginning ArcGIS	3 / 5
GSCI 240	Cartography in GIS	3 / 4
GSCI 264	Web GIS	3 / 4

Program of Study Required Courses, Limited Choice – *Select one or two courses for a minimum of 4 credits*

Course Code	Course Title	Credit / Billing Hours
CITA 126	Microsoft Excel	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITP 130	Intro to Mobile App Devel	3 / 3
CITP 190	Intro to Programming in JAVA	4 / 4
CITW 160	Web Development HTML & CSS	3 / 3

Course Code	Course Title	Credit / Billing Hours
CITW 165	Web Development JavaScript	3 / 3
GSCI 120	Advanced ArcGIS	3 / 5
GSCI 150	UAS Flight for Industry	3 / 4
GSCI 210	Global Positioning Systems	3 / 4
GSCI 241	Remote Sens/AirPhoto Interpret	3 / 4
GSCI 250	UAS Map Analysis	3 / 4
GSCI 260	Automating Workflows in GIS	3 / 4
GSCI 271	Parcel Mapping	3 / 5

Minimum Total Credit Hours

16 credits / 20 billing hours

Recommended Course Sequence

Semester I
GSCI 100
GSCI 110 – Milestone course
Limited Choice

Semester II
GSCI 240
GSCI 264
Limited Choice if needed

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 title changes, and make course changes as needed, without prior notice.