LANSING COMMUNITY COLLEGE			
Computer, Engineering/Manufacturing Industrial Technologies			
Curriculum Code: 0834 (Effective Fall 2018 – Summer 2023)	**Geospatial Science C.A. Pathway**		

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).

For More Information
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.

Semester I	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
If beginning this pathway in the Spring Semester, you will need to start with the Semester II courses as Semester I courses are only offered in the Fall Semester.			
CIVL 101	Civil Drafting	None	3 / 4
GRET 100	GIS Principles & Applications	None	3 / 4
GRET 210	Global Positioning Systems	None	3 / 4
		Credits	**9 / 12**

Semester II	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
CITA 133	Microsoft Access Database	Reading Level 4	3 / 3
GRET 110	Beginning ArcGIS Desktop	Reading Level 3 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 5
GRET 240	Cartography in GIS	Minimum 2.0 in (GRET 110 or concurrently) and Reading Level 3 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
		Credits	**9 / 12**

Semester III	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
GRET 120	Advanced ArcGIS	Minimum 2.0 in GRET 110 and Reading Level 3 and Math Level 4	3 / 5
GRET 271	Parcel Mapping	Minimum 2.0 in GRET 110 and Reading Level 3 and Writing Level 2 and Math Level 4	3 / 5
		Credits	**6 / 10**
Semester IV	**Course Title**	**Prerequisites**	**Credit/Billing Hours**
Program of Study Requirements			
GRET 241	Remote Sens/AirPhoto Interpret	Minimum 2.0 in GRET 110 and Reading Level 3 and Math Level 4	3 / 4
GRET 275	GIS Proj Mgmt & Implementation	Department Approval	3 / 4
		Credits	**6 / 8**
		Total Credits	**30 / 42**