

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code:
0224 (Effective Fall
2017 – Summer
2022)

**Geographic Information Systems and Geospatial
Technology A.A.S. Pathway**

Semester I	Course Title	Prerequisites	Credit/ Billing Hours
Program of Study Requirements			
CITA 110	Intro to Microsoft Office	Reading Level 4	3 / 3
CITA 133	Microsoft Access Database	Reading Level 4	3 / 3
CIVL 101	Civil Drafting	None	3 / 5
GRET 100	GIS Principles & Applications	None	3 / 4
GRET 210	Global Positioning Systems	None	3 / 4
Credits			15 / 19
Semester II	Course Title	Prerequisites	Credit/ Billing Hours
Math Core Area - <i>Select 1</i>			
MATH 115	Technical Math II	(Minimum 2.0 in MATH 114 within 2 years or Math Level 5 within 2 years) and Reading Level 5	4 / 4
Global Perspectives and Diversity Core Area - <i>Select 1</i>			
GEOG 200	World Regional Geography	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 4
Writing Core Area - <i>Select 1</i>			
ENGL 121 (formerly WRIT 121)	Composition I	Reading Level 5 and Writing Level 6	4 / 4

Program of Study Requirements			
GRET 110	Beginning ArcGIS Desktop	Reading Level 3 and Math Level 4	3 / 5
GRET 240	Cartography in GIS	Minimum 2.0 in (GRET 110 (previously GRET 255) or concurrently) and Reading Level 3 and Math Level 4	3 / 4
Credits			18 / 21
Semester III	Course Title	Prerequisites	Credit/ Billing Hours
Science Core Area - <i>Select 1</i>			
GEOL 230	Environmental Geology	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6
Program of Study Requirements			
CITP 110	Intro to Computer Programming	Reading Level 5 and Math Level 4	4 / 4
GRET 120	Advanced ArcGIS	Minimum 2.0 in GRET 110 (previously GRET 255) and Reading Level 3 and Math Level 4	3 / 5
GRET 271	Parcel Mapping	Minimum 2.0 in GRET 110 (previously GRET 255) and Reading Level 3 and Writing Level 2 and Math Level 4	3 / 5

Additional Related Electives - <i>Select 2</i>			
CITA 126	Microsoft Excel	Reading Level 5	3 / 3
CITP 190	Intro to Programming in JAVA	Minimum 2.0 in (CITP 110 or CPSC 230) and Reading Level 5 and Math Level 4	4 / 4
GRET 220	Hydrological Systems	None	3 / 4
GRET 264	Web GIS	Minimum 2.0 in GRET 110 (previously GRET 255) and Reading Level 3 and Writing Level 2 and Math Level 4	3 / 4
GRET 277	Advanced GIS Data Structures	Minimum 2.0 in GRET 110 (formerly GRET 255) and Reading Level 3 and Writing Level 2 and Math Level 4	3 / 4
Credits			20-21 / 27-28
Semester IV	Course Title	Prerequisites	Credit/Billing Hours
Communication Core Area - <i>Select 1</i>			
COMM 110 (formerly SPCH 110)	Oral Comm in the Workplace	(Reading Level 5 and Writing Level 6) or AASD 104 concurrently	3 / 3
Program of Study Requirements			
GRET 241	Remote Sens/AirPhoto Interpret	Minimum 2.0 in GRET 110 (previously GRET 255) and Reading Level 3 and Math Level 4	3 / 4
GRET 260	Automating Workflows in GIS	Minimum 2.0 in GRET 110 (previously GRET 255) and Reading Level 3 and Writing Level 2 and Math Level 4	3 / 4
GRET 275	GIS Proj Mgmt & Implementation	Department Approval	3 / 4

Additional Related Electives - <i>Select 1</i>			
CITA 126	Microsoft Excel	Reading Level 5	3 / 3
CITP 190	Intro to Programming in JAVA	Minimum 2.0 in (CITP 110 or CPSC 230) and Reading Level 5 and Math Level 4	4 / 4
GRET 220	Hydrological Systems	None	3 / 4
GRET 264	Web GIS	Minimum 2.0 in GRET 110 (previously GRET 255) and Reading Level 3 and Writing Level 2 and Math Level 4	3 / 4
GRET 277	Advanced GIS Data Structures	Minimum 2.0 in GRET 110 (formerly GRET 255) and Reading Level 3 and Writing Level 2 and Math Level 4	3 / 4
Credits			15 / 18-19
Total Credits			68-69 / 85-87