

# Columbus State Community College

## Plan of Study

**BUSINESS AND ENGINEERING  
TECHNOLOGIES DIVISION**  
Effective Autumn Semester 2016

## Construction Sciences & Engineering Technologies

### Geographic Information Systems

Name \_\_\_\_\_  
Student # \_\_\_\_\_  
Date Entered \_\_\_\_\_  
Advisor \_\_\_\_\_

FIRST SEMESTER			
	G/T/B	CR	TERM
<b>GIS 1100</b> Introduction to GIS	T	3	
<b>GIS 1101</b> Acquiring GIS Data	T	2	1st
<b>GIS 1102</b> Mapping for Everyone	T	2	2nd
<b>ENGL1100</b> Composition I	G	3	
<b>COLS 1100</b> First Year Experience Seminar	B	1	
<b>ITST 1101</b> Computer Applications in CSET I <i>OR</i>	B	2	1st
<b>CSCI 1101</b> Computer Concepts and Applications	B		3
<b>XXXX XXXX</b> Basic Elective (Select from list)	B	2	
<b>TOTAL</b>		<b>15</b>	

THIRD SEMESTER			
	G/T/B	CR	
<b>GIS 2100</b> Introduction to GIS Databases	T	3	
<b>GIS 2110</b> Introduction to Spatial Analysis	T	3	
<b>GIS 2120</b> Introduction to GIS Programming	T	3	
<b>GIS 2130</b> Georeferencing and Editing	T	2	
<b>HUM XXXX</b> Humanities (Select from list on back)	G	3	
<b>XXXX XXXX</b> Basic Elective (Select from list)	B	2	
<b>TOTAL</b>		<b>16</b>	

SECOND SEMESTER			
	G/T/B	CR	TERM
<b>GIS 1200</b> GIS Software I	T	2	1st
<b>GIS 1201</b> GIS Software II	T	2	2nd
<b>GIS 1202</b> Planning and Implementing GIS	T	2	
<b>STAT1350</b> Elementary Statistics <i>OR</i>			
<b>MATH 1111</b> Technical Math	G	3	
<b>XXX XXXX</b> Natural Science (Select from list on back)	G	3	
<b>GEOG 2900</b> Elements of Cartography	B	3	
<b>TOTAL</b>		<b>15</b>	

FOURTH SEMESTER			
	G/T/B	CR	
<b>GIS 2200</b> Image Management & Analysis	T	3	
<b>GIS 2299</b> Advanced GIS Applications	T	4	
<b>GIS XXXX</b> Technical Elective (Select from list)	T	1	
<b>SBS XXXX</b> (Select from list on back)	G	3	
<b>COMM 2200</b> Business Communication	B	3	
<b>TOTAL</b>		<b>14</b>	

SUMMER SEMESTER			
	G/T/B	CR	
<b>GIS 2950</b> GIS Practicum & Seminar	T	3	
<b>XXXX XXXX</b> Basic Elective (Select from list)	B	2	
<b>TOTAL</b>		<b>5</b>	

TECHNICAL ELECTIVES (Choose 1)			
			CR
<b>GIS 2510</b> Advanced Spatial Analysis			2
<b>GIS 2520</b> Advanced GIS Programming			2
<b>GIS 2530</b> Introduction to ArcGIS Server			2
<b>GIS 2540</b> GIS In Business			2
<b>GIS 2550</b> GIS in 3D			2
<b>GIS 2594</b> Current Topics: GIS			1-4

GRADUATION REQUIREMENTS	
G = General Education B = Basic Education T = Technical Education	
Total General Ed.	15
Total Basic	15
Total Non-Technical	30
Total Tech. Ed.	35
<b>TOTAL CREDITS</b>	<b>65</b>

BASIC ELECTIVES (Choose 2)			
			CR
<b>ARCH 1120</b> Basic CAD Drafting			1
<b>ARCH 1130</b> AutoCAD 2D			4
<b>ARCH 1274</b> Revit I			2
<b>BMGT 2250</b> Project Management Principles			3
<b>CMGT 1105</b> Construction Documents			3
<b>CMGT 2215</b> Introduction to Building Information Modeling (BIM)			3
<b>CSCI 1000</b> Intro to HTML			1
<b>CSCI 1103</b> Intro to Programming Logic			3
<b>CSCI 1145</b> HTML			3
<b>CSCI 1152</b> Python Programming			3
<b>ITST 2252</b> Computer Programming for Technicians			2
<b>SURV 1410</b> Introduction to Surveying			3
<b>SURV 1460</b> Computer Applications Construction Science			2

# GEOGRAPHIC INFORMATION SYSTEMS

## CURRICULUM GUIDE

### GE-SOCIAL BEHAVIORAL SCIENCE REQUIREMENT (SELECT ONE) - *GEOG 2400 PREFERRED*

		<b>CR</b>
ANTH 2202	Introduction to Cultural Anthropology	3
ECON 2200	Principles of Microeconomics	3
<b>GEOG 2400</b>	<b>Economic and Social Geography</b>	<b>3</b>
PSY 1100	Introduction to Psychology	3
POLS 1100	American Government	3
SOC 1101	Introduction to Sociology	3

### GE-ART/HUMANITIES REQUIREMENT (SELECT ONE) - *PHIL 1130 PREFERRED*

		<b>CR</b>
ARCH 2100	History of Architecture	3
HART 1201	History of Art I	3
HART 1202	History of Art II	3
HIST 1111	European History to 1648	3
HIST 1112	European History since 1648	3
HIST 1151	American History to 1877	3
HIST 1152	American History since 1877	3
HIST 1181	World Civilization I: Non-Western/Non-American to 1500	3
HIST 1182	World Civilization II: Non-Western/Non-American Since 1500	3
HIST 2223	African American History I: 1451-1876	3
HIST 2224	African American History II: 1877-Present	3
HUM 1100	Introduction to Humanities	3
HUM 1270	Comparative Religions	3
MUS 1251	Survey of Music History	3
PHIL 1101	Introduction to Philosophy	3
<b>PHIL 1130</b>	<b>Ethics</b>	<b>3</b>

### GE-NATURAL /PHYSICAL SCIENCES REQUIREMENT (SELECT ONE) - *ESSH 1101 PREFERRED*

		<b>CR</b>
ASTR 1141	Life in the Universe	3
ASTR 1161	The Solar System	3
ASTR 1162	Stars and Galaxies	3
ASTR 1400	Astronomy Laboratory	1
BIO 1111	Introduction to Biology	4
BIO 1112	Human Biology	4
BIO 1113	Biological Sciences I	4
BIO 1114	Biological Sciences II	4
BIO 1125	Plant Biology	4
BIO 1127	Environmental Science I	4
BIO 2215	Introduction to Microbiology	4
BIO 2232	Human Physiology	4
CHEM 1100	Chemistry and Society	5
CHEM 1111	Elementary Chemistry I	4
CHEM 1112	Elementary Chemistry II	4
CHEM 1171	General Chemistry I	5
CHEM 1172	General Chemistry II	5
<b>ESSH 1101</b>	<b>Intro to Environmental Science, Safety, Health</b>	<b>3</b>
GEOL 1101	Introduction to Earth Science	4
GEOL 1105	Geology and the National Parks	3
GEOL 1121	Physical Geology	4
GEOL1122	Historical Geology	4
GEOL 1151	Natural Disasters	3
PHYS 1103	World of Energy	3
PHYS 1200	Algebra-Based Physics I	5
PHYS 1201	Algebra-Based Physics II	5
PHYS 1250	Calculus-Based Physics I	5
PHYS 1251	Calculus-Based Physics II	5