

**Northwest Missouri State University
St. Charles Community College
Bachelor of Science in Geographic Information Systems
Articulation Agreement**

YEARS ONE AND TWO AT ST. CHARLES
ASSOCIATE OF ARTS

GENERAL EDUCATION REQUIREMENTS	CREDIT HOURS
Orientation	1
COL 101 Orientation to College	
Communication	9
Choose <u>one</u> HIS or POL course:	
HIS 101 U.S. History to 1877 or	3
HIS 102 U.S. History since 1877 or	3
HIS 115 U.S. History since 1945 or	3
HIS 270 History of Missouri or	3
POL 101 American Government or	3
POL 102 State and Local Government	3
and	
GEO 100 Principles of Geography	3
and	
GEO 102 Geography: The Western World	3
Humanities	9
Choose 1 course from group I:	3
ART 101, 150, 160, 170	
MUS 111, 112, 231, 232	
MUS 113, 114, 229, 230	
THE 122, 123, 124, 229, 230	
and	
Choose 1 course from group II:	3
BUS 105	
CPT 105	
Any LIT	
Any PHL	
*Any Foreign Language	
And	
Choose 1 course from group I or II	3
<i>* A Foreign Language could be taken as one option to meet Northwest's Institutional Requirement for a multicultural course.</i>	
Multicultural/Valuing	3
GEO 101 Geography: The Eastern World	3
Mathematics	3-4
MAT 160 College Algebra	4
Natural Science	7
BIO 100 Introductory Biology or	3
BIO 101/103 General Biology I and Lab or	4
BIO 110/113 Human Biology and Lab or	4
BIO 120 Introduction to Ecology or	3
BIO 122 Environmental Science or	3
BIO 125/127 General Botany and Lab	4
And	
PHY 125/127 Introduction to Physical Geology and Lab	4
Capstone	1
COL 299 Portfolio Assessment	1

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Total General Education Requirements for AA**42****Institutional Requirements for AA 3**

CPT/BAS 103 Microcomputer Applications 3

Total Institutional Requirements**3****Suggested classes to finish AA degree with a Geography Pathway 19**

MAT 175	Introductory Statistics	3	<i>(required by Northwest)</i>
GEO 120	Introduction to Geographic Information Systems	3	<i>(transfers as 32-362 Cartography)</i>
GEO 225	Advanced GIS	3	<i>(transfers as 32-365 GIS)</i>
GEO 299	Topics in Geography	3	<i>(transfers as 32-211 Topics in Geography)</i>
GEO 115	Geography of North America	3	<i>(transfers as 32-340 Geography of N. Am.)</i>
GEO 220	GIS Internship	1-3	<i>(transfers as 32-415 Internship)</i>
GEO 221	GIS internship II	1-3	<i>(transfers as 32-415 Internship)</i>
GEO 222	GIS internship III	1-3	<i>(transfers as 32-415 Internship)</i>

Electives to complete minimum hours required for AA**19****Total hours to complete AA****64**

YEARS THREE AND FOUR AT NORTHWEST MISSOURI STATE UNIVERSITY
 BACHELOR IN SCIENCE GEOGRAPHIC INFORMATION SYSTEMS

Core Required Courses 26

32-201	Maps and Map Interpretation	3
32-207	GPS Fundamentals	3
32-221	Economic Geography	3
32-263	Remote Sensing	3
32-410	Geographic Thought and Research Methods	3
32-465	Introduction to Customized GIS	3
32-499	Senior Seminar	1
32-565	Advanced GIS	3
44-140	Introduction to Programming Using Visual Basic	3
44-346	Database Applications	1

Electives in GIS 6**Choose from:**

32-302	Cadastral Mapping	2
32-415	Internship in Geography	1-6
32-562	Digital Cartography and Geovisualization	3
32-563	Digital Image Processing	3
Other Advisor Approved Electives		

Elective in Regional Geography 3

32-340	Geography of North America or	3
32-441	Geography of Europe or	3
32-442	Geography of Asia or	3
32-444	Geography of Africa or	3
32-445	Geography of Latin America	3

Area of Emphasis 12

Data and Technology Emphasis
 Geographic Emphasis
 Earth Technology Emphasis
 Civil/Public Emphasis

See classes required for each emphasis in catalog**Remaining Institutional Requirement 3**

Multicultural/Diversity Competency- See Northwest Catalog for course options which include beginning level modern languages. This requirement may be taken at SCC as a Humanities option (see above). Students are encouraged to seek advisement from Northwest regarding appropriate courses.

Electives to total 124 hours**Total Credits Required****124****9/08**