

# BS in GEOGRAPHY: Geospatial Intelligence Emphasis (733732) MAP Sheet

Department of Geography

For students entering the degree program during the 2008–2009 curricular year.



UNIVERSITY CORE AND GRADUATION REQUIREMENTS				PROGRAM REQUIREMENTS (60–62.0 total hours)			
UNIVERSITY CORE REQUIREMENTS (48.5 hours minimum)				<b>Complete the following core courses:</b>			
<u>Requirements</u>	<u>#Classes</u>	<u>Hours</u>	<u>Classes</u>	Geog 100 The Geographic Approach	1.0	<b>Complete two courses from the following electives:</b>	
<b>Doctrinal Foundation</b>				Geog 101 Global Environ.: Undrst. Physical Geog.	3.0	Aeros 410 National Security Affairs	3.0
Book of Mormon	2	4.0	RelA 121/H and 122/H	Geog 110* Intro to Natural Hazards	3.0	Aeros 411 National Security Affairs	3.0
New Testament	1	2.0	RelA 211/H or 212/H	Geog 120* Geography and World Affairs	3.0	Hist 240 Middle East History to 1800	3.0
Doctrine and Covenants	1	2.0	RelC 324/H or 325/H	Geog 130* Introduction to Human Geography	3.0	Hist 241 Middle East History from 1800	3.0
<b>The Individual and Society</b>				Geog 211 Map Use and Interpretation	3.0	Hist 331 Twentieth-Century Russia	3.0
Wellness	1or3	1.5–2.0	from approved list	Geog 212 Introduction to GIS	3.0	Hist 342 Twentieth-Century China	3.0
Citizenship				Geog 213 Earth Observation & Image Interpreta	3.0	Hist 346 Korea	3.0
American Heritage	1–2	3–6.0	from approved list	Geog 222 Quantitative Reasoning	3.0	Hist 348 Modern Southeast Asia	3.0
Global & Cultural Awareness	1	3.0	Geog 120*, 130*, or 271*	Geog 271* Middle East	3.0	MESA 201 Introduction to Middle East Studies	3.0
<b>Skills</b>				Geog 303 Biogeography	3.0	MESA 350 Islam in Contemporary Society	3.0
Effective Communication				Geog 313 Remote Sensing 1	3.0	PI Sc 348 Korea, Taiwan, & S. E. Asian Politics	3.0
First-Year Writing	1	3.0	from approved list	Geog 322 Statistics for Geographers	3.0	PI Sc 350 Theories of Comparative Politics	3.0
Adv Written & Oral Communic	1	3.0	Engl 315 recommended	Geog 331 Economic Geography	3.0	PI Sc 357 Middle East: Political Systems	3.0
Quantitative Reasoning	0–1	0–3.0	Stat 221*	Geog 341 Political Geography	3.0	PI Sc 377 National Security Affairs	3.0
Languages of Learning (Math or Language)	1	3.0	Stat 221*	<b>Complete one course from the following GIS courses:</b>		PI Sc 378 International Conflict	3.0
<b>Arts, Letters, and Sciences</b>				Geog 217 Programming for Geographers	4.0	PI Sc 381 Internatl. Relations of the Middle East	3.0
Civilization 1 and 2	2	6.0	from approved list	Geog 219 Global Positioning Systems & Geodesy	2.0	PI Sc 385 International Relations of Asia	3.0
Arts	1	3.0	from approved list	Geog 311 Geographic Data Management	3.0	PI Sc 388 Chinese Foreign Policy	3.0
Letters	1	3.0	from approved list	Geog 312 Cartographic Design	4.0	PI Sc 452 Islam and Politics	3.0
Scientific Principles & Reasoning				Geog 317 Analytical Cartography	4.0	PI Sc 458 Totalitarianism	3.0
Biological Science	1–2	3–6.0	from approved list	Geog 412 Problem Solving with GIS	3.0	PI Sc 471 Intelligence and National Security	3.0
Physical Science	1–2	3–7.0	from approved list	Geog 413 Remote Sensing 2	3.0	PI Sc 474 Arab-Palestinian-Israeli Conflict	3.0
Social Science	1	3.0	from approved list	<b>Complete two regional geography courses from the following:</b>		<b>Complete the following:</b>	
<b>Core Enrichment: Electives</b>				Geog 255 Middle and South America	3.0	Geog 441R Sem in Geog & Geospatial Intelligen	3.0
Religion Electives	3–4	6.0	from approved list	Geog 265 Russia and the Former Soviet Union	3.0	<b>Complete exit assessment and exit interview during final semester, no later than one month before graduation.</b>	
Open Electives	Variable	Variable	personal choice	Geog 272 East Asia	3.0		
				Geog 273 Southeast Asia	3.0		
				Geog 285 Environment & Development in Africa	3.0		
<b>GRADUATION REQUIREMENTS:</b>							
Minimum residence hours required		30.0					
Minimum hours needed to graduate		120.0					

FOR UNIVERSITY CORE AND PROGRAM QUESTIONS CONTACT THE ADVISEMENT CENTER  
\*THESE CLASSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (6.0 hours overlap)

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2008–2009**

**Suggested Sequence of Courses:**

**FRESHMAN YEAR**

1st Semester

Geog 100 (FWSpSu)	1.0
Geog 101 (FWSpSu)	3.0
1 <sup>st</sup> Year Writing	3.0
Or A Htg 100	(3.0)
Rel A 121	2.0
General Education courses, and/or general electives	6.0
<b>Total Hours</b>	<b>15.0</b>

2nd Semester

Geog 120 (FWSpSu)	3.0
Geog 211 (FWSp)	3.0
A Htg 100	3.0
or 1 <sup>st</sup> Year Writing	(3.0)
Rel A 122	2.0
General Education courses, and/or general electives	4.0
<b>Total Hours</b>	<b>15.0</b>

**SOPHOMORE YEAR**

3rd Semester

Geog 110	3.0
Geog 212 (FW)	3.0
Geog 271	3.0
Geog 322	3.0
Rel A 211 or 212	2.0
General Education courses, and/or general electives	2.0
<b>Total Hours</b>	<b>16.0</b>

4th Semester

Geog 130 (FW)	3.0
Geog 213	3.0
Geog 222	3.0
Geog 331	3.0
Religion elective	2.0
General Education courses, and/or general electives	1.0
<b>Total Hours</b>	<b>15.0</b>

**Note:** Students are encouraged to complete an average of 15 credit hours each semester or 30 credit hours each year, which could include spring and/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.

**JUNIOR YEAR**

5th Semester

Geog 313	3.0
Geography GIS course	3.0
Geography physical elective	3.0
Geography regional elective	3.0
Rel C 324 or 325	2.0
General Education courses, and/or general electives	1.0
<b>Total Hours</b>	<b>15.0</b>

6th Semester

Geog 303	3.0
Geography physical elective	3.0
Geography regional elective	3.0
Religion elective	2.0
General Education courses, and/or general electives	3.0
<b>Total Hours</b>	<b>14.0</b>

**SENIOR YEAR**

7th Semester

Geog 341	3.0
Geog 441R	3.0
Religion elective	2.0
General Education courses, and/or general electives	7.0
<b>Total Hours</b>	<b>15.0</b>

8th Semester

Geog 441R	3.0
Geography intelligence electives	6.0
General Education courses, and/or general electives	6.0
Exit Interview and Exit Assessment	0.0
<b>Total Hours</b>	<b>15.0</b>

Your faculty advisor can assist you in choosing electives to meet your total hour requirement.

**THE DISCIPLINE:**

Geography offers a variety of programs centered around spatial analysis and tailored, so far as possible, to meet the future needs of individual students. Our modern computer laboratory allows students to gain practical experience with geographical information systems (GIS), remote sensing, cartography, and other programs in planning, urban, travel, and population studies.

**RESEARCH OPPORTUNITIES:**

Contact the Geography Department for this information.

**INTERNSHIPS, CO-OP & PRACTICAL ED:**

Contact the Geography Department for this information.

**FINANCING:**

Many students work up to 20 hours per week. Some find employment in campus offices and some junior and senior students obtain teaching or research assistantships. Most of our students obtain summer jobs that make use of their training and interests.

**CAREERS:**

Graduates would expect to be employed in a wide range of both governmental and private positions. Government Agencies hiring in this field would include the NGA (National Geospatial Agency), CIA, DIA (Defense Intelligence Agency), NSA (National Security Agency), the Air Force, Army, Marine Corps, and Navy. Jobs may also be found at more than 80 private firms that contract with those agencies to provide reconnaissance equipment, cameras, radars, radio and other receivers and platforms to convey them over areas of interest, as well as the software to operate, collect, exploit and disseminate the information. Job titles would include Image Analyst, Image Processor, Open Source Intelligence Analyst, Current Intelligence, Collection Analyst, Cartographers, GIS, Political Analyst, Economic Analyst, Population Analyst, Regional Analyst, and Physical Geographer. Additional jobs could be found in the development arena working with the contractors creating the hardware and software to make the systems and processes of intelligence function.

For more information on careers in your major, please refer to *From Major to Career*, a publication located in all college advisement centers, or online at:  
<http://ccc.byu.edu/majortocareer/Book.pdf#page=mode=bookmarks>.

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