Bachelor of Science
GEOGRAPHIC INFORMATION SCIENCE EXTENDED
2007-2008 Undergraduate Catalog

Degree Progression Plan

College of Social and Behavioral Sciences

Freshman Year							
1st term				**2nd term**			
GGR240,241, Or GGR346	World Geography West, East or United States Geography	3		GGR230	Map and Image Interpretation	4	
MAT 125 or ENG 105	Pre-Calculus or Critical Reading and Writing	4 4		*MAT 125 or ENG 105*	Pre-Calculus or Critical Reading and Writing	4 4	
LS	Liberal Studies	3		*LS*	Liberal Studies (SCI:LAB)	4	
LS	Liberal Studies	3		*LS*	Liberal Studies (SCI:SAS)	3	
FS Seminar	Liberal Studies	3					
	Total units	16			Total units	15	

Sophomore Year							
3rd term				**4th term**			
GGR250	Physical Geography	4		GGR 331	GIS Principles I: Foundations	4	
LS	Liberal Studies	3		GGR330	Cartographic Design	3	
LS	Liberal Studies	3		*LS*	Liberal Studies	3	
GGR Elective	See Catalog or Advisor	3		STA270	Statistics	3	
GE	General Elective	2		GE	General Elective	2	
	Total units	15			Total units	15	

Junior Year							
5th term				**6th term**			
GGR370W	Cultural Geography	3		GGR380W	Geographic Thought & Methodology	3	
GGR422	Remote Sensing Techniques I	4		*LS*	Liberal Studies	3	
GGR 423 or PL431	Remote Sensing Techniques II Computer Mapping for Planning	4		GGR 435 or GGR436	GIS Programming I GIS Programming II	3	
GGR433	GIS Principles II	4		GGR371	Urban and Economic Geography	3	
				GE	General Elective	3	
	Total units	15			Total units	15	

Senior Year							
7th term				**8th term**			
LS	Liberal Studies	3		GGR480C	Field Analysis	4	
GGR 259 or GGR461	Landforms and Regions Fund. of Weather & Climate	3 4		GGR437 or GGR438	GIS Analysis I GIS Analysis II	4	
GGR Elective	See Catalog or Advisor	3		GE	General Elective	3	
CENE 270	Plane Surveying	3		GE	General Elective	3	
GGR Elective	See Catalog or Advisor	3		GE	General Elective	1	
	Total units	15-16			Total units	15	

- This 8-term plan is to be used in conjunction with the academic catalog and degree progress report.
- Students should see an academic advisor regularly to confirm their academic progress.
- Students must see an academic advisor before enrollment for the 7th term in preparation for graduation.
- Student must submit graduation application in the 7th term.

PROGRAM INFORMATION

You may use individualized coursework (GGR 408, 485, and 497) toward your Geographic Information Science Degree with prior written approval from your Geography faculty advisor and the Department of Geography, Planning and Recreation. You must use only individualized coursework with a GGR prefix. Individualized coursework includes the following: GGR 408 (Field Work 1-12 units maximum),GGR 485 (Undergraduate Research 1-6 units maximum), and GGR 497 (Independent Study 1-6 units maximum).

Note that GGR 499 and 399 may be taken for 1-3 units maximum. Consult your faculty advisor when selecting from these topics courses. Some required courses or options for requirements require pre-requisites. Check with the Catalog or your Geography Advisor. Pre-Calculus (MAT125) is the required minimum Math as it is a pre-requisite for many of the Geography requirements.

You must have an overall or cumulative grade point average of 2.5 and you must have a grade of "C" or higher in all courses applied to your major to earn your Geographic Information Science degree.

GENERAL INFORMATION

- This 8-term plan is to be used in conjunction with the academic catalog and degree progress report.
- Honors students complete different requirements to meet NAU's Liberal Studies program. Students should consult an Honors Program advisor for complete information on fulfilling Honors Liberal Studies requirements.
- Students should see an academic advisor regularly to confirm their academic progress.
- Students must see an academic advisor before enrollment for the 7th term in preparation for graduation.
- All students are required to complete at least 120 total units which includes:
  - 35 units of liberal studies courses: http://www4.nau.edu/aio/Articulation/LScourselist.htm
  - 6 units of diversity courses: http://www4.nau.edu/aio/Articulation/DiversityCourseList/htm
  - 30 units of upper division courses (300-400 level), 18 of these units must be taken at NAU
- English placement: http://www.nau.edu/comp/placement.html
- Math placement http://www.nau.edu/ctc/testing/mathplacement.htm

CONTACT INFORMATION

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