

# FLORIDA ATLANTIC UNIVERSITY™

## Graduate Programs—PROGRAM CHANGE REQUEST

UGPC APPROVAL \_\_\_\_\_  
 UFS APPROVAL \_\_\_\_\_  
 CATALOG \_\_\_\_\_

DEPARTMENT: GEOSCIENCE

COLLEGE: SCIENCE

PROGRAM NAME: COMBINED BACHELOR OF ARTS WITH MAJOR IN GEOGRAPHY

Masters of Arts  
Credits

**EFFECTIVE DATE**

(PROVIDE TERM/YEAR)

FALL 2012 2013

C. Roberts

PLEASE EXPLAIN THE REQUESTED CHANGE(S) AND OFFER RATIONALE BELOW AND/OR ATTACHED:

THIS IS A FAST TRACK BACHELORS OF ARTS TO MASTERS OF ARTS DEGREE. STUDENTS APPLY THE FIRST SEMESTER OF THEIR SENIOR YEAR, AND TAKE GRADUATE LEVEL VERSIONS OF REQUIRED UNDERGRADUATE COURSES OR OTHER GRADUATE COURSES IN THEIR SENIOR YEAR. THESE COURSES COUNT TOWARDS BOTH DEGREES. THEY EARN THEIR BA AT THE END OF THE SENIOR YEAR, AND ARE ADMITTED TO THE MA PROGRAM WITH 9-12 CREDITIS COMPLETED.

A TOTAL OF 120 CREDITS ARE NEEDED FOR THE BA, AND A MINIMUM OF 22 ADDITIONAL GRADUATE CREDITS WOULD BE TAKEN. STUDENTS WOULD HAVE 34 CREDITS OF GRADUATE COURSEWORK AT THE END OF THE PROGRAM, WHICH WOULD BE COMPLETED NO MORE THAN 18 MONTHS AFTER THEY FINISHED THE BA DEGREE.

Faculty contact, email and complete phone number:

Dr. Charles Roberts, [Croberts@fau.edu](mailto:Croberts@fau.edu)  
 297-3254

Consult and list departments that might be affected by the change and attach comments.  
 None, this is internal to the Geoscience program.

**Approved by:**

Department Chair: \_\_\_\_\_

College Curriculum Chair: \_\_\_\_\_

College Dean: \_\_\_\_\_

UGPC Chair: \_\_\_\_\_

Graduate College Dean: \_\_\_\_\_

UFS President: \_\_\_\_\_

Provost: \_\_\_\_\_

**Date:**

2/5/13

2/9/13

2/5/13

2/20/13

Email this form and syllabus to [UGPC@fau.edu](mailto:UGPC@fau.edu) one week before the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website prior to the meeting.

## Combined Bachelor of Arts/Master of Arts with Major in Geography

This accelerated, five-year program leads to both Bachelor of Arts (B.A.) and a Master of Arts (M.A.) degrees. Students must maintain a GPA of 3.0 in upper-division and graduate courses. . Because of the accelerated nature of the program, students should take the GRE exam by the end of their first semester in their junior year, and Students apply to the B.A./M.A. program in the second semester of their junior year.

### Prerequisite Coursework for Transfer Students

Students transferring to Florida Atlantic University must complete both lower-division requirements (including the requirements of the Intellectual Foundations Program) and requirements for the college and major. Lower-division requirements may be completed through the A.A. degree from any Florida public college, university or community college or through equivalent coursework at another regionally accredited institution. Before transferring and to ensure timely progress toward the baccalaureate degree, students must also complete the prerequisite courses for their major as outlined in the *Transfer Student Manual* (see [www.fau.edu/registrar/tsm.php](http://www.fau.edu/registrar/tsm.php)).

All courses not approved by the Florida Statewide Course Numbering System that will be used to satisfy requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment.

### Requirements and Eligibility

In addition to the University and Charles E. Schmidt College of Science requirements, students seeking a B.A./M.A. degree in Geography must complete the following courses.

The core courses below (18 credits) are required of all students for the B.A. in Geography. Students then complete 6 credits from each of the three areas of emphasis within geography (environmental systems, human systems and GIScience - 18 credits). The remaining 15 credits are additional courses chosen from the three areas of emphasis mentioned above constituting a specialization in geography. Total credits for the B.A. in Geography are 51.

Students would begin taking graduate courses in their senior year that would apply to both the B.A. and M.A. degree. These courses must be 5000 level or higher. Some courses, highlighted in bold, have a 5000 level version that can be counted towards the graduate degree. Up to 12 credits of graduate work taken in the senior year can be counted towards both the undergraduate and graduate degree. The student should apply for a degree in the senior year. The program can be completed in 5 years by using 9 credits from their bachelors degree to count towards their masters degree.

Core Courses (all required)		
World Geography	GEA 2000	3
Introduction to Physical Geography	GEO 2200C	3
Weather and Climate	MET 2010	3
Introduction to Mapping and GIS	GIS 3015C	3
Quantitative Methods	GEO 4022	3
Human-Environmental Interactions in South Florida	GEA 4275	3
<b>Core Total</b>		<b>18</b>

<b>Emphasis Areas (select 6 credits from each of the three areas below, courses shown in bold may be taken for graduate credit in the senior year)</b>		
<b><i>Environmental Systems</i></b>		
<b>Biogeography</b>	<b>GEO 4300 or GEO 5305</b>	<b>3</b>
Coastal and Marine Science	GLY 3730	3
Environmental Issues in Atmospheric and Earth Science	ESC 3704	3
Geomorphology	GLY 4700C	3
Hydrogeology	GLY 4822	3
Water Resources	GEO 4280C	3
<b><i>Human Systems</i></b>		
American Cultural Landscape	GEO 4422	3
Geography of Latin America and the Caribbean	GEA 4405	3
Tourism and Commercial Recreation	GEO 4542	3
Transportation and Spatial Organization	GEO 4700	3
Urban Geography	GEO 4602	3
<b><i>GIScience</i></b>		
<b>Principles of GIS</b>	<b>GIS 4043C or GIS 5051C</b>	<b>3</b>
<b>Applications in GIS</b>	<b>GIS 4048C or GIS 5500C</b>	<b>3</b>
Geovisualization and GIS	GIS 4138C	3
<b>Remote Sensing of the Environment</b>	<b>GIS 4035C or GIS 5038C</b>	<b>3</b>
<b>Digital Image Analysis</b>	<b>GIS 4037C or GIS 5033C</b>	<b>3</b>
<b>Programming in GIS</b>	<b>GIS 4102C or GIS 5103C</b>	<b>3</b>
Photogrammetry and Aerial Photograph Interpretation	GIS 4021C	3
Spatial Data Analysis	GEO 4167C	3
Introduction to Hydrogeology Modeling and Aquifer Test	GLY 4832C	3
<b>Minimum credits required from Emphasis Areas</b>		<b>18</b>

<b>Specialization in Geography</b>	
The remaining requirements for the B.A. in Geography are 15 credits of additional courses chosen from the three areas of emphasis within geography (environmental systems, human systems and GIScience) listed in the table above. The courses should be selected in consultation with the student's advisor based on the student's interests and career goals.	
<b>Specialization Total</b>	<b>15</b>

**Additional Graduate Level Courses for the Masters degree**

The student should select the nonthesis option and choose from the list, including up to 12 credits taken as a senior.

<b>Non-Thesis Option Requirements</b>		
Human-Environmental Interactions	GEA 6277	3
Research in the Geosciences	GEO 6118	3
Geosciences Colloquium Series	GEO 6920	1
<b>Geography Seminar Core</b> (Choose a minimum of five courses from the following list. <b>Note:</b> DIS courses cannot be substituted for any course on this list.)		
Environmental Restoration	EVR 6334	3
LIDAR Remote Sensing and Applications	GIS 6032C	3
Restoration Implementation and Management	EVR 6358	3
Seminar in Geographic Methodology	GEO 6117	3
Plants and People	GEO 6317	3
Culture, Conservation and Land Use	GEO 6337	3
Seminar in Urban Area Analysis	GEO 6608	3
Seminar in Regional or Systematic Geography	GEO 6938	3
Advanced Remote Sensing	GIS 6039	3
Topics in Geoinformation Science	GIS 6120	3
Hyperspectral Remote Sensing	GIS 6127	3
Graduate Credits taken in the senior year		<b>12</b>
<b>Total Minimum Credit Requirements for the Degree</b>		<b>34</b>