

New Combined Degree Program Request

UUPC Approval 3-29-21
UGPC Approval
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Catalog

Catalog						
New Combined Degree Program Request						
Proposed Program: BS/MS Geosciences CIP: 40.0699 Effective Date (Term/Year): Fall / 2021 (e.g. Fall/2020)						
Proposed Program:					-aii/2020)	
Proposed Combined Program Information	Undergraduate			Graduate		
Degree Level (e.g. B.A., B.S., M.A., M.S., etc.)	B.S.		M.S.	M.S.		
Program Name (e.g. Physics, Engineering, etc.)	Geosciences		Geosci	Geosciences		
College	Science		Science	Science		
Department	Geosciences		Geoscie	Geosciences		
Program Description (provide a brief description of the program, including thesis or non-thesis option)	This accelerated, five-year program leads to both a B.S. in Geosciences with Geography focus and a M.S. in Geosciences (non-thesis) with a focus on Human Environment and Sustainable Science or Geographic Information Science. Students apply to the B.S./M.S. program in the second semester of their junior year and begin taking graduate courses in their senice year that would apply to both B.S. and M.S. degree. The combined degree program is 154 credits, 120 for the B.S. degree and 34 for the M.S. degree. Students complete the B.S. first, taking no more than 12 credits of graduate course work in their senior year, which will then be used to satisfy both degrees.			on-thesis) with program in the M.S. degree. . first, taking no		
	Curriculum Rec	quirements				
GPA Requirements: Departments must establish a minimum undergraduate GPA for students to be admitted to a combined program. Note: Please attach explanation. Students must maintain a GPS of 3.0 in upper-division List courses to graduate cour shared between combined programs.		to be shared: Up to twelve (12) credit hours of cress (5000 level or above course work) may be en the graduate and undergraduate degree for a gram. Note: Please attach explanation: emic justification for shared credits and catalog language the undergraduate course that will be replaced by graduate ses.				
	Name	Signature Email		Date		
Faculty Submitting Request	James Gammack-Clark			jgammack@fau.edu	02/16/2021	
Approved by Department Chair:		Date 02/16/2021				
College Dean:		31	3/24/2021			
College Curriculum Chair:		3	3-18-21			
UUPC Chair: Jarry Haky			3-29-21			
Undergraduate Studies Dean: Edward Pratt (Note: Forward approved form to UGPC@fau.edu)		3-20	3-29-21			
UGPC Chair: Butte		Aug 19, 2021				
UGC Chair: Rel Que		Au	Aug 19, 2021			
Graduate College Dean:		Aug 20, 2021				
UFS President:			2000	1 CHARLES		

Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.

Combined Bachelor of Science /Master of Science with Major in Geosciences: Geography Focus

This accelerated, five-year program leads to both a Bachelor of Science (B.S.) in Geosciences with Geography Focus and a Master of Science (M.S.) in Geosciences with a focus on Human Environment and Sustainable Science or Geographic Information Science. Students apply to the B.S./M.S. program in the second semester of their junior year and begin taking graduate courses in their senior year that would apply to both the B.S. and M.S. degree. The combined degree program is 154 credits, 120 for the undergraduate degree and 34 for the master's degree. Students complete the undergraduate degree first, taking no more than 12 credits of graduate coursework in their senior year, which will then be used to satisfy both 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 by the end of their first semester in their junior year.

Requirements and Eligibility

In addition to the University and Charles E. Schmidt College of Science requirements, students seeking a B.S./M.S. degree in Geosciences with Geography Focus must complete the following courses. The Geosciences core course (11 credits) are required for all students of the B.S. in Geosciences. Students selecting the Geography Focus then complete a Science core (7 credits), the Geography Focus core (24 credits), and Geosciences electives (30-31 credits) as noted below.

The graduate courses that would apply to both the B.S. and M.S. degree must be 5000 level or higher. Some courses, denoted with asterisks, have a 5000-level version that can be counted toward the graduate degree.

In addition to the Geosciences core courses noted above,

Geosciences Core Courses			
Introductory Statistics	STA 2023	3	
General Chemistry 1 and Lab	CHM 2045, 2045L	4	
Introduction to Mapping and GIS	GIS 3015C	3	
Geosciences Honors Colloquium	GEO 4920	1	
Core Total		11	

Science Core Courses			
Biological Principles and Lab	BSC 1010/1010L	4 or	
Biodiversity and Lab	BSC 1011/1011L	4	
Methods of Calculus	MAC 2233	3	
Science Core Total		7	

Geography Focus Core Courses			
World Geography	GEA 2000	3	
Introduction to Physical Geography	GEO 2200C	3	
Weather, Climate and Climate Change	MET 2010	3	
Quantitative Methods	GEO 4022	3	
Principles of GIS*	GIS 4043C	3	
Remote Sensing of the Environment*	GIS 4035C	3	
Human-Environmental Interactions in South Florida	GEA 42 75	3	
Biogeography*	GEO 4300	3	
Core Total		24	

Geosciences Electives (select 30-31 credits from the courses below)

The Blue Planet	ESC 2000	3
Physical Geology/Evolution of the Earth	GLY 2010C	4
History of the Earth and Life	GLY 2100	3
Climate Change: Myths, Realities and Solutions	EVR 3114	3
Environmental Issues in Atmospheric and Earth Science	ESC 3704	3
Coastal and Marine Science	GLY 3730	3
Applications in GIS*	GIS 4048C	3
Photogrammetry and Aerial Photograph Interpretation	GIS 4021C	3
Digital Image Analysis*	GIS 4037C	3
Web GIS	GIS 4054C	3
Programming in GIS*	GIS 4102C	3
Hazards, Climate and People	EVR 4112	3
Geospatial Databases	GIS 4118	3
Geovisualization and GIS*	GIS 4138C	3
Mobile GIS & Drone Technology*	GIS 4140C	3
Spatial Data Analysis	GEO 4167C	3
Water Resources	GEO 4280C	3
Tourism and Commercial Recreation	GEO 4542	3
Urban Geography	GEO 4602	3
Transportation and Spatial Organization	GEO 4700	3
Geomorphology	GLY 4700C	3
Hydrogeology	GLY 4822	3
Geosciences Electives Total	30-31	

Additional Graduate-Level Courses for the Master's Degree (Up to 12 credits can be taken as a senior. All courses must be taken at the 5000 or 6000 level)				
Human-Environmental Interactions	GEA 6277	3		
Research in the Geosciences	GEO 6118	3		
Geosciences Colloquium Series	GEO 6920	1		
Geosciences Focus - 12 credits Select 12 credits from one of the following areas of focus:				
Focus	Focus Course	s		
Human Environment and Sustainable Science	course prefixes	course prefixes EVR, GEA or GEO		
Geographic Information Science	course prefix G	course prefix GIS		
Electives - 15 credits				
Select five courses (total of 15 credits) from the following course prefixes: EVR, GEA, GEO, GLY, GIS and no more than 3 credits of independent study (GEO 6908 or GLY 6908). May select up to 6 credits from cognate areas approved by the student's advisor. Any 5000 or 6000 level course within the College of Science.				