

Cover Sheet: Request 10233

Medical Geography in Global Health

Info

Process	Specialization New/Modify/Close Ugrad
Status	Pending
Submitter	Blackburn,Jason K jkblackburn@ufl.edu
Created	4/29/2015 2:54:47 PM
Updated	12/7/2015 3:32:24 PM
Description	<p>Since 2010, the Geography Department at UF has expanded in scope and faculty, including the addition of several Medical Geography tenure-track positions. With support from CLAS, the Emerging Pathogens Institute, and the UF Preeminence Initiative, the number of Medical Geography faculty now includes four full-time tenure track positions with strengths in medical geography, disease ecology, quantitative methods, human-environment-interactions, and spatial modeling. This adds to our existing expertise from senior faculty in health and aging. As part of this growth in faculty, the course listing in this sub-field is growing to accommodate larger numbers of undergraduate and graduate majors. We propose to develop an undergraduate track in 'Medical Geography in Global Health' (MGGH) to meet students' needs by allowing them to concentrate formally in the subdiscipline of Medical Geography.</p> <p>The faculty expertise includes extensive international research and teaching programs concentrated in Global Health and emerging diseases. By their nature, the changing patterns (=emergence) of disease occurs at the intersections of environmental and biological processes. In the case of zoonoses, those diseases that can infect both humans and animals, this process is often linked with cultural traditions or land use patterns, resource access and equality, and development. 'Medical Geography in Global Health' (MGGH) also extends beyond infectious diseases to study the spatial patterns and processes related to health seeking, health care and access. Collectively, these topics naturally extend to include cultural and human geography, quantitative methods, climatology, development, and regional expertise. In this way, the expansion of medical geography extends to other skills within the department. Toward this, we propose to develop two tracks in 'Medical Geography in Global Health' (MGGH), allowing students to pursue either a BA or a BS in MGGH.</p> <p>Rationale</p> <p>The department currently offers students the option of a BA or BS in Geography, as well as a joint degree with Geology in Environmental Geosciences. These new proposed degree tracks in 'Medical Geography in Global Health' (MGGH) link undergraduate coursework to strengths in departmental faculty teaching and research. Thus, with the growth of the medical geography faculty, we propose to add these two new 'Medical Geography in Global Health' (MGGH) tracks to the undergraduate degree program. Students with a focus on quantitative skills, such as GIS, Remote Sensing or spatial modeling as they relate to medical geography will track into a BS course requirement list. Those students interested in the social, cultural or developmental aspects of health will track into the BA course requirement list. Ultimately, we aim to link the BS track to the UF Pre-health Advising program, allowing undergraduate students interested in premedical coursework to combine those interests with coursework and an undergraduate degree in Geography. Offering both course tracks will allow students broad opportunities within Geography and access to courses offered by a wide range of faculty members.</p>

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CLAS - Geography 011609000	Binford, Michael W.		4/29/2015
Deleted New_Form_sub1.pdf					4/29/2015
College	Recycled	CLAS - College of Liberal Arts and Sciences	Pharies, David A	The CCC has conditionally approved this item. It needs 1. SLOs. Oddly enough, the map of SLOs is present, but not the actual SLOs. 2. The map of SLOs is not quite complete, note the phrase "Plus XX additional pre-health credits".	9/23/2015
No document changes					
Department	Approved	CLAS - Geography 011609000	Binford, Michael W.		10/21/2015
No document changes					
College	Recycled	CLAS - College of Liberal Arts and Sciences	Pharies, David A	At request of department.	10/22/2015
No document changes					
Department	Approved	CLAS - Geography 011609000	Southworth, Jane		10/22/2015
No document changes					
College	Recycled	CLAS - College of Liberal Arts and Sciences	Pharies, David A	It appears that this has now been approved twice without the requisite changes being made. Please add SLOs and complete the map before approving again.	11/5/2015
No document changes					
Department	Approved	CLAS - Geography 011609000	Binford, Michael W.		11/6/2015
Deleted MGGH_SLO_rubric_v3.pdf					11/5/2015
Deleted MGGH_SLOs.pdf					11/5/2015
Added New_Form_sub1_rev1.pdf					11/5/2015
College	Approved	CLAS - College of Liberal Arts and Sciences	Pharies, David A		12/7/2015
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			12/7/2015
No document changes					
Office of the Registrar					

Step	Status	Group	User	Comment	Updated
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

This form may be used to propose a new specialization in an existing undergraduate major. To propose a new major or a new degree program, follow the procedures at <http://approval.ufl.edu>. Note that the terms *specialization* and *track* are synonymous for this process. Instructions for completing and submitting this form begin on the third page.

Existing Degree, Major and Specialization(s)

- | | |
|--|---------------------|
| 1. Degree Program Geography | 2. CIP Code 45.0701 |
| 3. Major Name Geography | 4. Major Code GEO |
| 5. Degree Type BA or BS | |
| 6. Existing Specializations Environmental Geosciences (joint BA with Geology Department) | |

Proposed Specialization

- | | |
|---|---------------------|
| 7. Name Medical Geography in Global Health (BS and BA option) | |
| 8. Code MGGH | 9. Credits 120 |
| 10. Students TBD | |
| 11. Effective Term Earliest Available | Effective Year 2015 |

Anticipated Delivery System

- | | | | |
|---|---|---------------------------------|--------------------------------------|
| 12. Percentage of credits available fully online: | <input checked="" type="checkbox"/> < 50% | <input type="checkbox"/> 50-99% | <input type="checkbox"/> 100% |
| 13. Percentage of credits available off-campus: | <input checked="" type="checkbox"/> < 25% | <input type="checkbox"/> 25-49% | <input type="checkbox"/> 50% or more |

14. Rationale for the Proposed Specialization

The department currently offers students the option of a BA or BS in Geography, as well as a joint degree with Geology in Environmental Geosciences. These new proposed degree tracks in ‘Medical Geography in Global Health’ (MGGH) link undergraduate coursework to strengths in departmental faculty teaching and research. Thus, with the growth of the medical geography faculty, we propose to add these two new ‘Medical Geography in Global Health’ (MGGH) tracks to the undergraduate degree program. Students with a focus on quantitative skills, such as GIS, Remote Sensing or spatial modeling as they relate to medical geography will track into a BS course requirement list. Those students interested in the social, cultural or developmental aspects of health will track into the BA course requirement list. Ultimately, we aim to link the BS track to the UF Pre-health Advising program, allowing undergraduate students interested in premedical coursework to combine those interests with coursework and an undergraduate degree in Geography. Offering both course tracks will allow students broad opportunities within Geography and access to courses offered by a wide range of faculty members.

15. Impacts on Other Programs

This request is to develop a new major that captures the breadth and expertise of new and existing faculty in Medical Geography and complements the college efforts to grow in Global Health. We do not expect this new major track to affect other departments.

- Prepare a document showing the current and proposed Undergraduate Catalog copy edited using the “track changes” feature in Word. *Note that this must include an **eight-semester plan** for each proposed specialization.*
- Prepare supporting documentation from other colleges the availability of courses that are required in the specialization and/or to provide evidence for support of the proposed major if there is clear or potential overlap or duplication of content.

Instructions

This form may be used to propose a new specialization in an existing undergraduate major. To propose a new major or a new degree program, or to modify or close (terminate) an existing specialization or track, follow the procedures at <http://approval.ufl.edu>. Note that *specialization* and *track* are synonymous for this process.

Existing Degree, Major and Specialization(s)

1. Enter the name of the Degree Program.
2. Enter the six digit Classification of Instructional Programs (CIP) code for the existing degree program. The code has the numerical format XX.XXXX. Contact the [Office of Institutional Planning and Research \(OIPR\)](#) to verify the CIP code for the existing degree program.
3. Enter the name of the major in which the new specialization will be offered. Example: Mathematics.
4. Enter the two or three letter code that uniquely identifies the major in the student records system. Example: the code for mathematics is MS.
5. Enter the degree type of the major in which the new specialization will be offered. Example: BS
6. Enter the complete name of each specialization that is currently offered in the major.

Proposed Specialization

7. Enter the name of the proposed specialization. Example: Mathematical Modeling.
8. Enter the proposed two or three letter specialization code that would uniquely identify the proposed specialization in the student information system. This code would be appended to the major code. Example: MOD.
9. The credit hours must equal the total credit hours that were approved for the existing major and degree program.
10. Enter the expected number of new students enrolled in this specialization in the first three years.
11. Enter the term (semester and year) that the proposed specialization(s) would start.

Delivery System

12. Indicate the percentage of course credits that will be available through full online courses.
13. Indicate the percentage of course credits that will be available away from the main Gainesville campus (including courses with onsite – off main campus meetings).

Rationale for the proposed specialization

14. Describe the rationale for offering this new specialization and having it on the transcript, how this program will enhance the quality of the existing major, how it relates to undergraduate programs at peer institutions. Also describe what distinguishes this new specialization within the existing major(s) in the degree program, the degree of its overlap with existing majors and specializations (both in the degree program and in other degree programs at the university), and a justification for any such overlap.

Impacts on other programs

15. Describe any potential impact on other programs or departments, including increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the existing program.

Medical Geography & Global Health MGGH Degree Descriptions

The **Bachelor of Arts in medical geography and global health** requires 41 credits of coursework. This specialization is intended for students interested in social and cultural aspects of medical geography and global health and disease issues. The degree focuses on human impacts, cultural and social aspects of health and disease, and public health planning and management.

Semester	B.A. Degree*
Year 1 Fall	HUM 2305 (3) GEO2200 (3) GEO2200L (1) STA2023 (3) COMP (C) (3) TOTAL 13
Year 1 Spring	GEO 2410 or GEO 2420 or 2500 (3) (GE-S N or D) GEN ED HUM (3) Comp GE-C (3) SOC (S) (3) MAC/MGF XXXXX (3-4) TOTAL 15-16
Year 2 Fall	COMP (C) (3) PHY SCI (P) (3) LANG XXXX (5) GEO 3452 (3) TOTAL 14
Year 2 Spring	GEA XXXX (3) (SN) SOC (S) (3) BIO (B) (3) LANG XXXX (5) TOTAL 14
Year 3 Fall	GEO3162C (4) GIS3043 (4) MED GEO ELECTIVE (3) BIO (B) (3) Elective (3) TOTAL 17
Year 3 Spring	GIS3420C (3) MED GEO ELECTIVE (3)

	GEN ED HUM (3) NAT SCI (3) ELECTIVE (3)	TOTAL 15
Year 4 Fall	MEDGEO or GIS (3-4) MEDGEO (3) Electives (9-10)	TOTAL 16-17
Year 4 Spring	GEO 4930 (1) MEDGEO ELECTIVE (3) Electives (12)	TOTAL 16

* Electives to reach the 120-credit minimum will vary depending on whether students select minimum or maximum credit course options.

The **Bachelor of Science in medical geography and global health** requires 74 credits of coursework, combining quantitative medical geography coursework with 39 credits of coursework in physics, chemistry, and biology. This specialization is best suited for someone who wishes to pursue a career in public or animal health or disease management or graduate work in medical geography, public health or related natural sciences, including ecology, biology, or epidemiology/public health. This degree track also meets the requires of Pre-Health.

Semester	B.S. Degree (Pre-Med Health)	B.S. Degree (Pre-Vet Health)
Year 1 Fall	HUM 2305 (GE-H) (3) English (3) MAC 2311 (4) CHM 2045 (3) CHM 2045L (1)	HUM 2305 (3) MAC 2311 (4) CHM 2045 (3) CHM 2045L (1) English (3)
	TOTAL 14	TOTAL 14
Year 1 Spring	GEO2200 (3) GEO2200L (1) STA 2023 (3) CHM 2046 (3)	GEO2200 (3) GEO2200L (1) STA 2023 (3) CHM 2046 (3)

	CHM 2046L (1) English (3)	CHM 2046L (1) English (3)	
	TOTAL 14-15		TOTAL 14
Year 2 Fall	GEO 2410(GE-SD), 2420, 2500 (3) CHM2210 (3) BSC 2010 (3) BSC 2010L (1) SYG 2000 (3)	GEO 2410(GE SD), 2420, 2500 (3) CHM2210 (3) BSC 2010 (3) BSC 2010L (1) SPC2608 (3)	TOTAL 13
	TOTAL 13		
Year 2 Spring	GEA XXXX (3) (SN) CHM 2211 (3) CHM 2211L (2) BSC 2011 (3) BSC 2011L (1) PSY 2012 (GE-S) (3)	GEA XXXX (3) SN CHM 2211 (3) CHM 2211L (2) BSC 2011 (3) BSC 2011L (1) GEN ED HUM (3)	TOTAL 15
	TOTAL 15		TOTAL 15
Year 3 Fall	GEO 3452 (3) GEO3162C (4) PHY 2053 (3) PHY 2053L (1) BCH 4024 or CHM3218 (4)	GEO 3452 (3) GEO3162C (4) PHY 2053 (3) PHY 2053L (1) ANS3006C (4)	TOTAL 15
	TOTAL 15		TOTAL 15
Year 3 Spring	GIS3043 (4) GIS3420C/MEDGEO (3) PHY 2054 (3) PHY 2054L (1) Pre-Med Course (3)	GIS3043 (4) GIS3420C/MEDGEO (3) PHY 2054 (3) PHY 2054L (1) ANS3404C(3)	TOTAL 14
	TOTAL 14		TOTAL 14
Year 4 Fall	MEDGEO or GIS (3-4) MEDGEO (3) PRE-MED SCIENCE (3) LANG (5) Electives (3)	MEDGEO or GIS (3-4) MEDGEO (3) MCB3020/L (4) or MCB3023/L (4) LANG (5) Electives (2)	TOTAL 17-18
	TOTAL 17-18		
Year 4 Spring	GEO4930 (1) MEDGEO ELECTIVE (3) GEN ED HUM (3) Electives (6) LANG (5)	GEO 4930 (1) MEDGEO ELECTIVE (3) Genetics (PCB3063, AGR3303, or ANS338 (4) GEN ED HUM (3) LANG (5)	

	Electives (2)	
	TOTAL 18	TOTAL 18

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Medical Geography in Global Health Undergraduate Degree Track

Student Learning Objectives

1. Identify and describe the physical and human characteristics of Earth and its regions, the essentials of human-environment interactions, and the techniques of geographic science as they applied to medical geography and global health.
2. Analyze geographic information and apply interpretation of data toward problem solving or modeling related to spatial patterns of health.
3. Interpret and effectively communicate information spatially, graphically and/or with statistics.

Courses	Content	Critical Thinking	Communication
	SLO 1	SLO 2	SLO 3
GEA 2000-4000 level Regional Geography	R		
GEO 2000 level Human Geography	I		
GEO 2200	I		
GEO 2200L	R		
GEO 3162C	I	I	R
GEO 4930	R, A	A	A
GIS 3043 or GIS 4001C	R	R	R
STA 2023			I
B.A. 12+ credits GEO/GIS in medical geography and global health coursework in the department	R	R	R
B.S. Only: 12+ credits GEO/GIS in medical geography and global health coursework in the department plus 30+ additional pre-health credits outside the department with CHM, BIO, and PHY prefixes (or addition pre-health requirements);	R	R	R