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FEB 28 2013

CHANGE UNDERGRADUATE PROGRAM FORM

OFFICE OF THE SENATE COUNCIL

1. General Information

College: A&S Department: Geography

Current Major Name: Geography Proposed Major Name: _____

Current Degree Title: BA/BS Proposed Degree Title: _____

Formal Option(s): none Proposed Formal Option(s): _____

Specialty Field w/in Formal Option: none Proposed Specialty Field w/in Formal Options: _____

Date of Contact with Associate Provost for Academic Administration¹: 14 Feb 2012

Bulletin (yr & pgs): 2011-12, 130 CIP Code¹: 45.0701 Today's Date: 15 Feb 2012

Accrediting Agency (if applicable): none

Requested Effective Date: Semester following approval. OR Specific Date²: _____

Dept. Contact Person: tad mutersbaugh Phone: 7-1316 Email: tmute2@uky.edu

2. General Education Curriculum for this Program:

The new General Education curriculum is comprised of the equivalent of 30 credit hours of course work. There are, however, some courses that exceed 3 credits & this would result in more than 30 credits in some majors.

- There is no foreign language requirement for the new Gen Ed curriculum.
- There is no General Education Electives requirement.

Please list the courses/credit hours currently used to fulfill the University Studies/General Education curriculum: courses from recommended list

Please identify below the suggested courses/credit hours to fulfill the General Education curriculum.

General Education Area	Course	Credit Hrs
I. Intellectual Inquiry (one course in each area)		
Arts and Creativity	<u>approved list</u>	<u>3</u>
Humanities	<u>approved list</u>	<u>3</u>
Social Sciences	<u>approved list</u>	<u>3</u>
Natural/Physical/Mathematical	<u>approved list</u>	<u>3</u>
II. Composition and Communication		
Composition and Communication I	<u>CIS or WRD 110</u>	<u>3</u>
Composition and Communication II	<u>CIS or WRD 111</u>	<u>3</u>
III. Quantitative Reasoning (one course in each area)		

¹ Prior to filling out this form, you MUST contact the Associate Provost for Academic Administration (APAA). If you do not know the CIP code, the (APAA) can provide you with that during the contact.

² Program changes are typically made effective for the semester following approval. No program will be made effective until all approvals are received.

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Quantitative Foundations ³	<i>approved list</i>	<u>3</u>
Statistical Inferential Reasoning	<i>approved list</i>	<u>3</u>
IV. Citizenship (one course in each area)		
Community, Culture and Citizenship in the USA	<i>approved list</i>	<u>3</u>
Global Dynamics	<i>approved list</i>	<u>3</u>
Total General Education Hours		<u>30</u>

3. Explain whether the proposed changes to the program (as described in sections 4 to 12) involve courses offered by another department/program. Routing Signature Log must include approval by faculty of additional department(s).

no

4. Explain how satisfaction of the University Graduation Writing Requirement will be changed.

Current	Proposed
<input type="checkbox"/> Standard University course offering. List: _____	<input type="checkbox"/> Standard University course offering. List: _____
<input type="checkbox"/> Specific course – list: _____	<input checked="" type="checkbox"/> Specific course) – list: GEO 499

5. List any changes to college-level requirements that must be satisfied.

Current	Proposed
<input type="checkbox"/> Standard college requirement. List: _____	<input type="checkbox"/> Standard college requirement. List: _____
<input type="checkbox"/> Specific required course – list: _____	<input type="checkbox"/> Specific course – list: _____

6. List pre-major or pre-professional course requirements that will change, including credit hours.

Current	Proposed
GEO 130, GEO 172	None

7. List the major's course requirements that will change, including credit hours.

Current	Proposed
GEO 300 - 3; GEO 305 - 3; GEO 310 - 3	Geo 309, 3; GEO 406, 3; Methods, 3 (choose from GEO 305, 310, 311, 409)

8. Does the pgm require a minor AND does the proposed change affect the required minor? N/A Yes No
If "Yes," indicate current courses and proposed changes below.

Current	Proposed
_____	_____

9. Does the proposed change affect any option(s)?

N/A Yes No

If "Yes," indicate current courses and proposed changes below, including credit hours, and also specialties and subspecialties, if any.

Current	Proposed
_____	_____

³ Note that MA 109 is NOT approved as a Quantitative Foundations course. Students in a major requiring calculus will use a calculus course (MA 113, 123, 137 or 138) while students not requiring calculus should take MA 111, PHI 120 or another approved course.

<p align="center">Current GEOGRAPHY MAJOR</p>	<p align="center">PROPOSED GEOGRAPHY MAJOR</p>
<p>Previous Program Learning Goals</p> <ol style="list-style-type: none"> 1. Identify the geographic components and principles of a problem 2. Design and develop a research methodology framework 3. Within the context of relevant literature, identify and implement relevant measures for information gathering and assessment 4. Present findings in an appropriate and effective manner. 	<p>Revised Geography Student Outcomes</p> <ol style="list-style-type: none"> 1. Students will identify the geographic components and principles of a problem using written text, speech, maps, graphics, equations, and other devices to identify and describe spatial characteristics, patterns and processes at a variety of scales in physical, cultural, and social, and economic environments. 2. Students will be able to design and develop a relevant literature review and geographical research methodology framework appropriate to the question at hand. 3. Students will demonstrate capabilities and technical skills (including, but not limited to, cartography and GIS); apply scientific research methods (in both natural and social sciences); observe, collect, and process geographic data; perform analysis based on the knowledge, theories and principles in geography; and draw quantitative and qualitative conclusions. 4. Students will understand the structures and conventions of research papers and technical reports in the field, and will be able to critically evaluate empirical evidence, theoretical frameworks and arguments within geographic literature. 5. Students will be able to communicate their understanding and analysis of findings in an appropriate and effective manner, and demonstrate competency in writing and oral presentations.

Principal reasons for the proposed changes:

1. We are looking to make our major more appealing and flexible, particularly for potential double-majors and given that most of our majors only think of majoring in geography after they arrive in college and take one of our introductory offerings. For this reason we have reduced the overall number of credit hours to obtain a major in geography.
2. Geography is shifting away from traditional mapping to add a major emphasis in geo-spatial technologies. Our program changes are in concert with this national trend.
3. We are adding GEOGRAPHIC FIELD STUDIES to our core requirements in order to teach students how to integrate research methods in geographic field contexts -- and also to create a unique experience that reflects the geographic emphasis on place and space.
4. We are increasing the diversity of our methods offerings to ensure that students are able to gain training in the array of methods currently important to geographic scholarship.

<p>MAJOR REQUIREMENTS:</p> <table border="0"> <tr><td>Premajor hours</td><td>6</td></tr> <tr><td>Major core hours</td><td>15</td></tr> <tr><td>Methods requirements</td><td>0</td></tr> <tr><td>Tracks</td><td>12</td></tr> <tr><td>Interdisciplinary req</td><td>15</td></tr> <tr><td><i>Breadth requirements</i></td><td>6</td></tr> <tr><td>Total</td><td>48</td></tr> </table> <p>PREMAJOR REQUIREMENTS: GEO 130 Earth's physical environment GEO 172 Intro to Human Geography</p> <p>Major Core Requirements GEO 200 Concepts and Methods in Geography GEO 300 Geographic Research GEO 305 Elements of Cartography GEO 310 Quantitative Techniques in Geography GEO 499 Senior Research Seminar</p> <p>Methods requirements No Methods requirement</p>	Premajor hours	6	Major core hours	15	Methods requirements	0	Tracks	12	Interdisciplinary req	15	<i>Breadth requirements</i>	6	Total	48	<p>MAJOR REQUIREMENTS:</p> <table border="0"> <tr><td>Major core hours</td><td>18</td></tr> <tr><td>Methods requirements</td><td>3</td></tr> <tr><td>Tracks</td><td>18</td></tr> <tr><td>Total</td><td>39</td></tr> </table> <p>Major Core Requirements GEO 130 Earth's physical environment GEO 172 Intro to Human Geography GEO 200 Orientation to Geography (minor course change) GEO 406 Integrated Field Studies in Geography (minor course change) GEO 309 Introduction to GIS GEO 499 Senior Research Seminar</p> <p>Methods requirements Choose one methods course from the following options: GEO 305 Cartography; GEO 310 Quantitative Techniques; GEO 311 Qualitative Methods; GEO 409 Advanced GIS</p>	Major core hours	18	Methods requirements	3	Tracks	18	Total	39
Premajor hours	6																						
Major core hours	15																						
Methods requirements	0																						
Tracks	12																						
Interdisciplinary req	15																						
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Total	48																						
Major core hours	18																						
Methods requirements	3																						
Tracks	18																						
Total	39																						
<p>Writing Requirement: GEO 300</p>	<p>Writing Requirement: GEO 499</p>																						
<p>Breadth Requirement: Choose one regional geography course and one thematic geography course at the 300+ level.</p>	<p>Breadth Requirement: None</p>																						
<p>Geography Concentration Tracks 12 Choose at least 12 hours of additional geography courses (200 level or higher) to include no more than six hours of GEO 560 (Independent Work in Geography) and GEO 399 (Internship in Geography). The following three tracks (Earth Environmental Systems, Human Geography, and Geographic Information Techniques) represent major areas within Geography and are provided as guidelines. Most students will find it useful to concentrate their 12 hours within one of the three tracks but this is not a requirement. Consult with your advisor in making these selections.</p> <p>Interdisciplinary requirement Choose 15 hours from any other department at the 300+ level. 200+ courses used to satisfy College Requirements can be counted here.</p>	<p>Geography TRACKS Choose at least 18 hours of additional geography courses to include: no more than three hours of 100-level courses; no more than six hours of GEO 560 and GEO 399; a minimum of 3 hours of 400+ level courses (not including GEO 409, 406, or 499). The following focus areas represent specializations within Geography and are provided as guidelines. Most students will find it useful to concentrate their 18 hours within these focus areas, but this is not a requirement. On completion of 15 hours within any focus area, the Geography Department will award a certificate of completion of studies in the area of specialization. Consult with your advisor in making selections of courses.</p>																						

EXISTING TRACKS

Track 1: Earth Environmental Systems (Physical Geography) This concentration emphasizes the earth's physical environment, including soils and landscapes; fluvial and other hydrologic systems; weather and climate; and vegetation and animal life. Emphasis is on (a) the pattern of spatial variation these regimes exhibit; (b) the physical processes that underpin their historical and spatial development; and (c) the interactions between these regimes and human activity. Topical areas reflecting physical-human interactions include identification and analysis of pollution, mitigation of natural hazards, and the outcomes of environmental management strategies.

The Department strongly recommends that students in the Earth Environmental Systems Concentration pursue a Bachelor of Science degree.

GEO 230 Weather and Climate
..... 3

^GEO 235 Environmental Management and Policy 3

GEO 351 Physical Landscapes
..... 3

GEO 451G Fluvial Forms and Processes
..... 3

^Or other Physical Geography, GIS, Remote Sensing, Computer Cartography courses.

Track 2: Human Geography (HG)

Human Geography focuses on the identification, description, and analysis of: (a) human spatial behavior and cognition; (b) social, economic, and political processes as they are manifest locally and globally; and (c) the cultural impress of human activity on the landscape. Within these areas, students can focus on the socio-psychological aspects of space and place, including cultural differences in ways of knowing the world. They will learn about the processes that produce local-to-global distinctiveness in key problem areas including: poverty, injustice, and hunger; illness, disability, and disease; patriarchy, racism, and

NEW TRACKS

1. ENVIRONMENTAL GEOGRAPHY OPTION

Suggested Courses:

GEO 135 Global Climate Change
GEO 162 Introduction to Global Environmental Issues
GEO 231 Environment and Development
GEO 235 Environmental Management and Policy
GEO 261 Global Dynamics of Health and Disease
GEO 321 Land, people and development in Appalachia
GEO 331 Global Environmental Change
GEO 334 Environment, Society and Economy of Japan
GEO 431 Political Ecology
GEO 530 Biogeography and conservation
GEO 531 Landscape Ecology

2. PHYSICAL GEOGRAPHY OPTION

Suggested Courses:

GEO 135 Global Climate Change
GEO 130 Earth's Physical Landscape
GEO 230 Weather and Climate
GEO 235 Environmental Management and Policy
GEO 351 Physical Landscapes
GEO 406G Field Studies in Geography
GEO 451G Fluvial forms and processes
GEO 530 Biogeography and conservation
GEO 531 Landscape Ecology

3. URBAN GEOGRAPHY AND PLANNING OPTION

Suggested Courses:

GEO220 US Cities
GEO285 Introduction to Planning
GEO485G Urban Planning and Sustainability
GEO235 Environmental Management and Planning
GEO309 Introduction to GIS
GEO310 Quantitative Techniques
GEO 415 Map Interpretation
GEO422 Urban Geography
GEO455 Economic Geography
GEO490G American Landscapes
GEO544 Human Population Dynamics
GEO545 Transportation Geography

4. GIS FOCUS

Suggested Courses:

homophobia; and unequal access to natural resources, education, health, and safety. Students will also find an opportunity to learn how human practices and broader processes affect both our natural and built environments. Finally, students will learn practical tools to contribute to better world through their research, or professional participation in civil society, the private sector, or government agencies. The HG Track permits students to specialize in a particular region of interest, including East, South, Southwest (Middle East), and Southeast Asia, Europe, the Caribbean, and the United States, especially Appalachia and the South. With the advice and consent of a faculty advisor, select from courses offered within the Department and other Departments, corresponding to a particular focus in HG.

GEO 240 Geography and Gender	3
GEO 256 Behavior in Space and Time	3
*GEO 260 Geographies of Development in the Global South	3
GEO 285 Introduction to Planning	3
GEO 409G Geographic Information Systems and Science: Fundamentals	3
GEO 422 Urban Geography	3
GEO 442G Political Geography	3
GEO 455 Economic Geography	3
GEO 465 Special Topics in Geography (Subtitle required)	3
GEO 475G Medical Geography	3
GEO 490G American Landscapes	3
GEO 544 Human Population Dynamics	3
GEO 545 Transportation Geography	3

- GEO 109 Digital mapping
- GEO 164 iWorlds
- GEO 309 Introduction to GIS
- GEO 409 Advanced GIS
- GEO 509 Workshop in geospatial technologies
- GEO 419 Introduction to remote sensing
- GEO 305 Cartography
- GEO 506 Computer cartography
- GEO 505 Practicum in cartography
- GEO 310 Quantitative methods
- GEO 415 Map interpretation
- GEO 365 Geospatial analysis

5. HUMAN GEOGRAPHY OPTION

Suggested Courses:

- GEO 161 Global Inequalities
- GEO 240 Geography and Gender
- GEO 260 Geographies of Development in the Global South
- GEO 422 Urban Geography
- GEO 442G Political Geography
- GEO 455 Economic Geography
- GEO 475G Medical Geography
- GEO 490G American Landscapes
- GEO 544 Human Population Dynamics
- GEO 545 Transportation Geography
- GEO 546 Tourism and Recreation Geography

6. INTERNATIONAL STUDIES OPTION

Suggested courses:

- GEO 163 Global Conflicts
- GEO 221 Immigrant America
- GEO 222 Cities of the World
- GEO 255 Geography of the Global Economy
- GEO 326 Geography of Europe
- GEO 328 Geography of the Middle East and North Africa
- GEO 329 Geography of the former Soviet Union
- GEO 331 Global Environmental Change
- GEO 334 Environment, Society and Economy of Japan
- GEO 546 Tourism and Recreation Geography

7. DESIGN YOUR OWN GEOGRAPHY MAJOR OPTION

Any Geography courses fulfilling the requirements for the major.

<p>GEO 546 Tourism and Recreation Geography 3</p> <p>GEO 547 Geography of Information and Communications 3</p> <p>GEO 550 Sustainable Resource Development and Environmental Management 3</p> <p>GEO 585 Aging and Environment 3</p> <p><i>*Course used towards completion of a UK Core Requirement.</i></p> <p>Track 3: Geographic Information Techniques (GIT)</p> <p>The Geographic Information Techniques Concentration is concerned with all aspects of geographical information/data, including identification of data sources, collection, storage/ retrieval, manipulation, analysis, and visualization. The GIT Concentration encompasses geographical information sci- ence (GIS), cartography, remote sensing, and spatial analy- sis.</p> <p>GEO 309 Digital Geographic Data: Sources, Characteristics, Problems, and Uses 3</p> <p>GEO 399 Internship in Geography 3</p> <p>GEO 409G Geographic Information Systems and Science: Fundamentals 3</p> <p>GEO 415 Map Interpretation 3</p> <p>GEO 505 Practicum in Cartography 3</p> <p>GEO 506 Introduction to Computer Cartography 3</p> <p>GEO 508 Geographic Interpretation of Aerial Photography 3</p>	
<p>From Outside the Major Department</p> <p>Choose 15 hours outside Geography at the 300+ level. 200+ level courses used to satisfy College Requirements can also be counted here 15</p>	<p>From Outside the Major Department</p> <p>None Required</p>

Proposed Geography Course Sequence – BA Degree

Total Credit Hours Required for Degree = 120

Year One Semester One		Year One Semester Two	
GEO 130: Physical Geography Meets AS Natural Science REQ Social Sciences Humanities Language I AS Humanities Requirement	(3 credits) (3 credits) (3 credits) (4 credits) (3 credits) 16 credits	GEO 172: Human Geography Natural/ Physical/ Mathematical Arts and Creativity Basic Skills Mathematics Requirements Language II	(3 credits) (3 credits) (3 credits) (3 credits) (4 credits) 16 credits
Year Two Semester One		Year Two Semester Two	
Comp and Comm I (CIS or WRD I/D) Quantitative Foundations Community, Culture and Citizen: USA Elective Language III	(3 credits) (3 credits) (3 credits) (3 credits) (3 credits) 15 credits	Comp and Comm II (CIS or WRD II) Statistical Inferential Reasoning Global Dynamics Language IV Elective	(3 credits) (3 credits) (3 credits) (3 credits) (3 credits) 15 credits
Year Three Semester One		Year Three Semester Two	
Social Science Requirement Elective GEO 200: Professionalization GEO Methods requirement Elective	(3 credits) (3 credits) (3 credits) (3 credits) (3 credits) 15 credits	GEO 406 or 300: Research Practices Meets AS FIELD/LAB SCI REQ GEO 309: Introduction to GIS GEO Track Requirement GEO Track Requirement GEO Track Requirement	(3 credits) (3 credits) (3 credits) (3 credits) (3 credits) 15 credits
Year Four Semester One		Year Four Semester Two	
GEO Track Requirement GEO Track Requirement GEO Track Requirement Elective Elective	(3 credits) (3 credits) (3 credits) (3 credits) (2 credits) 14 credits	: GEO 499 Also satisfies Graduation (2 nd Tier) Writing Req Elective Elective Elective Elective	(3 credits) (3 credits) (3 credits) (3 credits) (2 credits) 14 credits

Blue-30 hrs UKcore Requirements Red- 6 hrs UK Reqs Green – 21 hrs A&S Reqs Black- 39 hrs Geography Requirements Pink-24 hrs Electives

Proposed Geography Course Sequence BS in GEOGRAPHY Total Credit Hours Required for Degree = 120 : NOTE:
Student must take 6 GEO courses that meet BS criteria (in addition to listed curriculum)

Year One Semester One		Year One Semester Two	
GEO 130: Physical Geography Meets AS Natural Science REQ Social Sciences Humanities Language I AS Humanities Requirement	(3 credits) (3 credits) (3 credits) (4 credits) (3 credits) 16 credits	GEO 172: Human Geography Natural/ Physical/ Mathematical Arts and Creativity Basic Skills Mathematics REquirements Language II	(3 credits) (3 credits) (3 credits) (3 credits) (4 credits) 16 credits
Year Two Semester One		Year Two Semester Two	
Comp and Comm I (CIS or WRD IIO) Quantitative Foundations Comm, Culture and Citizen: USA Elective: BS requirement Language III	(3 credits) (3 credits) (3 credits) (3 credits) (3 credits) 15 credits	Comp and Comm II (CIS or WRD III) Statistical Inferential Reasoning Global Dynamics Language IV Elective: BS requirement	(3 credits) (3 credits) (3 credits) (3 credits) (3 credits) 15 credits
Year Three Semester One		Year Three Semester Two	
Social Science Requirement Elective: BS requirement GEO 200: Professionalization GEO Methods requirement Elective: BS requirement	(3 credits) (3 credits) (3 credits) (3 credits) (3 credits) 15 credits	GEO 406: Research Practices Meets AS FIELD/LAB SCI REQ GEO 309: Introduction to GIS GEO Track Requirement GEO Track Requirement GEO Track Requirement	(3 credits) (3 credits) (3 credits) (3 credits) (3 credits) 15 credits
Year Four Semester One		Year Four Semester Two	
GEO Track Requirement GEO Track Requirement GEO Track Requirement Elective: BS requirement Elective: BS requirement	(3 credits) (3 credits) (3 credits) (3 credits) (2 credits) 14 credits	: GEO 499 (2 nd Tier) Writing Req Elective: BS requirement Elective: BS requirement Elective: BS requirement Elective: BS requirement	(3 credits) (3 credits) (3 credits) (3 credits) (2 credits) 14 credits

Blue-30 hrs UKcore Requirements Red-6 hrs UK Reqs Green – 21 hrs A&S Reqs Black-39 hrs Geography Requirements Pink-24 hrs Electives Orange—BS requirements

RESPONSE TO QUESTIONS FROM THE UNDERGRADUATE COMMITTEE
(Thanks to Karen Badger!):

1. Current pre-major or pre-professional course requirements- GEO 130 and GEO 172 listed for current- a ? is listed for proposed...should this be a N/A according to 13a? It looks like this is being eliminated?

Yes, should be n/a: Our understanding is that A&S is discouraging 'pre-major' requirements, so we have folded GEO 130 and GEO 172 into the major itself (they are both still required, however).

2. A comment regarding the change from program learning goals to student learning outcomes-
#3 and #4- could you add "students will demonstrate" somehow to these outcomes? This will help to make these measureable to help with assessment later on.

I have added this in 3 below; 4 already includes the language -- 'be able to critically evaluate', this seems 'assessible' (if not accessible...!)

3. Students will demonstrate capabilities and technical skills (including, but not limited to, cartography and GIS); apply scientific research methods (in both natural and social sciences); observe, collect, and process geographic data; perform analysis based on the knowledge, theories and principles in geography; and draw quantitative and qualitative conclusions.

4. Students will understand the structure and conventions of research papers and technical reports in the field, and will be able to critically evaluate empirical evidence, theoretical frameworks and arguments within geographic literature.

3. Are there any parameters for the 51 credits of electives? (I think I understand correctly that the 18 track hours are part of the major courses?)

electives: we don't have parameters. As i mentioned in a previous email, the major is designed to be—really has to be given that HS students have mostly not heard of geography (as a discipline) before arriving at the university) accessible to students who come late to geography or want to double-major.

4. Given that the GWR has been reinstated, would these 3 hours be counted as part of the elective requirement?

GWR: GEO 499 covers the GWR for our department: I have added this to the updated attachment. Please be so kind as to correct this oversight on the application...