



Program Approval Form

For approval of new programs and deletions or modifications to an existing program.

Action Requested:

- Create New (SCHEV approval required except for minors)
- Inactivate Existing
- Modify Existing (check all that apply)
 - Title (SCHEV approval required except for minors)
 - Concentration** (Choose one): Add Delete Modify
 - Degree Requirements
 - Admission Standards/ Application Requirements
 - Other Changes: _____

Type (Check one):

- B.A. B.S. Minor
- M.A. M.S. M.Ed.
- Ph.D.
- Undergraduate Certificate*
- Graduate Certificate*
- Other:

College/School:
Department:

Submitted by:
Ext:
Email:

Effective Term: Fall
Please note: For students to be admitted to a new degree, minor, certificate or concentration, the program must be fully approved, entered into Banner, and published in the University Catalog.

Justification: (attach separate document if necessary)

Adding "Mason Core and Elective Credits" and "Mason Core" sections in order to have the catalog listing clearly show how the degree equals 120 credits and how the Mason Core requirements can be fulfilled.

Program Title: (Required)

Title must identify subject matter. Do not include name of college/school/dept.

Concentration(s):

Admissions Standards / Application Requirements:

(Required only if different from those listed in the University Catalog)

Degree Requirements:

Consult University Catalog for models, attach separate document if necessary using track changes for modifications

Courses offered via distance: (if applicable)

TOTAL CREDITS REQUIRED:

Existing	New/Modified
Geography, BS	
[Mason Core and Electives section not included]	See the bottom portion of the degree listing attached.

*For Certificates Only: Indicate whether students are able to pursue on a Full-time basis Part-time basis

Approval Signatures

Department	Date	College/School	Date	Provost's Office	Date
<i>Required for Minors and Interdisciplinary Programs</i>					

If this program may impact another unit or is in collaboration with another unit at Mason, the originating department must circulate this proposal for review by those units and obtain the necessary signatures prior to submission. Failure to do so will delay action on this proposal.

Unit Name	Unit Approval Name	Unit Approver's Signature	Date

For Graduate Programs Only

Graduate Council Member	Provost Office	Graduate Council Approval Date
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For Registrar Office's Use Only: Received _____ Banner _____ Catalog _____ revised 6/7/12

Program Proposal Submitted to the College of Science Curriculum Committee (COSCC)

The form above is processed by the Office of the University Registrar. This second page is for the COSCC's reference.
Please complete the applicable portions of this page to clearly communicate what the form above is requesting.

FOR ALL PROGRAMS (required)

Program Title: Geography, BS

Date of Departmental Approval: 3/11/2015

FOR INACTIVATED PROGRAMS (required if inactivating a program)

- Reason for Inactivation:

FOR MODIFIED PROGRAMS (required if modifying a program)

- Summary of the Modification: Adding "Mason Core and Elective Credits" and "Mason Core" sections.
- Text before Modification (title, degree requirements, etc.): Sections weren't included.
- Text after Modification (title, degree requirements, etc.): See attached.
- Reason for the Modification: In order to have the catalog listing clearly show how the degree equals 120 credits and how the Mason Core requirements can be fulfilled.

FOR NEW PROGRAMS (required if creating a new program)

- Reason for the New Program:
- Relationship to Existing Programs:
- Relationship to Existing Courses:
- Semester of Initial Offering:
- Insert Tentative SCHEV Proposal Below

Geography, BS

Banner Code: SC-BS-GEOG

This program of study is offered by the [Department of Geography and Geoinformation Science](#) in the [College of Science](#).

The [Geography, BS](#) is designed to offer students the opportunity to study the integrated social and environmental processes that continuously shape and reshape the world we live in. This major provides students with broad training across the core subdisciplines of geography (human, physical, and GIScience), emphasizing application and technique-driven coursework, in addition to a rigorous science and mathematics curriculum. Students will find numerous opportunities for employment in both the private and public sectors, as well as in academia, as geographers are well suited to address important local, regional, and global challenges in today's world, given their interdisciplinary approach and uniquely spatial perspective.

The [Department of Geography and Geoinformation Science](#) fosters a supportive, active learning environment in which students are encouraged to work closely with both faculty and peers. The curriculum in this major provides students with the analytical, technical, and practical training that prepares them to be successful in an ever-evolving job market. For students who wish to pursue their interest in geography via a more flexible degree program, the department also offers a [Geography, BA](#).

The [Geography, BS](#) consists of three components: (1) 22-23 credits of core courses; (2) 27 credits of technique, systematic, regional, and elective courses; and (3) 11-12 credits of mathematics, computer programming, and statistics courses.

Students must fulfill all [requirements for bachelor's degrees](#) including the [Mason Core](#).

[GGS 415](#) meets the writing intensive requirement for this major.

Degree Requirements

Geography (49-50 credits)

Candidates for the [Geography, BS](#) degree must complete the following Core, Breadth and Experience, and Geography Elective courses with a minimum GPA of 2.00:

Core Courses (22-23 credits)

- [GGS 102 - Physical Geography](#) Credits: 3 **or** [GGS 121 - Dynamic Atmosphere and Hydrosphere](#) Credits: 4 ([Mason Core: Natural Science](#) courses)
- [GGS 103 - Human Geography](#) Credits: 3
- [GGS 110 - Maps and Mapping](#) Credits: 3
- [GGS 300 - Quantitative Methods for Geographical Analysis](#) Credits: 3
- [GGS 310 - Introduction to Digital Cartography](#) Credits: 4
- [GGS 311 - Introduction to Geographic Information Systems](#) Credits: 3

- [GGG 415 - Seminar in Geography](#) Credits: 3 (fulfills writing intensive requirement)

Breadth and Experience Courses (18 credits)

Advanced Technique Courses

- [GGG 412 - Air Photography Interpretation](#) Credits: 3

And three of the following:

- [GGG 308 - Field Mapping Techniques](#) Credits: 3
- [GGG 354 - Data Analysis and Global Change Detection Techniques](#) Credits: 3
- [GGG 410 - Introduction to Hyperspectral Imaging](#) Credits: 3
- [GGG 411 - Advanced Digital Cartography](#) Credits: 3
- [GGG 416 - Satellite Image Analysis](#) Credits: 3
- [GGG 463 - Applied Geographic Information Systems](#) Credits: 3
- [GGG 470 - Special Topics in Geographic Techniques](#) Credits: 3

Systematic Courses (one course from the following must be taken):

- [GGG 301 - Political Geography](#) Credits: 3
- [GGG 302 - Global Environmental Hazards](#) Credits: 3
- [GGG 303 - Conservation of Resources and Environment](#) Credits: 3
- [GGG 304 - Populations Dimensions of Global Change](#) Credits: 3
- [GGG 305 - Economic Geography](#) Credits: 3
- [GGG 306 - Urban Geography](#) Credits: 3
- [GGG 307 - Sustainable Development](#) Credits: 3
- [GGG 309 - Meteorology and Climate](#) Credits: 3
- [GGG 312 - Physical Climatology](#) Credits: 3
- [GGG 314 - Severe and Extreme Weather](#) Credits: 3
- [GGG 319 - Air Pollution](#) Credits: 3
- [GGG 321 - Biogeography: Space, Time and Life](#) Credits: 3
- [GGG 322 - Issues in Global Change](#) Credits: 3
- [GGG 357 - Structures in Urban Governance and Planning](#) Credits: 3
- [GGG 398 - Selected Topics in Global Change](#) Credits: 3
- [GGG 399 - Selected Topics in Geography](#) Credits: 3

Regional Courses (one course from the following must be taken):

- [GGG 315 - Geography of the United States](#) Credits: 3
- [GGG 316 - Geography of Latin America](#) Credits: 3
- [GGG 320 - Geography of Europe](#) Credits: 3
- [GGG 325 - Geography of North Africa and the Middle East](#) Credits: 3
- [GGG 330 - Geography of the Soviet Succession States](#) Credits: 3
- [GGG 333 - Issues in Regional Geography](#) Credits: 3
- [GGG 380 - Geography of Virginia](#) Credits: 3

Geography Elective Courses (9 credits)

- 3 credits of undergraduate-level GGS courses
- 6 credits of 300 or 400-level GGS courses

Outside Requirements (11-12 credits)

- [MATH 113 - Analytic Geometry and Calculus I](#) Credits: 4 ([Mason Core: Quantitative Reasoning](#) course)
- [MATH 114 - Analytic Geometry and Calculus II](#) Credits: 4 **or** [IT 207 - Applied IT Programming](#) Credits: 3 **or** [STAT 250 - Introductory Statistics I](#) Credits: 3 (fulfills the [Mason Core](#) requirement for 'Quantitative Reasoning')
- [CS 112 - Introduction to Computer Programming](#) Credits: 4 (an additional 1 credit information technology ethics course must be taken to completely fulfill the [Mason Core: Information Technology](#) requirement. Recommended courses include [CDS 151](#) **or** [CS 105](#)).

Mason Core and Elective Credits (58-60 credits)

These 58-60 credits are available to fulfill any remaining [Mason Core](#) requirements (outlined below). Once those and all [requirements for bachelor's degrees](#) are met, any remaining credits may be completed by elective courses. Students are strongly encouraged to consult with their advisor to ensure that they fulfill all requirements.

Mason Core

Please note that some [Mason Core](#) requirements may already be fulfilled by the major requirements listed above.

Expand each item below for a link to specific course lists for each category:

Foundation Requirements (15-19 credits)

- [Mason Core UWCU - Written Communication](#) Credits: 6
- [Mason Core UOC - Oral Communication](#) Credits: 3
- [Mason Core UQR - Quantitative Reasoning](#) Credits: 3
- [Mason Core UITC - Information Technology](#) Credits: 3-7

Core Requirements (22 credits)

- [Mason Core UFA - Arts](#) Credits: 3
- [Mason Core UGU - Global Understanding](#) Credits: 3
- [Mason Core ULIT - Literature](#) Credits: 3
- [Mason Core UNSL - Natural Science](#) Credits: 7
- [Mason Core USBS - Social and Behavioral Sciences](#) Credits: 3
- [Mason Core UWC - Western Civilization/Western History](#) Credits: 3

Synthesis/Capstone Requirement (minimum 3 credits)

- [Mason Core USYN - Synthesis/Capstone](#) Credits: minimum 3

Degree Total: Minimum 120 credits
