



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

Type (Check one):

- B.A. B.S. Minor
- Undergraduate Certificate
- M.A. M.S. M.Ed.
- Ph.D. 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)

See Attached

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
Geoinformatics and Geospatial Intelligence	
None	
None	
See Attached	See Attached

Approval Signatures

Department _____ Date _____ College/School _____ Date _____ Provost's Office _____ Date _____
Interdisciplinary Council Use Only

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 _____

Proposed Program Modifications for MS in Geoinformatics and Geospatial Intelligence Fall 2015

The impetus for this change is adding a few electives to the offerings and cleaning up some categorical assignments. At the end we will have tighter thematic groupings along our elective subjects, and five options in each elective set.

Proposed Changes

- 1) **Add** GGS 562 (Photogrammetry) and GGS 840 (Hyperspectral Applications) to Image Analysis elective list
- 2) **Remove** GGS 759 (Topics in Earth Systems Science) from the Image Analysis elective list

GGG 759 is an Earth Science course that does not fit well in the degree, while GGS 562 and 840 are part of the Image Analysis depth within the department.

- 3) **Add** GGS 563 and GGS 675 to GIS elective list
- 4) **Remove** GGS 631, GGS 671, and GGS 795 from the GIS elective list

GGG 563 and 675 are in courses our students have desired to incorporate into their degree programs (and we have done so through substitutions). This changes makes their inclusion official.

GGG 671 is included in both the GIS and Computation Geoinformatics listing. It need only be in one section, and it fits better in computational geoinformatics. GGS 795 is a regional analysis course that does not fit as a GIS elective. GGS 631 is no longer taught by our department.

- 5) **Add** GGS 692 to the Computation Geoinformatics listing.

Web GIS is a new, computationally-focused GIS course that merits inclusion here.

Approvals:

- 9/25/14: Approved by the departmental curriculum committee
- 10/14/14: Approved at GGS department meeting

Current MS GEOI

Core Courses (24 credits):

7 courses + 3 credits of GGS 799 (Thesis)

Students select three courses from the groups below, with no more than two from a single group:

Image Analysis:

GGS 579 - Remote Sensing
GGS 740 - Hyperspectral Imaging Systems
GGS 759 - Topics in Earth Systems Science
GGS 760 - Advanced Remote Sensing Applications

Geographic Information Science (GIS):

GGS 631 - Spatial Agent-Based Models of Human-Environment Interactions
GGS 653 - Geographic Information Analysis
GGS 671 - Algorithms and Modeling in GIS

GGS 772 - Distributed Geographic Information Systems
GGS 791 - Advanced Spatial Statistics
GGS 795 - Seminar in Regional Analysis

Computational Geoinformatics:

GGS 650 - Introduction to GIS Algorithms and Programming
GGS 671 - Algorithms and Modeling in GIS

GGS 754 - Earth Science Data and Advanced Data Analysis
GGS 773 - Interoperability of Geographic Information Systems

Total: 33 credits

MS GEOI

After Proposed Modifications

Core Courses (24 credits):

7 courses + 3 credits of GGS 799 (Thesis)

Students select three courses from the groups below, with no more than two from a single group:

Image Analysis:

GGS 562 - Photogrammetry

GGS 579 - Remote Sensing
GGS 740 - Hyperspectral Imaging Systems

GGS 760 - Advanced Remote Sensing Applications
GGS 840 – Hyperspectral Imaging Applications

Geographic Information Science (GIS):

GGS 563 – Advanced GIS

GGS 653 - Geographic Information Analysis

GGS 675 – Location Science

GGS 772 - Distributed Geographic Information Systems
GGS 791 - Advanced Spatial Statistics

Computational Geoinformatics:

GGS 650 - Introduction to GIS Algorithms and Programming
GGS 671 - Algorithms and Modeling in GIS
GGS 692 – Web GIS
GGS 754 - Earth Science Data and Advanced Data Analysis
GGS 773 - Interoperability of Geographic Information Systems

Total: 33 credits