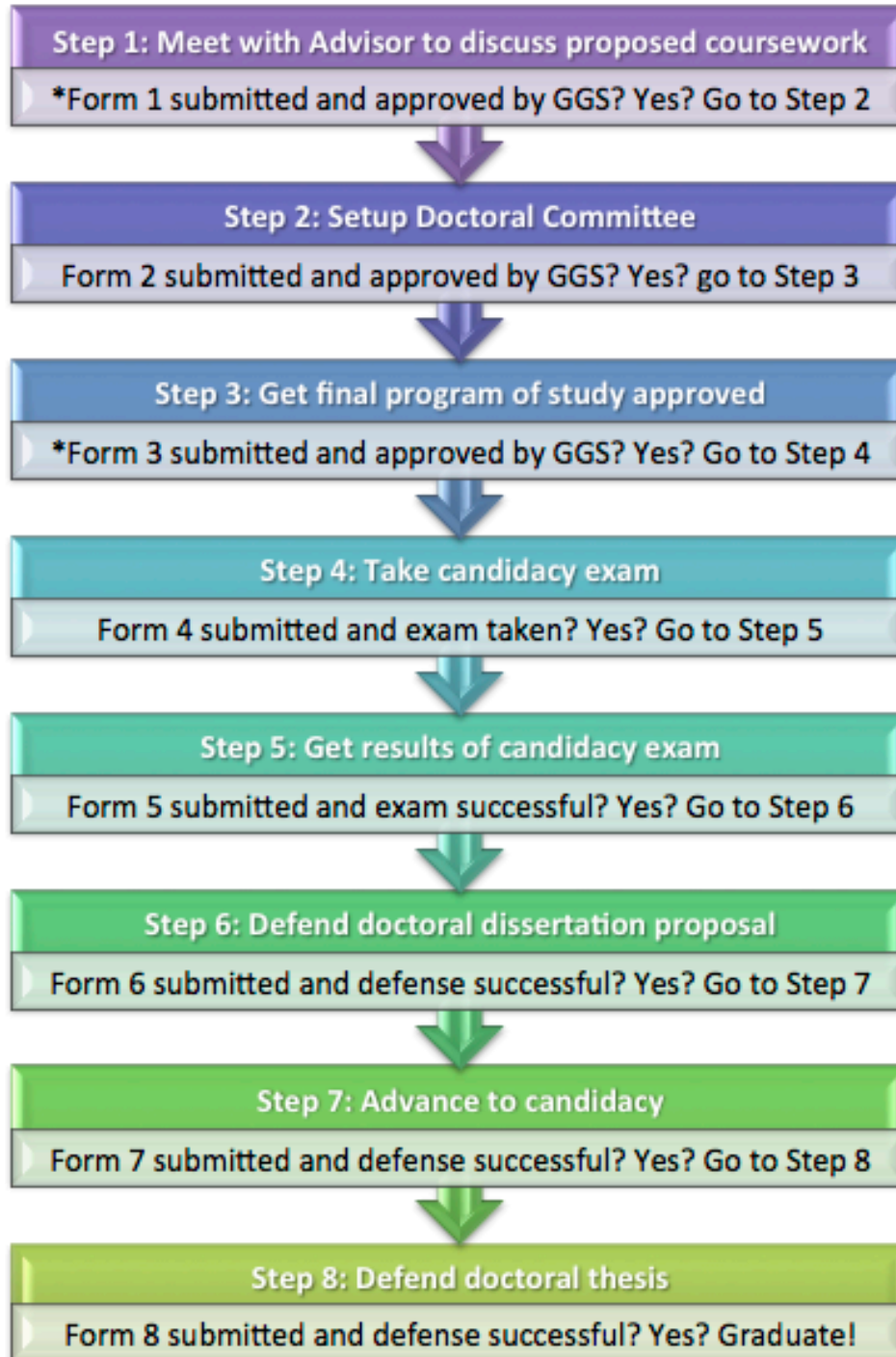


PhD Earth Systems and Geoinformation Science Workflow



*** PLEASE USE CORRECT PAGE OF FORM FOR YOUR CATALOG YEAR**



Ph.D. in Earth Systems and Geoinformation Sciences (ESGS)

During the first semester the student should meet with the assigned advisor to document a preliminary listing of anticipated coursework. Credits from a previous graduate program should also be listed on this sheet, along with credits taken in non-degree status at GMU. Credit Reduction application forms should be filed, if appropriate. **FOR STUDENTS REGISTERED PRIOR TO FALL 2013 PLEASE USE THE FORM ON THE NEXT PAGE.**

STUDENT NAME: _____ G# _____ Date: _____

Telephone: _____ GMU Email: _____

Student Catalog Year: _____

QUANTITATIVE CORE ¹	CR HRS	INSTITUTION	SEMESTER	GRADE
GEOINFORMATICS CORE ¹				
GEOSCIENCE AND PHYSICAL GEOGRAPHY CORE ¹				
HUMAN GEOGRAPHY CORE ¹				
GEOGRAPHIC INFORMATION SCIENCE CORE ¹				
REMOTE SENSING CORE ¹				
RESEARCH SYNTHESIS ²				
COLLOQUIUM EARTH SCIENCES ³				
ELECTIVES ⁴				
DISSERTATION REQUIREMENT ⁵				

ADVISOR SIGNATURE _____ Date: _____

¹ Complete at least 1 course in five of the cores and two courses in at least three of those five
² Take one course
³ Take twice
⁴ At least half must be from GGS courses in consultation with your committee
⁵ A total of 24 credits of GGS 998-999 are required

Submit completed forms with Advisor signature to the GGS Department Office for final approval and processing.



Ph.D. in Earth Systems and Geoinformation Sciences (ESGS)

During the first semester the student should meet with the assigned advisor to document a preliminary listing of anticipated coursework. Credits from a previous graduate program should also be listed on this sheet, along with credits taken in non-degree status at GMU. Credit Reduction application forms should be filed, if appropriate. **THIS FORM IS TO BE COMPLETED BY STUDENTS REGISTERED PRIOR TO FALL 2013**

STUDENT NAME: _____ G# _____ Date: _____

Telephone: _____ GMU Email: _____

Student Catalog Year: _____

COMPUTATIONAL- QUANTITATIVE CORE ¹	CR HRS	INSTITUTION	SEMESTER	GRADE
GEOSCIENCES-GEOGRAPHY CORE ²				
GEOINFORMATION SCIENCES CORE ³				
ESGS CONCENTRATION REQUIREMENTS ⁴				
SEMINAR/COLLOQUIUM COURSES ⁵				
CONCENTRATION ELECTIVES ⁶				
DISSERTATION REQUIREMENT ⁷				

ADVISOR SIGNATURE _____ Date: _____

¹ 6 credits of Computational-Quantitative Core courses
² 6 credit hours of courses selected from Geoinformation-Geography Core area
³ 6 credit hours of Geoinformation Sciences Core courses
⁴ 6 credit hours of Concentration courses
⁵ 3 credits of Seminar/Colloquium courses
⁶ 21credit hours of Elective Courses after consultation with advisor
⁷ 24 credit hours of Dissertation research GGS 998 and GGS 999

Submit completed forms with Advisor signature to the GGS Department Office for final approval and processing.



Ph.D. in Earth Systems and GeoInformation Sciences (ESGS)

The dissertation committee consists of a minimum of four members including the Dissertation Chair. GGS doctoral committees should include at least four members of the graduate GMU faculty: Two tenured or tenure-track (T/TT) faculty from GGS, and at least one member of the graduate faculty (T/TT) from another GMU department or program outside of GGS. Non-GMU members may serve on the committee only with the consent of the PhD Coordinator and must be approved as Affiliate/Graduate Faculty by the Department and GMU Administration. The final membership must represent at least two disciplinary areas and two departments. This form should be completed and submitted by the end of your 2nd year. Please consult with your Dissertation Chair on potential committee members.

STUDENT NAME: _____ **G#** _____ **Date:** _____

Telephone: _____ **GMU E-mail:** _____

If revision (of committee), provide nature and reason for revision: _____

Revised

DISSERTATION COMMITTEE

Signature

Date

Member & Affiliation _____

Member & Affiliation _____

Member & Affiliation _____

Dissertation Chair

Proposed Dissertation Topic: _____

Student _____

Signature

Date

Graduate Coordinator _____

Signature

Date

Associate Dean, COS _____

Signature

Date



Ph.D. in Earth Systems and Geoinformation Sciences (ESGS)

The student develops a detailed program of study including GMU coursework taken in degree status as well as graduate courses taken prior to admission. All committee members and the graduate coordinator must approve the program of study as documented on this form.

STUDENT NAME: _____ G# _____ Date: _____

Telephone: _____ GMU E-mail: _____

Student Catalog Year: _____

DISSERTATION COMMITTEE

Signature

Date

Member & Affiliation

Member & Affiliation

Member & Affiliation

Dissertation Chair

Student

Signature

Date

Graduate Coordinator

Signature

Date

SUMMARY OF CREDIT HOURS

(42 MINIMUM CREDITS MUST BE EARNED AT GMU IN Ph.D. DEGREE STATUS*)

Credits from Previous Graduate Study: _____

Non-degree Credits:¹ _____

In-degree Credits: _____

Research Hours:² _____

Grand Total Credits: _____

Please see next page

¹ No more than 12 credit hours may have been earned in [non-degree status](#)

² A total of 24 credits of GGS 998-999 are required



Ph.D. in Earth Systems and Geoinformation Sciences (ESGS)

For more information on available courses and requirements please refer to the following link
<http://ggs.gmu.edu/AcademicPrograms/ESGSPHD/PHDESGS.html>. **FOR STUDENTS REGISTERED PRIOR TO FALL 2013 PLEASE USE THE FORM ON THE NEXT PAGE.**

STUDENT NAME: _____ G# _____ Date: _____
 Telephone: _____ GMU E-mail: _____
 Student Catalog Year: _____

QUANTITATIVE CORE ¹	CR HRS	INSTITUTION	SEMESTER	GRADE
GEOINFORMATICS CORE ¹				
GEOSCIENCE AND PHYSICAL GEOGRAPHY CORE ¹				
HUMAN GEOGRAPHY CORE ¹				
GEOGRAPHIC INFORMATION SCIENCE CORE ¹				
REMOTE SENSING CORE ¹				
RESEARCH SYNTHESIS ²				
COLLOQUIUM EARTH SCIENCES ³				
ELECTIVES ⁴				
DISSERTATION REQUIREMENT ⁵				

¹ Complete at least 1 course in five of the cores and two courses in at least three of those five
² Take one course
³ Take twice
⁴ At least half must be from GGS courses in consultation with your committee
⁵ A total of 24 credits of GGS 998-999 are required

Submit completed forms with committee signatures to the GGS Department Office for final approval and processing.



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PROGRAM OF STUDY

FORM 3
 Page 2 of 2

Ph.D. in Earth Systems and Geoinformation Sciences (ESGS)

For more information on available courses and requirements please refer to the following link
http://catalog.gmu.edu/preview_program.php?catoid=15&poid=5719&returnto=983 . **THIS FORM IS TO BE COMPLETED BY STUDENTS REGISTERED PRIOR TO FALL 2013**

STUDENT NAME: _____ G# _____ Date: _____

Telephone: _____ GMU E-mail: _____

Student Catalog Year: _____

COMPUTATIONAL- QUANTITATIVE CORE ¹	CR HRS	INSTITUTION	SEMESTER	GRADE
GEOSCIENCES-GEOGRAPHY CORE ²				
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ESGS CONCENTRATION REQUIREMENTS ⁴				
SEMINAR/COLLOQUIUM COURSES ⁵				
CONCENTRATION ELECTIVES ⁶				
DISSERTATION REQUIREMENT ⁷				

¹ 6 credits of Computational-Quantitative Core Courses
² 6 credit hours of courses selected from Geoinformation-Geography Core area
³ 6 credit hours of Geoinformation Sciences Core Courses
⁴ 6 credit hours of Concentration Courses
⁵ 3 credits of Seminar/Colloquium Courses
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Submit completed forms with committee signatures to the GGS Department Office for final approval and processing.



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**CANDIDACY
EXAMINATION**

FORM 4

Page 1 of 2

Ph.D. in Earth Systems and Geoinformation Sciences (ESGS)

After agreement is reached between student and committee, a final list of exam topics is filed on this form. The exam will be submitted to the GGS Department for review at least one week prior to being administered.

STUDENT NAME: _____ **G#** _____ **Date:** _____

Telephone: _____ **GMU E-mail:** _____

PROPOSED DATE OF EXAM: _____

Dissertation Subject Area: Please provide a brief description of the proposed dissertation subject. Include all topics important to the dissertation. Be as specific as possible!

Submit completed forms with committee signatures to the GGS Department Office for final approval and processing.



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**CANDIDACY
 EXAMINATION**

FORM 4
 Page 2 of 2

Ph.D. in Earth Systems and Geoinformation Sciences (ESGS)

Forms 1 to 3 should be completed and turned in to the GGS Office prior to the Candidacy Exam.

STUDENT NAME: _____ **G#** _____ **Date:** _____
Telephone: _____ **GMU E-mail:** _____

TOPICS COVERED IN YOUR PROGRAM OF STUDY / RESEARCH

DISSERTATION COMMITTEE

Signature

Date

Member & Affiliation

Member & Affiliation

Member & Affiliation

Dissertation Chair

Student

 Signature

 Date

Graduate Coordinator

 Signature

 Date

Submit completed forms with committee signatures to the GGS Department Office for final approval and processing.



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**RESULTS OF
 CANDIDACY
 EXAMINATION**

FORM 5
 Page 1 of 1

Ph.D. in Earth Systems and GeoInformation Sciences (ESGS)

Upon successful completion of all portions of the candidacy examination, this form is completed and signed by the committee members and submitted to the GGS Department Office (**along with the exam – questions and answers**) for approval and processing to COS. The Dissertation Proposal must be defended before advancement to Candidacy (See forms 6 and 7).

STUDENT NAME: _____ **G#** _____ **Date:** _____

Telephone: _____ **GMU E-mail:** _____

Dates Administered and Results:

Written: _____ **Results:** _____
Computational: _____ **Results:** _____
Oral: _____ **Results:** _____

Overall Exam Quality: Superior Good Fair

Additional Requirements for Completion:

DISSERTATION COMMITTEE

Signature

Date

 Member & Affiliation

 Member & Affiliation

 Member & Affiliation

Dissertation Chair

Student

 Signature

 Date

Graduate Coordinator

 Signature

 Date

Submit completed forms with committee signatures to the GGS Department Office for final approval and processing.



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**DOCTORAL
DISSERTATION
PROPOSAL**

FORM 6

Page 1 of 1

Ph.D. in Earth Systems and Geoinformation Sciences (ESGS)

Students must prepare a detailed Doctoral Dissertation Proposal and present the proposal to the committee for their approval. A brief description of the proposal is documented on this form, which is submitted along with the complete proposal to the GGS Department for approval and processing.

STUDENT NAME: _____ **G#** _____ **Date:** _____

Telephone: _____ **GMU E-mail:** _____

Dissertation Title _____

Brief Description: (Attach Full Proposal)

DISSERTATION COMMITTEE

Signature

Date

Member & Affiliation

Member & Affiliation

Member & Affiliation

Dissertation Chair

Graduate Coordinator

Signature

Date

Submit completed forms with committee signatures to the GGS Department Office for final approval and processing.



Ph.D. in Earth Systems and Geoinformation Sciences (ESGS)

After successful completion of all portions of the Candidacy Examination and the approval of the Dissertation Proposal, the student is eligible to advance to doctoral candidacy. Forms 1 to 6 must be completed and approved and on file in the GGS Department Office prior to submission of this form. Advancement to candidacy is documented internally on this form. Prior to 999 registration, the University form "Doctoral Advancement to Candidacy and Non-Course Requirements" (<http://ggs.gmu.edu/Forms.html>) must be completed as well and submitted to the GGS Department for completion, approval and final processing to COS and Registrar. Advancement to candidacy should be pursued in the semester prior to 999 registration.

STUDENT NAME: _____ **G#** _____ **Date** _____

Telephone: _____ **GMU E-mail:** _____

This certifies that the above named student has successfully completed all required coursework for their Ph.D. program in the College of Science.

Certifications and Dates:

Coursework completed: _____

Examination passed: _____

Dissertation Proposal Approved: _____

DISSERTATION COMMITTEE

Signature

Date

Member & Affiliation

Member & Affiliation

Member & Affiliation

Dissertation Chair

Graduate Coordinator
Signature Date

Associate Dean, COS
Signature Date



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**DEFENSE OF DOCTORAL
 THESIS FORM 8**
 Page 1 of 1

Ph.D. in Earth Systems and Geoinformation Sciences (ESGS)

STUDENT NAME: _____ G# _____ Date: _____
 Telephone: _____ GMU E-mail: _____

Note: a pre-defense of the dissertation must occur *at least one month prior to the final defense.*

Date of Pre Defense: _____ Date of Final Defense: _____

This certifies that the above named student has been examined by their Doctoral Dissertation Committee and has successfully defended his/her dissertation in the College of Science. The committee members agree unanimously that this student has completed all of the requirements necessary and recommend him/her for the degree of Doctor of Philosophy.

The committee rates the presentation and research quality of this defense as:

Superior Good Fair

<u>DISSERTATION COMMITTEE</u>	<u>Signature</u>	<u>Date</u>
_____ Member & Affiliation	_____	_____
_____ Member & Affiliation	_____	_____
_____ Member & Affiliation	_____	_____
_____ Dissertation Chair	_____	_____
_____ Graduate Coordinator	Signature	Date
_____ Associate Dean, COS	Signature	Date

Submit completed forms with committee signatures to the GGS Department Office for final approval and processing.