Doctor of Philosophy Degree Program in Geophysics

1. Admission to the Doctor of Philosophy (Ph.D.) Program in Geophysics

A student must have a Master of Science (M.S.) Degree in science, mathematics, or engineering in order to be admitted to the Ph.D. program. Students currently enrolled in CPSGG’s MS program may proceed to the Ph.D. program after successfully defending their Master’s thesis with the written approval of the student’s M.S. thesis committee.

2. Minimum Course Work Requirements for Admission

Minimum course requirements for admission into the doctoral program will be determined by the student’s dissertation advisor and approved by the Graduate Affairs Committee. Before a student can be admitted into the Geophysics doctoral program, the student will need to be accepted by a specific faculty member who will ultimately become his/her dissertation advisor.

*Other course work deficiencies may be assessed by the student’s Ph.D. Committee at the time he/she submits their “Advisory Conference Report”*

Students who are deficient in required coursework must remove deficiencies at the earliest offering of the appropriate course(s) at OU.

3. Minimum Course Work Requirements for Degree

Basic requirements for the doctoral degree can be found on page 55 of the 2010-2011 Graduate College Bulletin and [http://gradweb.ou.edu/Current/Doctoral/index.asp](http://gradweb.ou.edu/Current/Doctoral/index.asp). Students in the PhD program must complete at least 15 hours of graded coursework at the University of Oklahoma. Twelve hours of graded coursework must be completed before or concurrent with their General Exam. Courses completed towards an MS degree at the University of Oklahoma may not be included in the required 15 hours.

4. General Examination

The General Examination is intended to test the student’s mastery of a number of related fields as well as the capacity for synthesis, sound generalization and critical ability. The General Examination will consist of both a written and oral examination in the student’s major field and will be prepared by the student’s Ph.D. Committee. The written examination will be followed, within two weeks, by the oral examination in the presence of the entire committee. For students who enter the CPSGG Doctoral Program by application, the General Examination must be completed by the end of the second year of the student’s enrollment in the Ph.D. program. Students who transfer into the Ph.D. program from the M.S. degree program must complete their General Exam within one year of beginning the Ph.D. program.

5. Annual Progress Report

It is the student’s responsibility to complete the annual Graduate Student Progress report, to secure the written approval of his/her Ph.D. committee, and to file the completed and approved report in April of each year of matriculation.

6. Dissertation Proposal

A dissertation proposal signed by the student’s Ph.D. Committee and Graduate Liaison must be on file by the end of the student’s second year. The student is also responsible for fulfilling all Graduate College requirements for the Ph.D. degree.

7. Colloquium and Dissertation Defense

Each student must give a presentation concerning the results of his or her research in a colloquium open to students and faculty. The colloquium must take place during the regular fall or spring semesters. The student will also have a Defense of Dissertation oral examination before graduation, supervised by the student’s Ph.D. Committee. The colloquium may immediately
precede the defense. A reading copy must be provided to all members of the committee and the Graduate College at least 14 days prior to the defense. The defense shall be announced at least one week in advance. The Coordinator of Administrative Student Services, Donna Mullins, will be notified in a timely manner and supplied with the time, date and thesis title so that a notice may be published one week before the colloquium/defense. The dissertation may be written in either a traditional format or as a series of manuscripts for publication. Students are strongly encouraged to present their work at national conferences and publish their research in peer-reviewed journals. In general, a student is expected to submit 2-4 papers during the course of their Ph.D. program.

¹The Graduate College requirements are listed in the Graduate College Bulletin 2009
Core courses are designated below in bold italic:

1. GPHY 4124: Environmental and Geotechnical Geophysics II  
2. GPHY 4874: Seismic Exploration  
3. GPHY 5003: Rock Physics for Seismic Application  
4. **GPHY 5102**: Advanced Field Geophysics  
5. **GPHY 5243**: Computational Geosciences  
6. GPHY 5364: Paleomagnetism  
7. **GPHY 5513**: Introduction to Seismic Processing  
8. **GPHY 5613**: Introduction to Seismic Stratigraphy  
9. **GPHY 5713**: Solid Earth Geophysics  
10. GPHY 5723: Tectonophysics  
11. **GPHY 5864**: Gravimetric and Magnetic Exploration  
12. GPHY 6013: Near-Surface Geophysics Imaging  
13. GPHY 6174: Advanced Seismic Exploration  
14. GPHY 6523: Advanced Seismic Processing  
15. GPHY 6623: Advanced Seismic Stratigraphy  
16. **GPHY 6874**: Applied Seismic Modeling