

*Note: The following items are taken from the 2006-2007 "Graduate College Bulletin" which can be found at <http://gradweb.ou.edu/docs/info/gcbulletin/index.htm> in its entirety. If you feel there is something that should be included in my "Hot Pages", please let me know and I will try to make sure it makes it into the notes.*

## **Donna's Hot Pages**

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### **Enrollment, Grades, and Graduation**

#### **Courses Approved for Graduate Credit**

- ⌚ Graduate credit for work successfully completed at the University of Oklahoma is allowed only for courses listed with a G before the course number.
- ⌚ Daggered courses (†G) are not applicable for graduate credit for majors in the academic unit offering the courses.
- ⌚ Whether a particular course is acceptable as credit toward the degree on which the student is working is determined by the academic unit and/or advisory committee and the Graduate Dean.
- ⌚ Graduate credit for work successfully completed at the University of Oklahoma Health Sciences Center is allowed only for courses listed in its Graduate College Bulletin. (33)

#### **"D" grades**

D is failing insofar as credit toward a graduate degree is concerned and cannot be used to satisfy prerequisite requirements and/or requirements for certificates. (33)

#### **P and NP**

P and NP, meaning Pass and No Pass, are used as grades in a course in which a student has enrolled under the "pass/no pass" grade option. The grades of P and NP are considered neutral in the computation of the student's grade point average.

P indicates work equivalent to a grade of C work or better. NP indicates no credit for a pass/no pass option enrollment. Graduate students may use the pass/no pass option only with courses that will not apply toward a graduate degree. (34)

#### **"ESPs" for enrollment (Electronic Special Permission)**

If you need an ESP for a course, I will need the following information so we will not be playing e-mail tag. Granted I have a lot of information on our students, but when I have to start looking things up, it slows down the process and delays your enrollment and me being able to help others:

- 📌 Student I.D.#
- 📌 Course designator (GEOL, GPHY, etc.)
- 📌 Course number
- 📌 Section number
- 📌 Number of credit hours if it is a variable credit

#### **Fulltime and Maximum Enrollment**

- ⌚ Fulltime enrollment for a graduate student is nine or more credit hours during the fall and spring semesters, four or more credit hours during the summer session.
- ⌚ Audit courses do not count toward the number of hours.
- ⌚ A student may not carry more than 16 hours per regular semester nor more than nine hours per summer session without the permission of the Graduate Dean.

### **Enrollment of Graduate Assistants**

- ⌚ A graduate assistant holding a 0.5 FTE appointment will be required to enroll in at least six credit hours during the fall and spring semesters and at least three credit hours for a summer session to be classified as a fulltime student in the Graduate College.
- ⌚ Students appointed to graduate assistantships should note in the Graduate Assistant Handbook the special rules applying to them.
- ⌚ Graduate assistants with 0.5 FTE appointments enrolled in less than nine hours are not considered fulltime for financial aid purposes. A minimum of six hours of enrollment is required to receive funds as a part-time student from the Oklahoma Tuition Aid Grant Program.
- ⌚ Programs with higher minimum enrollment requirements than those listed in this section shall so indicate in that section of the General Catalog which specifically describes their program. This information also is available in the academic unit and the Graduate College. (35)

### **Auditing courses**

A graduate student may enroll as an auditor with the approval of the course instructor., but “audited” course ***may not*** be counted towards graduate degree.

### **Degree completion**

- ⌚ To qualify for a graduate degree, students must achieve an overall grade point average of 3.0 or higher in the degree program coursework and in all resident graduate course work attempted. A student must also have at least a 3.0 in all coursework (undergraduate and graduate combined) attempted.
- ⌚ All these grade point calculations are based on course work attempted since the completion of the most recent degree earned at the University of Oklahoma.

### **Application for Graduation**

- ⌚ Students must apply for the appropriate degree early within the semester in which they propose to graduate. [http://admissions.ou.edu/academic\\_calendar\\_2007-08.pdf](http://admissions.ou.edu/academic_calendar_2007-08.pdf)
- ⌚ The Application for Graduation must be filed with the registrar indicating the student’s name exactly as it is to appear on the diploma and giving the exact date for which the student was admitted to candidacy. (37)

## **Graduate College Standards**

### **The Grade Point Average**

- ⌚ A graduate student’s grade point average is calculated in two ways:
  1. on graduate coursework only and
  2. on all course work attempted.
- ⌚ These grade point averages are determined on the course work taken since the completion of the most recent degree earned at the University of Oklahoma.
- ⌚ If either of the two calculations yields a grade point average less than 3.0, the student will be placed on academic probation. All grades obtained in graduate-level courses, whether comprising a part of the degree program or not, will be used in calculating grade point averages for purposes of retention and graduation. Exceptions are grades of S, U, I, X, P, NP, W, and AU, for which no grade points are awarded.
- ⌚ Graduate students, who as undergraduates earned graduate credit that had been approved to form part of their graduate programs, will have these credits used in determining their grade point averages. (38)

## Disenrollment

- ⌚ When a *doctoral student earns nine credit hours of grades C, D or F in any combination*, the student will be disenrolled from the doctoral program and will be ineligible for admission to another doctoral program. However, this student can be considered for admission to a master's program in which the student does not already hold a master's degree.
- ⌚ A student who does not meet the requirements of a conditional admission is subject to dismissal from the Graduate College. (38)

## Academic Probation

Students on probation will be notified by letter and/or e-mail that they have been placed on probation. The student's major department also will receive the same notification.

### Low Graduate GPA

- ⌚ Students placed on academic probation because their performance in graduate coursework is below a 3.0 will be evaluated each semester and at the end of the semester in which the next 12 hours of graduate credit coursework is completed.
- ⌚ The 12 hours represent the probationary period.
- ⌚ If, during the probationary period, the student does not achieve a cumulative grade point average of at least 3.0 in all graduate courses awarding grade points which have been taken since completion of the most recent degree at the University of Oklahoma or makes additional grades less than B, then further enrollment will be denied.
- ⌚ Students enrolled in graduate degree programs in which they do not accumulate grade points will be evaluated at the conclusion of an equivalent period.
- ⌚ Students who do not improve their grade point averages may be denied further enrollment before the probationary period elapses.

### Low Overall Course work GPA

Students who are placed on probation because their overall course work performance (undergraduate plus graduate) is below a 3.0 will be evaluated as above, except the probationary period will be considered the next 12 credit hours (both graduate and undergraduate) taken.

### U and NP Probation

- ⌚ A student earning two or more credit hours of U and/or NP in one semester or summer session will be placed on academic probation for the next two semesters in which the student enrolls.
- ⌚ Earning two or more credit hours of U and/or NP during a U or NP probation will be grounds for dismissal from an academic program and the Graduate College.

## Disenrollment

*A student will be denied further enrollment when the student is placed on any type of academic probation for the third time.* (39)

- ⌚ Grounds for dismissal include, but are not limited to,
  - failure to be accepted by an appropriate thesis or dissertation adviser within the stipulated time limitations
  - failure to make timely progress toward the degree
  - failure to perform in course work, qualifying examinations or research at an acceptable level in the respective academic unit. (46)

## Tidbits for Master's students

### **Limitations on Transfer Credit Applied Toward the Master's Degree**

- ⌚ No more than 25 percent of the minimum number of credit hours required for the master's degree may be transferred from other institutions.
- ⌚ However, eight transfer hours may be accepted in a program that requires less than 34 credit hours. (45)

### **3000/4000 Level Courses**

- ⌚ With approval of the academic unit, a student may apply up to a total of 12 credit hours of 3000 and/or 4000 level courses that carry graduate credit toward a 30- to 36-credit-hour master's degree.
- ⌚ For any graduate degree requiring more than 36 credit hours, a student may apply up to one-third of the total credit hours, but no more than 16 credit hours of 3000 and/or 4000 level courses toward the degree.
  - A maximum of three-fourths of the credit hours of 4000 level courses permitted by the Graduate College may be from the academic unit offering the degree (e.g., nine hours on a 30- to 36-hour master's degree).
  - No 3000 level courses from the academic unit offering the degree may apply toward any of its graduate degrees.
- ⌚ A student who has special coursework needs that cannot be met within the limitations listed above may petition the Graduate Dean for an exception to the limitations.
  - The petition must be submitted before the student completes 12 hours of graduate work in the program.
  - The petition must contain a detailed justification for requesting the exception and must list all courses to be applied toward the graduate program.
  - The petition must be endorsed by the student's graduate liaison.
  - The Graduate Dean will make a decision based on the merit of the petition. This decision will not be considered as a precedent for further petitions requesting an exception to the number of 3000/4000 level courses that can be applied toward a graduate degree.

### **S/U Graded Courses**

No more than one-half of the coursework for an OU master's degree, excluding research for the thesis (5980), may be S/U graded coursework.

### **Graduate College Time Limits**

A student registered in a master's degree program will normally complete all of the degree work within five calendar years of graduate enrollment at the University of Oklahoma.

### **“NEW” DEPARTMENTAL REQUIREMENTS/GUIDELINES FOR M.S. COMMITTEES (effective March, 2007)**

**A majority of committee members should be Geology and Geophysics regular faculty members (3 regular Geology and Geophysics faculty members or 2 regular Geology and Geophysics faculty members and one outside the School; the one outside the School can be from another department or a special member appointment to the graduate faculty outside the University). The definition of “regular faculty member” is – tenured, tenure-track, or renewable term. For currently approved committees who do not meet these requirements, the students can add one regular faculty member rather than remove an outside member.**

### **Admission to Candidacy - <http://gradweb.ou.edu/docs/forms/masters/GenericForm.PDF>**

- ⌚ An Admission to Candidacy form must be filed in the Graduate College no later than the first Monday in Mar. (for summer graduates), the first Monday in Apr. (for fall graduates) and the first Monday in Oct. (for spring graduates). <http://admissions.ou.edu/calendar.html> (check academic calendar for specific dates)
- ⌚ The Admission to Candidacy form must be signed by the graduate liaison in the student's department. The liaison's signature indicates that the proposed course of study has been approved.
- ⌚ Only those graduate-level courses needed to complete the requirements of the degree should be listed on the Admission to Candidacy form.
- ⌚ If graduate-level courses are listed in excess of those required for the degree, they will be considered part of the degree program. This can create problems for students who plan to complete a second master's degree or a doctoral degree program.
- ⌚ The Graduate College must approve both sides of the form; the Admission to Candidacy side and the Program of Graduate Work side.
- ⌚ All courses listed on the Program of Graduate Work side must be completed with a satisfactory grade. It is the student's responsibility to make sure that all courses with I grades have been completed and that the I make-up reports have been filed.
- ⌚ Students pursuing a dual degree must file candidacy forms for both programs in the Graduate College before the Graduate College will authorize the comprehensive examination or thesis defense.

***NOTE: Before you submit the final copy of your "Admission to Candidacy Form" to the Graduate College, you will need to present a copy of the completed (this means with signatures) form to Donna in the main office.***

### **Information Packet for thesis completion can be found at:**

**<http://gradweb.ou.edu/docs/info/master/Thesis.pdf>**

### **Changes to Thesis Committee or Thesis Subject**

- ⌚ If there are any changes in either the committee membership or the topic of the thesis, a new Application for Approval of the Master's Thesis Topic and Committee Membership form must be completed.
- ⌚ Changes in either the thesis topic or thesis committee membership must be fully approved by the Graduate College at least ***14 days prior to the thesis defense.***

### **Enrollment Requirements for Thesis Research**

- ⌚ The initial enrollment in Research for the Master's Thesis (5980) must be for at least two credit hours.
- ⌚ Following the initial enrollment in Research for the Master's Thesis (5980), the student must maintain continuous enrollment on the home campus at the University of Oklahoma in at least two hours of 5980 during each regular semester until all degree requirements are completed or the candidacy is discontinued.

### **Thesis Defense**

Specifics for thesis defenses can be found on page 50 of the 2006-2007 Graduate College Bulletin. The ConocoPhillips School of Geology and Geophysics requires that a student schedule their defense with the approval of all of the committees members. If a chair or committee member makes a specific request for a specific amount of time to review the thesis, this is their prerogative. The thesis committee will determine the timing of the student's submission of the draft in order to give committee members sufficient time to review the thesis prior to the deadlines for submitting a reading copy to the Graduate College.

ONE WEEK BEFORE THE DEFENSE DATE, YOU WILL NEED TO MAKE SURE YOU SECURE A ROOM, EQUIPMENT NEEDED AND SEND YOUR THESIS TITLE, DEFENSE DATE, DEFENSE TIME, LOCATION OF THE DEFENSE AND A LIST OF COMMITTEE MEMBERS TO DONNA AT [DSMULLINS@OU.EDU](mailto:DSMULLINS@OU.EDU).

### **Checklist for Master's Students**

Page 54 of the 2006-2007 Graduate College Bulletin

## **Tidbits for Doctoral students**

### **Basic Requirements for the Doctoral Degree**

The total number of hours, combining both formal courses and hours of research, for the doctoral degree will be at least 90 post-baccalaureate hours *exclusive* of the credit hours needed to gain proficiency in the tools of research.

### **Limitations on Transfer Credit Applied Toward the Doctoral Degree**

- ⌚ The number of transfer hours accepted for each student is determined on an individual basis at the advisory conference. However, under no circumstances will more than 44 transfer credit hours be applied toward a doctoral degree.
- ⌚ Correspondence, extension and Advanced Programs credit beyond that permitted on the master's degree is not accepted in the doctoral program.
- ⌚ Credit used for one doctoral degree cannot be applied toward a second doctoral degree.
- ⌚ Transfer credit for thesis research from a completed master's degree may be applied toward a doctoral degree but is limited to the total thesis hours required for the degree.
- ⌚ If a master's degree has been applied toward one doctoral degree, it cannot be applied toward a second doctoral degree.

### **3000/4000 Level Courses**

With approval of the academic unit, a student may apply up to 16 credit hours of 3000 and/or 4000 level courses that carry graduate credit toward the 90 hours required for a doctoral degree.

- A maximum of 12 credit hours of the 4000 level courses may be from the academic unit offering the degree.
- No 3000-level courses from the academic unit offering the degree may apply toward the degree.

### **S/U Graded Courses**

No more than one-half of the coursework for a doctoral degree (excluding 6980) may be S/U graded coursework.

### **Graduate College Time Limits**

- ⌚ A doctoral student who enters the University of Oklahoma graduate program with a bachelor's degree is expected to pass the General Examination within five calendar years of the student's first graduate enrollment in the doctoral program at the University of Oklahoma.
- ⌚ A doctoral student who enters the University of Oklahoma program with a master's degree is expected to pass the general examination within four calendar years of the student's first enrollment in a post-master's course used toward the doctoral degree.
- ⌚ A student becomes a doctoral candidate upon successful completion of the General Examination.
- ⌚ A doctoral candidate is normally expected to complete all degree requirements, including the written dissertation and its defense, within five years after passing the General Examination.

**“NEW” DEPARTMENTAL REQUIREMENTS/GUIDELINES FOR  
PH.D. COMMITTEES  
(effective March, 2007)**

**A majority of committee members should be Geology and Geophysics regular faculty members (3 regular Geology and Geophysics faculty members and 2 outside the School, but within the University or one member outside the School, but within the University and one member outside the School). The definition of “regular faculty member” is – tenured, tenure-track, or renewable term. All 5 committee members must have a Ph.D. Additional members of the committee (>5) do not have to have a Ph.D. This means that some students will have 6 committee members on their committee. For currently approved committees who do not meet these requirements, the students can add additional faculty to meet departmental requirements.**

**Advisory Conference Committee**

The Advisory Conference Committee must consist of at least five graduate faculty members, including at least one regular graduate faculty member at the University of Oklahoma from outside the major academic unit. The ConocoPhillips School of Geology and Geophysics also requires that a student include in their committee membership an individual with expert knowledge in their dissertation research topic. *Each person serving on a graduate student’s committee must have a “graduate faculty” appointment. Thus, Ph.D. students will need to submit a resume to Donna Mullins of the individual who will be serving as the Schools outside member outside the university.*

*It should be noted that all members of a doctoral committee must be present during the oral exam portion of the “General Exam” which means, this member should not be added to the students doctoral committee until after his/her oral examination unless the student or his/her major professor has funding to bring this outside member to the University of Oklahoma for the oral exam. They do not however, have to be present for the final oral defense.*

The majority of the Advisory Conference and Doctoral Committee’s members must be from within the student’s major academic unit.

**Report of Advisory Conference**

- ⌚ After the advisory conference is held, the student must file a completed Report of Advisory Conference.
- ⌚ This report contains:
  - the courses the student will complete in order to meet the doctoral degree requirements
  - the members of the student’s doctoral committee.
- ⌚ The report must be signed by the student, the advisory committee, the graduate liaison of the academic unit, and approved by the Graduate Dean.

**Changes in the Advisory Conference Report**

- ⌚ If a change in the Advisory Conference Report becomes necessary, a Request for Change in Doctoral Advisory Conference Report must be filed with, and approved by, the Graduate Dean.
- ⌚ All members of the committee must approve the request.

**Changes to the Doctoral Committee**

- ⌚ If a doctoral student decides it is appropriate to change the composition of the doctoral committee, the student will seek counsel from the academic unit’s graduate liaison and the chair of the doctoral committee (the major professor).
- ⌚ If it is determined that a committee change is appropriate, the student must process the Change of Committee form.

- ⌚ If the major professor or a committee member from outside the academic unit is being replaced, the signatures of all current members of the committee, the new committee member(s), and the graduate liaison are required.
- ⌚ The signature of a committee member from another university is not required.
- ⌚ If any other committee member is being replaced, only the signatures of the major professor, the new committee member and the graduate liaison are required.
- ⌚ The Graduate Dean will inform all current and proposed members of the Doctoral Committee of the decision made on the composition of the Doctoral Committee.
- ⌚ No change in membership is permitted within 30 days of the General Examination or the dissertation defense.

### **General Examination**

- ⌚ The student must be in good academic standing during the semester the General Examination is taken. In addition, the student must enroll in at least two graduate credit hours at the University of Oklahoma in the semester the General Examination is held.
- ⌚ The student must apply for the General Examination at least *two weeks* before any portion of the General Examination will be held.
- ⌚ The Application for General Examination must be completed and signed by the student, the members of the Doctoral Committee and the graduate liaison of the academic unit. It is then submitted to the Graduate Dean for approval.
- ⌚ Failure to have authorization prior to taking the General Examination could invalidate the General Examination.

### **Arranging the General Examination**

- ⌚ After the Graduate Dean authorizes the General Examination, *the student* should arrange with the Doctoral Committee on a time and place for the General Examination.
- ⌚ The General Examination cannot be scheduled when classes are not in session, during finals week or at any time when the Doctoral Committee cannot be assembled.
- ⌚ The student must complete the General Examination during the semester in which the authority is given.
- ⌚ Both the written and oral portions should be taken during the same semester.
- ⌚ If the examination is not held, a report indicating the reasons why it was postponed must be submitted to the Graduate College, and the student must reapply for the General Examination.

### **The General Examination**

- ⌚ The first part of the General Examination consists of written examinations in the major and (if any) the minor fields and is the responsibility of the Doctoral Committee.
- ⌚ The written examination is followed by an oral examination in the presence of the entire committee.
- ⌚ The Doctoral Committee should meet to determine the results of the written examination. If the examination is failed, proceed to the section below - Failed General Examination.
- ⌚ A student cannot proceed to the oral portion of the General Examination until the written examination has been satisfactorily completed.

### **Results of the General Examination**

- ⌚ Within 72 hours of the oral portion of the General Examination, the chair of the Doctoral Committee will submit a written report signed by all members of the committee to the Graduate Dean.
- ⌚ This report should indicate whether the student has passed or failed the examination.
- ⌚ If the student has passed, the Graduate Dean will admit the student to candidacy for the doctoral degree.

### **Enrollment Requirements for Research for Doctor's Dissertation**

- ⌚ The initial enrollment in Research for the Doctor's Dissertation (6980) must be for at least two credit hours.

⌚ Following the initial enrollment in Research for the Doctor's Dissertation (6980), the student must maintain continuous enrollment on the University of Oklahoma Norman campus in this course until dissertation hours are completed and the doctoral degree program is completed.

### **Number of Dissertation Credit Hours**

- ⌚ The minimum enrollment in 6980 is two hours each semester.
- ⌚ The number of dissertation credit hours for each enrollment is determined by the faculty adviser on the basis of the amount of faculty and University services required by the individual student. However, each enrollment will not be less than two hours.
- ⌚ A student working fulltime on the dissertation and using University facilities should enroll in at least nine hours of 6980 in regular semesters and four hours of 6980 during summer sessions.

### **Graduation Application**

- ⌚ The Application for Graduation indicates the student's name exactly as it is to appear on the diploma and gives the exact degree to which the student has been admitted to candidacy. This application must be filed with the Office of Academic Records.
- ⌚ The graduation application is good for a maximum of three consecutive academic terms.
- ⌚ All doctoral candidates must pay a \$54 microfilming fee in the Office of the Bursar.

### **Degree Check**

The student must complete the Degree Check card and return it to the Graduate College at least two weeks prior to the submission of the reading copy.

### **Dissertation Reading Copy**

- ⌚ The doctoral candidate should prepare and distribute reading copies of the dissertation to each Doctoral Committee member at least one month prior to the defense.
- ⌚ The reading copy should be in an acceptable dissertation format and must include all figures and tables, numbered pages and a complete bibliography. It should not contain grammatical or spelling errors.
- ⌚ At least five members of the committee must read and determine whether the dissertation demonstrates the student's ability to conduct original research and makes a significant contribution to the student's discipline.
- ⌚ The committee may accept or reject the dissertation.
- ⌚ If the committee rejects the dissertation, the student will have another opportunity to submit an acceptable dissertation to the committee.
- ⌚ If the committee accepts the dissertation, it may require changes and corrections.
- ⌚ When the reading copy has received preliminary approval by the major professor and the other members of the committee, it is submitted to the Graduate College with the completed Request for Authority for Defense of Dissertation, signed by the chair and the graduate liaison.
- ⌚ The signature of the graduate liaison will not be interpreted as approval of the reading copy but will acknowledge that all academic unit requirements have been satisfied.
- ⌚ The reading copy should be submitted to the Graduate College at least two weeks prior to the defense. In addition, it should be submitted according to the deadlines printed in the front of the class schedule for each semester or summer session.
- ⌚ Printed instructions for the preparation of the dissertation are available in the Graduate College and also are available at <http://gradweb.ou.edu/docs/info/doctoral/DissertationInstPacket.pdf>.

*ONE WEEK BEFORE THE DEFENSE DATE, YOU WILL NEED TO MAKE SURE YOU SECURE A ROOM, EQUIPMENT NEEDED AND SEND YOUR DISSERTATION TITLE, DEFENSE DATE, DEFENSE TIME, LOCATION OF THE DEFENSE AND A LIST OF COMMITTEE MEMBERS TO DONNA AT [DSMULLINS@OU.EDU](mailto:DSMULLINS@OU.EDU).*

### **Checklist for Doctoral Students**

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## **ALL GRADUATE STUDENTS WATCH MAXIMUM CREDIT HOURS!**

Graduate Students should be aware of the number of hours they can take of any specific course, but especially the variable credit courses. Course descriptions for the courses that have caused problems in the past for student are listed below:

### **GEOLOGY (GEOL):**

**G4970 Seminar.** 1 to 3 hours. Prerequisite: permission. May be repeated; **maximum credit nine hours.** (F, Sp)

**G5010 Paleomagnetism/Diagenesis Seminar.** One to two hours. Prerequisite: Senior or graduate standing; GPHY 5364 suggested. Seminar includes presentations by the professor on research topics as well as presentations by students on papers they read. In addition, each student will also make at least one presentation on their research. Also, students will work through a self-instruction lab with the microscopes. Focuses on recognizing diagenetic features that are important for paleomagnetism. **May be taken for a total of six (6) credit hours.** (F, Sp)

**G5020 Sedimentology and Stratigraphy Seminar.** Prerequisite: graduate standing. **May be repeated with change of content; maximum credit twelve hours.** Directed seminar on selected aspects of sedimentology and stratigraphy. (F, Sp)

**G5030 Petrology Seminar.** Topical presentations and discussions in hard-rock petrology, and related geochemistry and mineralogy, given by faculty, graduate students, and visiting school colloquium speakers. **May be repeated for a total of 12 credit hours.**

**G5990 Special Studies.** 1 to 3 hours. Prerequisite: permission. May be repeated; **maximum credit nine hours.** Advanced special studies in geological problems. May include directed reading in geology, fieldwork, laboratory research or preparation of reports. (F, Sp, Su)

**G6950 Research.** 1 to 4 hours. Prerequisite: graduate standing and permission of faculty supervisor. May be repeated with change of content; **maximum credit 12 hours.** Individual research in various areas of geology. (F, Sp, Su)

**G6960 Directed Readings.** 1 to 6 hours. Prerequisite: graduate standing and permission of faculty supervisor. May be repeated; **maximum credit six hours.** Supervised reading at an advanced graduate level. (F, Sp, Su)

**G6970 Seminar.** 1 to 4 hours. Prerequisite: graduate standing and permission of faculty supervisor. May be repeated with change of subject matter; **maximum credit twenty hours.** Directed seminar on selected aspects of geologic knowledge and inquiry. (F, Sp, Su)

### **GEOPHYSICS (GPHY):**

**G4970 Seminar.** 1 to 3 hours. Prerequisite: permission of instructor. May be repeated with change of content; **maximum credit nine hours.** (F, Sp)

**G5990 Special Studies.** 1 to 3 hours. Prerequisite: permission. May be repeated; **maximum credit nine hours.** Advanced special studies in geophysical problems. May include directed reading in geophysics, fieldwork, laboratory research or preparation of reports. (F, Sp, Su)

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**G6950 Research.** 1 to 4 hours. Prerequisite: graduate standing and permission of faculty supervisor. May be repeated with change of content; **maximum credit 12 hours**. Individual research in various areas of geophysics. (F, Sp, Su)

**G6960 Directed Readings.** 1 to 6 hours. Prerequisite: graduate standing and permission of faculty supervisor. May be repeated; **maximum credit six hours**. Supervised reading at an advanced graduate level. (F, Sp, Su)

**G6970 Seminar.** 1 to 4 hours. Prerequisite: graduate standing, permission. May be repeated with change of subject matter; **maximum credit twenty hours**. Directed seminar on selected aspects of geophysical knowledge and inquiry. (F, Sp)