

UC DAVIS
DEPARTMENT OF GEOLOGY GRADUATE PROGRAM
**GRADUATE STUDENT HANDBOOK
AND GRADUATE DEGREE REQUIREMENTS**



Twenty-fourth Edition, Fall 2012
V4_10/19/2012

FORWARD

Welcome to the Graduate Program in the Department of Geology at UC Davis. Graduate school is an important stage in your career as a scientist. Perhaps for the first time you will be participating in the process of scientific inquiry. Our goal is to challenge students and prepare them for careers in academia, industry, or business. Our hope is that your stay here will be both exciting and productive, and this handbook is designed to assist you with a successful graduate career. In it, you will find information about the requirements you must meet to complete a graduate degree in Geology at UCD. In addition, you will find information on financial aid, departmental facilities, life in Davis, and some of the rules and procedures that are part of UC Davis. We wish you the best of luck!

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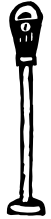


ORIENTATION AND MENTORING INFORMATION FOR ENTERING GRADUATE STUDENTS UC DAVIS GEOLOGY DEPARTMENT

REGISTRATION: Enroll in 12 units. Get a Student ID Card.



LIBRARY CARD: Take your Student ID Card to Shields Library to complete a short application to authenticate your library account. See: <http://library.ucdavis.edu>



MOTOR VEHICLE PARKING PERMIT: Transportation and Parking Services (TAPS) is located southeast of the Pavilion and near the baseball field. See: <http://taps.ucdavis.edu>

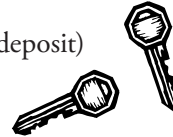
BICYCLE REGISTRATION: Go to TAPS, southeast of the Pavilion and near the baseball field. Be sure to take your bike with you when you go.



ESTABLISHING CALIFORNIA RESIDENCY: Office of the Registrar. Rules and regulations for establishing residency in California are explained at <http://registrar.ucdavis.edu/html/slr.html>

OFFICE ASSIGNMENT: Find Kristine Agustin, Graduate Program Assistant (rm. 2119E). You will need the following keys from the following people:

- Front Door, Office Door: Laura Aranda Arestegui, rm. 2119 (\$20 deposit)
- Microscope Cabinets: Laura Aranda Arestegui
- Lane Cabinets: Greg Baxter (rm. 1340B)
- Key Pad Access: Laura Aranda Arestegui



BROWN BAG SEMINAR: Every Friday, noon. Students and faculty give informal lectures on research, travel, or other interests. Bring a bag lunch.

DEPARTMENT SOCIALS: Don't miss the Fall Field Trip, December Party, and Spring Picnic!

CAMPUS RESOURCES

- **Graduate Student Association:** The Graduate Student Association is the representative student government of all of UC Davis' graduate students. <http://gsa.ucdavis.edu/>
- **UCD Student Health Services:** Student Health and Wellness Center. 752-2349, <http://healthcenter.ucdavis.edu>
- **UCD Student Disability Center:** The University of California, Davis, is committed to ensuring equal educational opportunities for students with disabilities. <http://sdc.ucdavis.edu/>
- **UC Davis Mediation Services:** Provides no cost mediation and conflict management services for faculty, staff and graduate students facing conflict at work. <http://mediation.ucdavis.edu/>
- **UCD Learning Skills Center:** 2205 Dutton Hall, 752-2013, <http://lsc.ucdavis.edu>
- **UCD Center for Excellence in Teaching and Learning:** Programs and resources for TAs. <http://cetl.ucdavis.edu>
- **UCD Counseling and Psychological Services:** <http://caps.ucdavis.edu/index07.htm>

CITY LIVING

- **Banks and S&L's:** Centrally located downtown between E & F and 3rd & 4th streets.
- **Utilities:** PG&E (gas and electricity): <http://www.pge.com>; AT&T: <http://www.att.com>
- **Newspapers:** Davis Enterprise: <http://www.davisenterprise.com>;
Sacramento Bee: <http://www.sacbee.com>
- **Movies:** There are 11 screens downtown. Tuesday is cheap night. In addition, films are frequently shown on campus. Check in *The Aggie*, the daily student newspaper. <http://www.theaggie.org/>



SPORTS AND RECREATION

- <http://campusrecreation.ucdavis.edu/cms>
- UCD Intramural Sports: basketball, softball, soccer, and many more



- UCD Craft Center: in the Silo - see campus map
- Swimming: on campus at the Rec Pool, Hickey Gym, free with Student ID Card; off-campus through Davis Aquatic Masters Swim Team or local fitness clubs.
- Outdoor Adventures (near the Silo): climbing, backpacking, whitewater rafting, cross-country skiing, sailboarding, and more!

MENTORING GUIDELINES

The Mentoring Guidelines followed in the Geology Graduate Program (GGP) are the same as those found in the UCD Graduate Student Guide: <http://gradstudies.ucdavis.edu/students/handbook>



THE POWERS THAT BE

You will be dealing with many committees and advisors during your stay here at Davis. Below is a list to help you keep them straight.

FACULTY ADVISOR(S), (ALSO KNOWN AS THESIS ADVISOR, DISSERTATION ADVISOR): The Faculty Advisor is the faculty member in the Department who provides the primary supervision and guidance of the student in the Geology Graduate Program (GGP).

ADVISORY COMMITTEE: The Advisory Committee consists of *three* members of the faculty, including the Faculty Advisor, and will meet with the student (both M.S. and Ph.D.) once a year at the Annual Advisory Committee Meeting. Normally, the Advisory Committee is the same as the Master's Thesis Committee or the Doctoral Dissertation Committee. For Ph.D. students, the Advisory Committee members are responsible for approving the dissertation proposal before the Qualifying Exam, and are normally 3 of the 5 members of the Qualifying Exam Committee.

MASTER'S THESIS COMMITTEE OR DOCTORAL DISSERTATION COMMITTEE: The three members of the Thesis or Dissertation Committee (normally the same as the Advisory Committee) read, approve and sign the final version of the thesis or dissertation. The Faculty Advisor is normally the chair of this committee. The student must ask each member to serve on the committee. Once the members have agreed to serve, the Graduate Advisor formally nominates them. The student downloads and completes the candidacy form located at: <http://gradstudies.ucdavis.edu/forms/>. The Dean of Graduate Studies (see requirements section) reviews the application for candidacy and formally appoints the committee. Persons qualified to serve on these committees are:

1. All voting members of the Academic Senate of the University of California.
2. On special written request by the Graduate Advisor, and with the approval of the Dean of Graduate Studies, researchers and lecturers with doctoral degrees engaged in continuing research activity.
3. Persons from outside the University of California may serve on a committee if they have special expertise and qualifications beneficial to the student and/or to the Department. In this case, the student submits for Graduate Advisor approval a brief statement indicating the appointee's affiliation and title, what degree he/she holds, and that the appointee has special expertise that cannot be duplicated within the University of California. To add an external committee member requires a complete CV plus the form (External Committee Membership Application, <http://gradstudies.ucdavis.edu/forms/>) and a letter from the proposed appointee indicating a willingness to serve.

QUALIFYING EXAMINATION COMMITTEE: Required for Ph.D. students only, the Qualifying Examination Committee is composed of at least five members, including the Dissertation Advisor. Also included are at least one member from outside the Geology graduate program (from the UCD faculty or from outside UCD), and (usually) the other members of the Dissertation Committee. The Dissertation Advisor cannot serve as chair of the Qualifying Examination Committee. The qualifications for membership on the Committee are the same as those for the Dissertation Committee (see above). The student completes the Application for the Qualifying Examination which must be signed by the GGP Chair Delegate. The Dean of Graduate Studies reviews the Application for Qualifying Examination and appoints the committee. *The student should submit the Application for Qualifying Examination to Graduate Studies at least 6 weeks prior to this examination.*

GRADUATE ADVISORS: The Department of Geology has three Graduate Advisors. They handle almost all graduate affairs on behalf of the Department, and sign the numerous forms that a student must submit during his/her graduate career. The advisors for 2011-2012 are:

- Chair of GGP: **Magali Billen** (rm. 2129). In charge of continuing student matters; handles student evaluations and progress meetings. Also will approve and sign most forms and petitions to Graduate Studies.
- Admissions Chair: **Eric Cowgill** (rm. 3121). Handles admissions and new students.
- Fellowships and Educational Policy Chair: **Qing-zhu Yin** (rm. 3129). Handles graduate student support such as fellowships and TA assignments.

GRADUATE PROGRAM ASSISTANT: Kristine Agustin is the Geology Department's Graduate Program Assistant. When you need assistance with GGP administrative issues, see her first.



REQUIREMENTS FOR THE GRADUATE DEGREE IN GEOLOGY

Each year students entering the graduate program are faced with a vast array of requirements that they must meet to complete a graduate degree. These requirements may change from year to year, but a student is governed by those rules under which he/she either entered or leaves the program (at the student's discretion). Below are the requirements effective for the 2011-2012 academic year.

UCD REQUIREMENTS: The UCD Graduate Studies website provides details on requirements and guidelines. Please consult the following documents if you wish to have additional information about these university requirements:

- **Graduate Student Guide:** <http://gradstudies.ucdavis.edu/students/handbook/>
- **Graduate Studies Adviser's Handbook:**
http://www.gradstudies.ucdavis.edu/facstaff/GS202_AdvisersHandbook.pdf

GENERAL DEPARTMENTAL REQUIREMENTS:

1. Students *must* enroll for a minimum of 12 units per quarter. Under exceptional circumstances only, students may be admitted to the Graduate Program as part-time students. The conditions under which a student may be admitted and participate in the Graduate Program in part-time status will be determined by the student and Faculty Advisor, in consultation with the Graduate Advisors.
2. Any student in a degree program in the Department of Geology, working toward a degree in Geology, must have a Faculty Advisor who is a member of the Geology Graduate Program (GGP).
3. Students must enroll in Geology 290, our weekly departmental seminar, each quarter prior to passing their Qualifying Exam. Enrolling in GEL 290 is strongly recommended thereafter.
4. All students are required to take GEL 390, the T.A. orientation course offered by the Department each year. All students are required to take the T.A. Orientation offered by the Center for Excellence in Teaching and Learning (CETL) during their first year (beginning of Fall and Winter quarters).
5. A graduating student must complete the Department's final checklist, with all of the required signatures, before receiving his/her degree. The checklist shows that the student has turned in all materials (e.g. keys, thesis, etc.).

REQUIRED MEETINGS: Students are expected to make satisfactory progress toward their degree goals. To facilitate their progress, several meetings are required each year as indicated:

- A. **Introductory Meeting:** first-year students only. Prior to their first quarter at UCD, each new student will meet with two Geology Graduate Advisors to discuss their particular program of study, possible course deficiencies, other administrative issues, and their courses for the first year.
- B. **Continuing Student Meeting:** In February of each year, each student will meet with the GGP chair individually to discuss mostly *administrative* issues and academic goals, to ensure that the student's progress in the program is satisfactory. The Advisors will evaluate the student's progress on the basis of the deadlines described below under **M.S. STUDENTS AND PH.D. STUDENTS**, on the basis of a short written evaluation by the Faculty Advisor prior to the meeting, and on the basis of discussions at the meeting. Failure to make satisfactory progress is likely to affect the student's financial support, as well as their standing in the Graduate Program. All evaluations of Marginal and Unsatisfactory Progress must be forwarded to the Office of Graduate Studies.
- C. **Prospectus Meeting:** first-year students only. In Spring quarter of the first year, each graduate student will meet with a committee including their Faculty Advisor, one of the Graduate Program Advisors and one other faculty member to discuss their prospectus. See **DEGREE REQUIREMENTS** for more details. Please obtain a Prospectus Meeting form from the graduate assistant and bring it to the meeting to be completed.
- D. **Annual Advisory Committee Meeting:** all non-first-year students. In Spring Quarter, each graduate student will meet with their Advisory Committee to discuss *research* issues primarily. Students are strongly encouraged to communicate with all members of their Thesis or Dissertation Advisory Com-

mittee simultaneously, at regular intervals in their graduate program. Awarding of Durrell funds is contingent upon the completion of this meeting annually. Please obtain an Annual Advisory Meeting form from the graduate assistant and complete the form BEFORE the meeting.

- E. **Student Financial Support Meeting:** All students are required to meet with their Faculty Advisors in Spring Quarter to discuss student financial support for the following academic year, and submit to the Graduate Program Assistant a signed statement of support expectations. A brief follow-up meeting will occur in September before classes begin, to provide an updated support statement. Please obtain a TA Request and Funding Report form from the graduate assistant to complete at this meeting with your Faculty Advisor.

MANUSCRIPTS:

1. *Any* manuscript written by a student and citing the Department of Geology, UC Davis, as the institutional affiliation must be reviewed before submission and approved by an appropriate member of the faculty in the Department of Geology, normally the Faculty Advisor. Any manuscript that is intended to be part of a M.S. or Ph.D. thesis must be submitted for review by the Thesis or Dissertation Committee *no later than* the time at which the manuscript is submitted for possible publication.
2. Co-authored material is acceptable for inclusion in theses/dissertations, but the student must have completed the bulk of the research, written the text, and be first author. Issues of co-authorship should be discussed in the Annual Advisory Committee Meeting prior to completion of the thesis/dissertation. *All theses/dissertations must include a prominent statement defining the contributions and responsibilities of each author of co-authored material.*
3. Permission must be received for copyrighted (published) work *subsequently* included in a thesis/dissertation. Consult the UC copyright website for additional information: <http://www.InnovationAccess.ucdavis.edu/copyright>

FILING FEE: Students who have completed *all* Department requirements, with the exception of the thesis/dissertation, the public Departmental seminar, and for Ph.D. students, the Thesis Defense, may choose to go on “Filing-Fee Status.” Students must be at the “writing stage” before entering Filing Fee Status. Students who are on Filing Fee Status are not eligible for the privileges and the use of facilities regularly accorded to enrolled students (e.g., desk space in the Department, library, Department laboratories, Student Health Center, etc.). A one-time fee is paid when the student applies for Filing-Fee status. Note, the university will easily grant filing fee status for one quarter, but will only extend this to two quarters in special circumstances. It is Department policy that all students who are on Filing-Fee Status must meet the following requirements:

- A. At the beginning of each quarter in Filing-Fee Status each student *must* submit tangible and acceptable written evidence that he/she has made progress on his/her thesis or dissertation during the preceding quarter. Evidence will be evaluated by the Faculty Advisor and one of the Graduate Advisors.
- B. M.S. students *must* complete his/her graduate degree within 12 months of the beginning of their Filing-Fee Status, including summer.
Ph.D. students *must* complete his/her graduate degree within 18 months of the beginning of their Filing-Fee Status, including summer.

Failure to meet Filing-Fee Policy requirements will result in dismissal from the program. If, following dismissal, the student wishes to complete his/her graduate degree, he/she must apply and be accepted for readmission to the Department and to UC Davis.

CHANGING DEGREE GOALS:

- **From M.S. degree to Ph.D. degree:** Graduate students pursuing a M.S. degree in the UCD Geology Graduate Program who wish to complete a Ph.D. degree upon finishing the M.S. should complete a Petition for Change of Graduate Degree Objective, and complete the following steps. The Petition must be filed with the Geology Graduate Assistant and Chair of the GGP by January 15 of the academic year prior to the anticipated start of their Ph.D. program, typically the second year in the M.S. program at UCD. This ensures that M.S. students who wish to continue into the Ph.D. program are

considered for admission along with new applicants to the program during the regular application cycle. Note, that if the student goes on Filing Fee status to complete their M.S. degree, then they must apply to the Ph.D. program as a new student and can not use the Petition for Change of Graduate Objective form.

Admission to the Ph.D. program is competitive; earning a M.S. in the GGP does not guarantee admission to the Ph.D. program. Before registering as a Ph.D. student, the M.S. degree must be completed; the Petition for Change of Graduate Degree Objective will not be signed by the Chair of the GGP and submitted to the Registrar until the M.S. thesis title page has been signed by all members of the Thesis Committee, signifying that all M.S. degree requirements have been met. Registration as a Ph.D. student can be deferred until later if necessary, but no extension of financial support is guaranteed. A total of 7 courses (4 non-breadth and 3 breadth) taken as an M.S. student in Geology at UCD will be counted toward the Ph.D. course requirements.

- **From Ph.D. degree to M.S. degree:** Students who change their degree objectives from the Ph.D. to M.S. must abide by the departmental support commitment for M.S. students (namely, two years of guaranteed support), from their date of admission as Ph.D. students.

GRADUATE STUDENT SUPPORT:

In the Geology Graduate Program currently, M.S. students are guaranteed support for **two** years, in the form of a TA, GSR (Graduate Student Researcher), or fellowship, or a combination of these; Ph.D. students are guaranteed support for **four** years, in the form of a TA, GSR, or fellowship, or a combination of these. M.S. students approved to change their degree objective to the Ph.D. after finishing the M.S. at UCD are guaranteed an additional three years of support, in form of TA, GSR or fellowship, for a total of **five** years of support.

Students needing additional support beyond their guaranteed allotment will be considered as “alternates” for support, and will be awarded support in the form of a TA or GSR if and as it is available, beyond that committed to those students still within their guaranteed allotment of support. Alternate support in the form of TAs per student are limited to one quarter for M.S. students and two quarters for Ph.D. students, beyond the two and four/five years guaranteed by our admissions offer. Although these limits will be reviewed and adjusted depending on programmatic needs and prior GSR/fellowship support granted to the student, they will be considered as the default policy.

University rules state that students can receive a maximum of 15 quarters of TA support and 15 quarters of GSR support. The student is still required to complete the degree within normative time (4-6 years for Ph.D. students).

GRADUATE STUDENT PROGRESS:

Both the student and the Faculty Advisor will be expected to be aware of and to abide by the requirements outlined in the Department of Geology’s “Graduate Student Handbook” provided to both student and advisor at the beginning of each each academic year, in both paper and electronic form.

Failure to meet specified program deadlines, as determined at the Continuing Student Meetings with the Graduate Advisors, will result in the student being placed on departmental probation for funding, potentially jeopardizing future financial support. The student will receive a warning that is also forwarded to the advisor and to the UCD Office of Graduate Studies. If not addressed, this could lead to a designation of unsatisfactory progress, resulting in a letter from the Dean of Graduate Studies placed in the student’s file.

The responsibility for understanding and meeting program deadlines lies first with the **graduate student**. The next responsible person is the student’s Faculty Advisor; any faculty member who admits a graduate student to work him/her accepts the responsibility of understanding program deadlines and discussing them with the student. First the Geology Graduate Program Assistant (GPA), and then the Geology Graduate Advisors provide the final check to see that program deadlines have been met.

ADVICE:

Talk to your Faculty Advisor regularly. It is his or her responsibility to advise you; it is your responsibility to seek his or her advice when you need it. Clear communication is essential to success in graduate school.



M.S. STUDENTS

Graduate students who are pursuing the Master of Science degree in Geology must complete the following University and Department requirements.

UNIVERSITY REQUIREMENTS:

1. The student must complete at least three academic quarters in residence at the University of California, Davis ("in residence" is defined as at least 12 units of upper division and/or graduate courses per quarter).
2. Students must maintain at least a 3.0 grade point average (only courses in 100 and 200 series and with a grade of A, B, C, or S count toward the GPA and the course requirements).
3. Students must file an official application for Advancement to Candidacy at least one academic quarter before completion of all degree requirements and after completion of at least one-half of their course requirements. This form must be signed by a Graduate Advisor and the Faculty Advisor. Forms may be downloaded from the web at: <http://gradstudies.ucdavis.edu/forms/>
4. Students must complete 30 units of course work at the *graduate and upper division levels*. Of these, at least *12* must be graduate courses in the major subject. *Geology 290, 298 and 299 are counted toward this requirement. (see below for Department's course requirements.)*
5. The Master's thesis must be written on a topic approved by the Graduate Advisors. The final thesis is submitted to a committee of three members (the Thesis Committee) recommended by the Geology Graduate Program Chair and officially appointed by the Dean of Graduate Studies through the application for candidacy. The thesis must be approved by each member of the committee, and each member must sign the title page certifying that the student has completed his/her thesis.
6. The thesis must be filed with the Office of Graduate Studies in proper format. For instructions and filing dates see the website: <http://gradstudies.ucdavis.edu>
7. The Normative Time to Degree for the Geology M.S. program is six quarters (two years).

DEPARTMENT REQUIREMENTS:

1. **Courses.** M.S. students must undertake a program of a *minimum* of **6** courses (for at least 15 units). The classes should be selected to provide breadth of knowledge appropriate for a M.S., and to provide the depth of knowledge appropriate in a student's specialization(s). Classes must be selected in consultation with the Advisory Committee, and can include classes in geology or other fields deemed appropriate by the Committee. Classes may be upper-division or graduate level, in the Department of Geology or in a different department.
2. **Breadth Requirement.** The courses selected for #1 (above) must include at least one graduate-level course from three different categories of the six sub-disciplines listed below. These three classes must all include an oral presentation by the student, and be 3-unit courses at the 200-level:
 1. paleontology: 260 261, 262
 2. sedimentology/oceanography: 205, 206, 226, 228, 232
 3. structure/tectonics: 214, 216, 218, 219, 220, 296
 4. petrology/geochemistry: 227, 246, 247, 250, 251, 253, 254, 255, 281N, 285
 5. environmental geology/geomorphology/resources: 230, 235
 6. geophysics: 217, 219, 236, 238, 240, 241, 242, 295

Certain courses, but not all, may be taken more than once for credit; check the UCD course catalog. GEL 298 (Group Study) courses taken for 3 units may be taken more than once for credit if on different topics.

3. **Prospectus.** By the 6th week of the third quarter in residence, the student must submit a prospectus

for his/her thesis research. The prospectus text will not exceed **10** typed **double-spaced** pages (figures and references can exceed the 10-page limit) and must include the following elements:

- i. Summary/Abstract
 - ii. Statement of problem to be investigated.
 - iii. Background; why the problem is important.
 - iv. Methods used to investigate the problem.
 - v. Discussion; relevance of possible results to the solution of the problem.
 - vi. References.
4. **Prospectus Meeting.** After completion of the prospectus and before the end of the third quarter, the student will meet with a committee composed of one Graduate Advisor, the Thesis Advisor, and one “expert” in the field of research. Together, they will discuss the prospectus, the proposed research, its suitability for a M.S. thesis, and the ability of the student to complete the proposed research. M.S. thesis research should be more limited in scope than Ph.D. research, with a reasonable expectation of completion in two years. This meeting can have the following outcomes:
- i. The student is encouraged to proceed with his/her M.S. research.
 - ii. The student may be asked to take additional courses.
 - iii. The student may be asked to modify the proposal or proposed research. The revised proposal will be submitted by the student and reevaluated by the committee.
 - iv. The student may be recommended for disqualification from the program. This recommendation may be appealed to the Graduate Advisors and a final appeal may be made to the Dean of Graduate Studies.

Once approved, a copy of the prospectus with signed cover sheet should be submitted to Graduate Program Assistant.

COMPLETION OF THE M.S. DEGREE

Thesis. The thesis may be written in one of two formats: (1) thesis format, with chapters, and appendices to archive data; or (2) manuscript format, intended for submission for publication in a professional journal in the student’s field of research. As a guideline, one manuscript usually suffices to represent a new scientific contribution to fulfill the M.S. thesis requirement in the UCD Department of Geology. The manuscript does not have to be published, or submitted for publication prior to the granting of the degree. It must, however, be in a form approved for submission by the Thesis Committee. The student should discuss the format of the thesis with the Advisory Committee members early in the process prior to submittal of drafts for review and evaluation, and all should agree on a schedule of draft submittals and revisions, before drafts are submitted. Note, university policy gives one month for faculty to complete and return comments on a thesis draft.

The following steps must be completed in order.

1. **Draft approval.** The thesis must be approved by each member of the Thesis Committee. Approval can consist at this stage of either a signature on the title page, or verbal approval of the text of the latest thesis draft. It is the student’s responsibility to ensure communication among all members of the Thesis Committee as to the approval status of the other members.
2. **Exit seminar.** The student must present a public departmental seminar on the results of their research before a final draft can be accepted. The exit talk can be scheduled after the thesis draft is approved. The student must arrange to reserve a room for the exit talk with the Geology Graduate Program Assistant (GPA), ensuring that she is aware that the exit talk is taking place, and where and when. The exit talk should be presented during the academic year, if possible.
3. **Final approval.** Final acknowledgment of completion of all M.S. degree requirements is required by all members of the Thesis Committee in the form of a signature on the title page. Both the GPA and

the Chair of the Geology Graduate Program must be notified once all signatures have been obtained, following completion of the exit talk.

[Students wishing to complete a Ph.D. in the GGP after completion of their M.S. degree must at this point obtain signatures and file a Petition for Change of Graduate Degree Objective with the Registrar, before submitting the thesis to Graduate Studies for conferral of the M.S. degree.]

The thesis must be submitted as a single, electronic PDF to the Office of Graduate Studies. A permanently bound copy of the thesis must be presented to the department. Reproducible copies of all plates must also be deposited in the department. Instructions for electronically filing your thesis or dissertation (ETD) and formatting guidelines are available online at <http://www.gradstudies.ucdavis.edu/students/electronicfilinginstructions.html>

4. **M.S. degree can be conferred.** Exceptions to this schedule of events can be made, rarely, to accommodate unforeseen extenuating circumstances; the student should consult with the Chair of the GGP in this case.

Thesis Collection. A thesis collection of samples, software and/or maps to be deposited in the Department *may* be required by the Thesis Committee.

Master's degree candidates must complete their degree requirements within four calendar years of entering the Graduate Program in Geology.



PH.D. STUDENTS

Graduate students who are pursuing a Doctorate degree in Geology must complete the following University and Department requirements.

UNIVERSITY REQUIREMENTS:

1. Students working toward a Doctorate must be registered and in University residence for a minimum of six full-time quarters (12 units each quarter).
2. Students must maintain at least a 3.0 grade point average (only courses in 100 and 200 series and with A, B, C, or S count toward the GPA and the course requirements).
 1. Students must complete 72 units of coursework at the graduate and upper division *levels*. Of these, at least 12 must be graduate courses in the major subject. Geology 290, 298 and 299 are counted toward this requirement. (see below for Department's course requirements.)
3. Upon satisfaction of *all* departmental requirements, and having maintained a 3.0 average, the student may apply for the Qualifying Examination. The application should be filled out by the student and signed by the Geology Graduate Program Chair. It should be submitted to the Office of Graduate Studies at least *six weeks* prior to the examination date to allow all committee members to be notified. The committee normally consists of five members (see **THE POWERS THAT BE** for the qualifications required for membership). At least one member must be appointed from outside the Department of Geology. The application can be downloaded at: <http://gradstudies.ucdavis.edu/forms>
4. The Qualifying Examination (see **DEPARTMENT REQUIREMENTS** for a brief description) can have three outcomes:
 - a. Pass;
 - b. No pass with the option to retake all or part of the examination within a specified time period, or to satisfy specific requirements;
 - c. Fail.
5. Upon successful completion of the Qualifying Examination, the student must apply for Advancement to Candidacy for the Ph.D. degree.
6. A doctoral student has *4 calendar years* after the date they pass their Qualifying Exam to submit a satisfactory dissertation.
7. The Normative Time to Degree for the Geology Ph.D. is twelve quarters (four years).

DEPARTMENT REQUIREMENTS:

1. **Courses.** Ph.D. students must undertake a program that includes a *minimum* of 9 technical courses (for at least 25 units) *prior* to taking their Qualifying Examination. The classes should be selected to provide breadth of knowledge appropriate for a Ph.D., and to provide the depth of knowledge appropriate in a student's specialization(s). Classes must be selected in consultation with the Advisory Committee, and can include classes in geology or other fields deemed appropriate by the Committee. Classes may be *upper-division or graduate level*. (*Note:* a student with prior M.S. degree may include up to 4 courses from their M.S. work to fulfill the requirements for 4 of the 6 non-breadth courses. In addition, a student who completed their M.S. at UCD in Geology may also include up to 3 breadth courses taken during their M.S. work.)
2. **Breadth Requirement.** The courses selected for #1 (above) must include at least one graduate-level course from three different categories of the six sub-disciplines listed below. These three classes must all include an oral presentation by the student, and be 3-unit courses at the 200-level:
 1. paleontology: 260 261, 262
 2. sedimentology/oceanography: 205, 206, 226, 228, 232

3. structure/tectonics: 214, 216, 218, 219, 220, 296
4. petrology/geochemistry: 227, 246, 247, 250, 251, 253, 254, 255, 281N, 285
5. environmental geology/geomorphology/resources: 230, 235
6. geophysics: 217, 219, 236, 238, 240, 241, 242, 295

Certain courses, but not all, may be taken more than once for credit; check the UCD course catalog. GEL 298 (Group Study) courses taken for 3 units may be taken more than once for credit if on different topics.

3. **Prospectus.** By the 6th week of the third quarter in residence, the student must submit a prospectus for his/her dissertation research. The prospectus will not exceed *10* typed *double-spaced* pages (figures and references can exceed the 10-page limit) and must include the following elements:
 - i. Summary/Abstract.
 - ii. Statement of problem to be investigated.
 - iii. Background, why the problem is important.
 - iv. Methods of investigating the problem.
 - v. Discussion; relevance of possible results to the solution of the problem.
 - vi. References.
4. **Prospectus Meeting.** After completion of the prospectus, before the end of the 1st year in the program, the student will meet with a committee composed of one Graduate Advisor, the Dissertation Advisor, and one “expert” in the field of research. Together, they will discuss the prospectus, the proposed research, and the ability of the student to complete the proposed research. This meeting can have the following outcomes:
 - i. The student may be encouraged to expand the prospectus into a formal Ph.D. dissertation proposal.
 - ii. The student may be required to modify and resubmit the prospectus for reevaluation by the committee.
 - iii. The student may be required to proceed toward a M.S. degree prior to continuing in the Ph.D. program. His/her suitability for the Ph.D. program will be reconsidered upon the successful completion of the M.S. degree.
 - iv. The student may be asked to leave the Graduate Program.

Once approved, a copy of the prospectus, signed cover sheet and proposal should be submitted to the Graduate Program Assistant.

5. **Proposal.** *No later than* the end of the summer prior to the 7th quarter in residence, the student is to submit a formal National Science Foundation-style proposal (<http://www.nsf.gov>) for Ph.D research. The proposal text will not be longer than *15* single-spaced pages and *must* be approved by *each* member of the Advisory Committee. The student should submit the proposal for review by the committee *well in advance* (4-8 weeks) of the Oral Qualifying Examination (see #6 below). Approval of the proposal must be received *30 days prior to the scheduled exam date*. The proposals must have the following elements:
 - i. Summary.
 - ii. Introduction, statement of the problem, why it is important, and previous work.
 - iii. Proposed methods, how methods will allow the student to investigate the problem.
 - iv. Research plan, including a timetable.
 - v. Discussion, relevance of possible results to the solution of the problem.
 - vi. Extensive references.

Approval of the proposal by the Advisory Committee indicates that they agree that the scientific

questions posed by the student are appropriate at the Ph.D. level, that the research strategy is well founded, and that there is reasonable expectation that the Ph.D. research can be brought to a successful conclusion. Approval of the proposal indicates that it is defensible in the student's Qualifying Examination.

6. **Qualifying Exam.** Upon satisfaction of all departmental requirements, and having maintained a 3.0 average, the student may apply for the Qualifying Examination. *By no later* than the end of the 7th quarter in residence, the student *must* take his/her Qualifying Examination (see University Requirements above). Normally, this is an oral exam, and will consist of a short presentation (less than 15 minutes) of the proposed research by the student, followed by a question-and-answer period. The student, in consultation with his/her Examination Committee, normally chooses at least three topics upon which he/she will be formally questioned. The examination typically takes about three hours. The student is strongly encouraged to discuss the topics with each of the committee members well before the exam. The university specifies three criteria by which the student is judged:
 1. Relevant portions of the student's previous academic record.
 2. Performance on specific parts of the examination.
 3. Overall evaluation of the student's performance and potential for scholarly research as indicated during the examination.

The student should remember that the Qualifying Examination will include a defense of the proposed research, including the problem, the methodology and the background.

Ph.D. students have 4 years from the date on which they pass their Qualifying Exam, to complete their dissertation.

7. **Teaching Assistantship.** Each Ph.D. student *must* serve at least one quarter as a Teaching Assistant in an undergraduate geology course offered by the Department. To qualify for a Teaching Assistantship, the student must take or have taken GEL 390, the T.A. orientation and writing course offered by the department. The TA orientation offered by CETL at the beginning of Fall and Winter quarters is also required.
8. **Completion of the Ph.D. degree.** The completion of the Ph.D. includes two main components: 1) a written dissertation and 2) a departmental seminar, followed by a closed-door defense with the Dissertation Committee (University Ph.D. Degree Plan C). The minimum time constraints for each component, described below, will be strictly adhered to by the Dissertation Committee. Ph.D. students must complete all degree requirements within four calendar years (12 quarters), regardless of their enrollment status (including quarters on Filing Fee, PELP, and no enrollment), following their passing the oral Qualifying Exam.

1. **Dissertation:**

- The dissertation may be written in one of two formats: (1) dissertation format, with chapters, and appendices to archive data; or (2) manuscript format, intended for submission for publication in a professional journal in the student's field of research. As a guideline, three manuscripts usually suffice to represent new scientific contributions to fulfill the Ph.D. dissertation requirement in the UCD Department of Geology. The three manuscripts must evidence a coherent and unified intellectual effort by the doctoral student; three unrelated manuscripts on different topics will not suffice. They must, however, be in a form approved for submission by the Dissertation Committee. The student should discuss the format of the dissertation with the Advisory Committee members early in the process prior to submittal of drafts for review and evaluation, and all should agree on a schedule of draft submittals and revisions, before drafts are submitted. Note, university policy gives one month for faculty to complete and return comments on a thesis draft.
- At the beginning of the anticipated final year of the Ph.D. the candidate *must* schedule

an Annual Advisory Committee Meeting to evaluate the current status of the dissertation research and to determine if a one-year time line is realistic for completion of all Ph.D. requirements.

- *Prior* to scheduling the departmental seminar and dissertation defense date, the Ph.D. candidate must confer with the Dissertation Committee to determine the expected completion date. In most cases, *this will require submitting a complete draft of the written dissertation to the Dissertation Committee*. A *complete* draft of the dissertation is typically one that has gone through at least one round of review/revision between the dissertation advisor and Ph.D. candidate.
 - A minimum of two weeks before the dissertation defense and departmental seminar, a complete and *defendable* dissertation *must* be submitted to the Dissertation Committee for review. At this time the departmental seminar and dissertation defense date is scheduled. A *defendable* dissertation is one that has gone through (probably) multiple rounds of review and revision between the dissertation advisor and Ph.D. candidate.
 - The dissertation *must* be filed with the Office of Graduate Studies in the proper format. Instructions and dates for electronically filing your thesis or dissertation (ETD) and formatting guidelines are available online at <http://gradstudies.ucdavis.edu/students/electronicfilinginstructions.html>. The student *must* deliver a permanently bound copy to the Department of Geology, complete with reproducible copies of all plates. A dissertation collection of samples and/or maps to be deposited with the Department may be required by the Dissertation Committee.
2. **Departmental Seminar:** All students completing a dissertation for the Ph.D. degree *must* present a public departmental seminar on the results of their work before the final dissertation can be accepted.

Dissertation Defense: The dissertation defense follows the public departmental seminar and is a closed-door oral examination by the Dissertation Committee of any aspects of the research. Students admitted prior to July 2009 can opt to abide by the defense requirement should they choose, but are not required to do so. The possible outcomes of the dissertation defense are:

1. Dissertation defense is certified as is. All members of the committee sign the dissertation.
2. Dissertation requires minor revisions. All members of the committee sign the dissertation except the committee chair. The student completes the revisions and then obtains the signature of the committee chair when revisions are accepted.
3. Dissertation requires major revisions. The student is given one year to complete the revisions and is required to schedule a new dissertation defense date.

DEPARTMENT FACILITIES

A range of equipment and services are available within the Department of Geology for use by graduate students. Their primary function is to aid students in their research, whether it involves chemical analyses, thesis and manuscript preparation, or transportation. Several of the services are available on a recharge basis, so please check the latest rates. See: <https://www.geology.ucdavis.edu/department/facilities.html>

XEROXING:

The Department of Geology houses a large, high-volume copying machine in the small room adjacent to the main office. It is available for class-related copying. You will need a copy card (a small plastic card) to run the machine. You can pick up the teaching copy card from the main office when you want to xerox course materials.

Personal copying in the department is not available. The closest coin operated copier is in the Physical Sciences Library. Information about copying services in the library is on their web site, <http://library.ucdavis.edu/all/services/copyprint.php>



MAILING AND SUPPLIES:



Students needing paper, pens, overhead transparencies, etc. (for teaching purposes only) can acquire these materials directly from the main office. Mail is delivered and picked up in the Department mail room once daily. If you have outgoing mail, put it in the canvas bag. The department does not pay for shipping or mailing unless it is for teaching or administrative purposes.

No personal mail can be placed in the campus mail, even if it is stamped.

SAMPLE PREPARATION:

There are a number of rock preparation facilities available in the Department. The most commonly used facility is the thin-section preparation lab which is available to all graduate students. There are several specialized labs (i.e., microfossil processing, heavy mineral separation, etc.); for access, see the major professor involved in overseeing projects in those labs.



GRAPHICS PREPARATION:



Janice Fong is the full-time illustrator and webmaster in the Department. She is available to graduate students for consultation in preparation of both traditional and computer graphics for theses, slide presentations, manuscripts, poster sessions and web pages. She can answer your questions about various computer graphics and web design programs, and she also provides technical support for poster printing.

PHOTOGRAPHY:

Please see Janice Fong for general questions concerning image editing programs and referrals to campus photography services.

COMPUTER FACILITIES:

Besides the campus computer labs that are available for general student use, the Department has a local area network of a wide variety of computers (collectively known as GEONET) available to graduate students, undergraduate students as well as faculty and staff. Paul Waterstraat is the Department's system manager; Kengshi Yang is Paul's assistant and the Department's computing resource specialist. They can provide you with information about the various computer systems. You are expected to abide by the campus acceptable use policy when using these computers. See: <http://manuals.ucdavis.edu/ppm/310/310-23.htm>. In addition, any computer used on the network, including your own, must abide by the Campus Cyber Safety Program. See: <http://manuals.ucdavis.edu/ppm/310/310-22.htm>. Additional information about configuring your computer can be found at <http://security.ucdavis.edu/cybersafety.cfm>.



details.

The most commonly used computers in the Department are Macintosh computers. Computers that are routinely available to graduate students are those that are in room 2231. The Macs have many applications for word processing (e.g. MS Word), spreadsheets, graphics and data analysis. Some Macs are also equipped with scanners, digitizers, image capture equipment and seismic digitizing equipment; see Paul or Kengshi for

ANALYTICAL FACILITIES:

The Department houses most of the analytical facilities that you might need during your graduate study. All of these facilities require prior instruction before you will be allowed to use them. If you think that you may be using these facilities during your stay here, be sure to discuss your needs and possible training with Dr. Sarah Roeske.



The following instruments are available to graduate students: fully automated electron microprobe; x-ray fluorescence analyzer; x-ray diffractometer; atomic absorption spectrometer; stable isotope mass spectrometer; complete paleomagnetism lab; cathodoluminescent stage and fluid inclusion stages for petrographic microscopes; and high pressure experimental petrology and rock deformation equipment.



Any student wishing to use the above equipment and facilities should seek the approval of the faculty member overseeing its operation. The student and/or his advisor is expected to find or attempt to find funding for the use of the analytical equipment.

ROCK STORAGE:

The Department makes an effort (but not a guarantee) to provide a Lane cabinet to each student for storage of samples. Greg Baxter oversees the distribution of keys to these cabinets.

MAPS:



The Department has a limited collection of geologic and topographic maps available for graduate student use. Most of the topographic maps cover California, while the geologic maps are global. See Julia Prather for access to these maps.

FINANCIAL SUPPORT FOR GRADUATE STUDENTS

During your stay at UC Davis you should attempt to find financial support. You have a number of sources available to you and the Department encourages you to apply to these sources. Here, we have listed Departmental, University, and extramural sources for your benefit. It is the desire of the Department of Geology that all students receive full support during their stay at UCD, *although this cannot be guaranteed.*



DEPARTMENTAL SUPPORT:

The Department of Geology can provide financial support to students in the form of Graduate Student Research Appointments and Teaching Assistantships. Requirements for hiring of GSRs and TAs are given on page 23.

Graduate students who are US citizens, permanent residents or immigrants are required to file a “Free Application for Federal Student Aid” (FAFSA), or a renewal, every year: <http://www.fafsa.ed.gov/>. It is strongly suggested that you file by the priority processing date of March 2. This form, submitted directly to the Federal Student Aid Program Office, Iowa City, Iowa, is used to determine financial need only. Financial need is a component of the eligibility criteria for many fellowships, and for all forms of federal financial aid.

- **Teaching Assistantships:**



Teaching Assistantships are awarded to students on the basis of qualifications as a teaching assistant and their progress toward their degree. A Teaching Assistant is assigned to a specific class, and in general the student is expected to work 20 hours per week. Typical duties include organizing and teaching laboratories or discussion sections for classes, grading papers and assisting with field trips. A call for TA applications is sent by the Graduate Advisors during Spring quarter.

Teaching Assistants are considered to be Academic Student Employees (ASE) for the quarters in which they TA. As such, your employment is covered by a collective bargaining agreement between the University and the United Auto Workers. That is to say, you're in a union. See: http://atyourservice.ucop.edu/employees/policies_employee_labor_relations/collective_bargaining_units/academicstudentemployees_bx/agreement.html



- **Graduate Student Researchers:**

GSR support may be provided by individual faculty members. Funding comes from research grants and the GSR is expected to work on research related to the grant. Students may receive GSR support from their Faculty Advisors and discuss the requirements and terms of the assistantship with the faculty member in charge.

- **Research Support:**

The Department has a small reserve of funds (known as the Durrell Fund) available to help offset research costs accrued by students in their thesis or dissertation research. Typical amounts awarded are from \$500 to \$2,000. The student is expected to have applied to all appropriate external and University sources before applying to the Department for research support. The Department will make a decision on internal funding during Spring Quarter. Instructions for applying for these funds will be sent to you during Fall quarter.



UNIVERSITY AND EXTRAMURAL SUPPORT:

Many sources of funding exist, both within the University and outside the University, for which you may apply to support yourself and your research. If you qualify, it is well worth your time and effort to apply for these funds, because they are often not well advertised and the competition is frequently less fierce than you might imagine. The following Graduate Studies website provides extensive information on fellowships and graduate scholarships available to both new and incoming graduate students: <http://gradstudies.ucdavis.edu/ssupport/>



THE ROLE OF GRADUATE STUDENTS IN THE DEPARTMENT OF GEOLOGY

Graduate students are not merely in the last stages of their formal education. More importantly, they are in the first stages of their scientific careers. Therefore, they must be viewed, and must view themselves, as professional colleagues to the faculty and the staff in the Department of Geology. With this comes all the rights and responsibilities of a professional in the Department. This short section reviews those rights and responsibilities and outlines how graduate students can address any grievances they may have.



THE RIGHTS AND RESPONSIBILITIES OF THE GRADUATE STUDENT:

The graduate student has her or his responsibilities and rights spelled out in the Graduate Student Bill of Rights and Responsibilities (http://gsa.ucdavis.edu/graduate_student_bill_of_rights) issued by the Graduate Student Association and endorsed in principle by the UCD Graduate Council and the Office of Graduate Studies. Below, we restate some of the more essential rights and responsibilities. This list is not complete, and students should read the Bill of Rights and Responsibilities for a complete list and more details.

RIGHTS:

1. A graduate student has a right to be respected as a person of merit and a colleague upon gaining admission to a graduate program.
2. Graduate students have a right to specific and concrete requirements for achieving an advanced degree. In Geology, these requirements are explicitly spelled out in the Geology Graduate Student Handbook.
3. Graduate students have a right to an accurate description of the availability and likelihood of financial and resource support.
4. A graduate student has a right to regular guidance and feedback concerning her or his academic performance. Evaluation of her or his performance is to be objective and based on criteria that are understood by both student and advisor.
5. A graduate student has a right not to be discriminated against because of his or her gender, race, age, sexual orientation, disability, or religious or political beliefs.
6. A graduate student has a right to work in a non-threatening, non-hostile environment, and has a right to decline unwanted intimate interaction with his or her fellow students, staff or faculty.
7. Graduate students have a right to reasonable confidentiality in their communications with professors.
8. Graduate students have a right to refuse to perform tasks if those tasks are not related to their academic or professional development program.
9. Graduate students have a right to authorship or co-authorship based on the guidelines put forth by the Graduate Council.
10. Graduate students have a right to expect that the Department will incorporate student representatives in decisions affecting them. A graduate student representative is present at faculty meetings. (However, students are excluded from meetings that discuss personnel issues and confidential student information).
11. A student has a right to assert these and other rights, or to seek clarification about them, without fear of recrimination or retribution.

RESPONSIBILITIES:

1. Students have a responsibility to conduct themselves, in all education and professional activities, in a matter befitting an academic colleague. Graduate student's behavior should be a credit to themselves, the Department, and the University.
2. Students have a responsibility to devote an appropriate amount of time and energy toward achieving an advanced degree within "normative time", except when special circumstances apply.
3. Graduate students have a responsibility to take the initiative in learning the Department's academic requirements and financial aid opportunities. For the most part these can be found in the Geology Graduate Student Handbook.
4. Graduate students have a responsibility to provide accurate and honest reporting of research results and to uphold ethical norms in research methodology and scholarship.
5. Graduate students have a responsibility to participate in the campus community to the extent that each is able.
6. Students have a responsibility to uphold the public service mission of the University.
7. Graduate students have a responsibility to behave in a respectful way toward their colleagues (fellow students, faculty and staff). They will avoid creating a hostile environment in their interactions.



WHAT TO DO IF YOU ARE HAVING PROBLEMS WITH INDIVIDUALS, DEPARTMENT POLICIES, OR THE UNIVERSITY

MEDIATION SERVICES AND GRIEVANCE PROCEDURES:

On occasion, a student may find herself or himself in a dispute or difficulty with another individual (faculty, staff, or student), or with a Department policy. The student has a right to address these disputes and to make an effort to have them resolved. Below we have recommended procedures for addressing graduate student complaints and grievances. Students must be aware that, when their complaints result in a formal personnel action against a staff or faculty member, rules of confidentiality may apply that prohibit the student access to some information about their dispute. This can be very frustrating. Please see: <http://gradstudies.ucdavis.edu/students/handbook>, <http://gsa.ucdavis.edu>, and <http://mediation.ucdavis.edu/>

WE RECOMMEND THE FOLLOWING SEQUENCE OF PROCEDURES IF YOU FIND YOU HAVE A GRIEVANCE AGAINST AN INDIVIDUAL.

1. Discuss the problem with the individual. You have the right to such a discussion without fear of retribution. Quite often disputes or grievances arise from simple misunderstandings. At other times, problems come about because of inadvertent insensitivity by one of the principals. In either case, the problems can be simply and even pleasantly cleared up between the two involved individuals.
2. Sometimes a dispute cannot be resolved between the principals. Or the student does not feel comfortable confronting the individual alone. If so, the student may discuss the problem with one of the Graduate Advisors. The student has the right to a confidential and objective review of the problem with the Advisor. Such a discussion can include informal and more formal characteristics.
 - In an informal discussion, the student can request total confidentiality, and the Graduate Advisor must respect that request (within limits set forth in the Policies and Procedures Manual of the University). The Graduate Advisor can offer opinions about the seriousness of the problem, its solution, and what the student should do next. At this stage the Advisor is not obligated to take any particular action, but must protect the confidentiality of the situation and must make an objective evaluation of the problem.
 - In a more formal discussion, the Advisor is requested to take some action, such as confronting the antagonist on behalf of the student, bringing the issue to a faculty meeting, or forwarding the issue to the administration. The Advisor may discuss the issue with other Graduate Advisors or the Department Chair, provided that none of them are principals in the dispute. The student has the right to request a written response from the Graduate Advisor explaining what action the advisor has taken, and why she or he has taken it. Under most circumstances the student can request this response within one week.
3. If the student is dissatisfied with the response of the Graduate Advisor, or if the authority of the Graduate Advisor is not sufficient, the student has a wide variety of options. If appropriate, the student may request a meeting with the Department Chair. The student has a right to a written response from the Chair about what action he or she has taken, and why he or she has taken it. Under normal circumstances the student can request this response within one week.
4. After, or instead of, the Department Chair, the student has the right to pursue a grievance in a number of ways. He/she may go to the Graduate Student Association at 752-6108. Alternatively, or in addition, the student may wish to confer with a number of individuals or offices for help with specific problems. Specific examples of avenues for graduate students include:
 - Grievances about the Graduate Program, Graduate Advisors, and general academic issues should be referred to Associate Dean, Office of Graduate Studies, 250 Mrak Hall, 752-0650.
 - Concerns about sexual harassment should be forwarded to Lisa Brodkey, Director, Sexual Harassment Education Program, 752-9255. Complaints should be made promptly because time limits exist for some types of complaints and responses. If a student formally reports an incident of sexual harassment, the Program must make an official inquiry. However,

students may make confidential inquiries by making an anonymous call to the Sexual Harassment Information Line (752-2255).

In general, a student's stay in graduate school should be a scientifically challenging, enjoyable experience, albeit one that occasionally causes frustration and stress, in which disputes between the student and others may arise. While these disputes often are easily resolved, they should not be left to fester over long periods of time. The student has a right to seek a solution so that normal progress can be made toward a degree and a fruitful, productive graduate career can result.

DEPARTMENT OF GEOLOGY COLLECTIONS POLICY

The collections are available for use by anyone in the Department: faculty, staff, graduate, and undergraduate students. The collections consist of rocks, minerals, fossils, and maps, and are used primarily for teaching and exploratory research projects. Most of the collections are in locked cabinets located in various places throughout the department (see below). Keys to open these cabinets will be issued to anyone who has a good reason for using the collections (TAs, GSRs, for senior theses, etc.).



REMOVAL OF SPECIMENS:

Please use the collections. Browsing through the cabinets is fine, as is removing specimens temporarily for a class period (for example) as long as everything that is removed from the drawers for whatever reason is replaced immediately. If you must remove a specimen for longer than a few hours, please tell Sandy Carlson (fossils)/Greg Baxter (rocks) or leave them a note or an e-mail message with the following information:

1. your name
2. the date
3. the name and number of the specimen
4. where the specimen will be located outside its place in the collections.

Please use the collections *responsibly*. Specimens that are not replaced immediately are easily lost or stolen. The department *does not* have help with the day-to-day maintenance of the collections to put away what *you* have taken out.



If you have specific needs for teaching or can't find what you need, please ask.

THE COLLECTIONS:

- **Rocks:** Igneous and metamorphic rocks are organized by rock type. "HC" or "TM" keys will open the cabinets. Sedimentary rocks are organized by rock type and are stored in Haring Hall. Most cabinets are unlocked, or will open with the "TM" key.
- **Minerals:** The minerals are organized systematically. The cabinets open with a "TM" or "MM" key.
- **Fossils:** The fossils are organized systematically. The Lane cabinets will open with the "C415A" key; wooden cabinets will open with the "TM" key.
- **Maps:**
 - **Geologic** - Flat-file and roll maps may be removed only for teaching purposes. Drawer labels are more or less accurate. Feel free to browse through them, but please treat the maps carefully and keep them as organized as possible.
 - **Topographic** - The department owns two more or less complete sets of California 7.5' and 15' topographic maps. The Master File is housed in two yellow map cabinets and are to be used in the department only. They may be copied in the Geology office, but are *NOT* to be removed from this immediate area. The Check-out file is housed in two grey map cabinets. The keys to open these cabinets are located in the Main Office. *Please do not use these cabinet tops as storage surfaces for course materials!*

MAP CHECK OUT:

To find out if the department has the map you need, look in the drawer labeled "Map Inventory" in the filing cabinet. Two brown booklets located in the drawer contain a list of the maps in our collection. If you need a visual aid to determine which maps you need, a reference map of California is folded up in this drawer.

TO CHECK OUT A MAP:

1. get the map cabinet keys from Julia Prather
2. find the map you want



3. in the cabinet, leave a note that includes:
 - your name
 - the name of the map you checked out
 - the date you checked it out
4. relock the cabinet
5. return the key

*All maps that are removed from the locked cabinets, flat-files, filing cabinets, wall brackets, or roll map boxes ***MUST*** be replaced by the person who removed them.* We do not have sufficient personnel to refile maps for you.

If the department does not have the map you need, Shields Library has a complete set of both 7.5' and 15' (most recent and older) topographic maps for California, and virtually complete sets for Nevada, Arizona, Hawaii, Alaska, and several other states. These maps may be checked out from the library. If you want to purchase your own topographic maps, go to REI (<http://www.rei.com>) in Sacramento or contact the USGS (<http://www.usgs.gov>) directly.



TEACHING ASSISTANTS AND GRADUATE STUDENT RESEARCHERS IN THE DEPARTMENT OF GEOLOGY, UC DAVIS

When graduate students are admitted to the Department of Geology, they are offered a graduate support package. It includes a description of their first year's support (normally 3 quarters). This support may take the form of fellowships, GSRs and/or Teaching Assistantships. Furthermore, we guarantee continued support at the same level for some number of succeeding years. Continued support is contingent upon the student's successful progress toward a degree, and upon the availability of funds within the Department. Our ability to make and honor these commitments is crucial to our recruitment and retention of outstanding students.

REQUIREMENTS FOR HIRING TEACHING ASSISTANTS:

All applicants are expected to meet the following requirements in order to be Teaching Assistants (TAs) in the Department of Geology. Under some circumstances, such as an unanticipated need by the Department, the Graduate Advisors may waive one or more of the requirements.

1. TAs must be enrolled as graduate students at the University of California, Davis. Students must meet all of the criteria for hiring by the University, and be in good academic standing. TAs must be enrolled for a minimum of 12 units.
2. TAs must have completed the University's TA orientation program in the beginning of Fall and Winter quarter of their first year.
3. Teaching Assistants must have completed, or will be enrolled in, the Department's TA Training course (GEL 390).
4. TAs must be qualified for the subject they will be teaching. This qualification can be demonstrated by one or more of the following:
 - i. A Bachelors degree in Geology.
 - ii. A knowledge of the field through prior work or academic experience.
 - iii. Prior enrollment in the course or its equivalent.



REQUIREMENTS FOR HIRING GRADUATE STUDENT RESEARCHERS:

Graduate Student Researchers (GSRs) are almost always employed on a research grant or contract, under the direction of the Principal Investigator (P.I.) of that grant or contract. Therefore, the decision to hire a GSR is made by the P.I. All applicants are expected to meet the following requirements in order to be GSRs in the Department of Geology.

1. Must be enrolled as graduate students at the University of California, Davis. Students must meet all of the criteria for hiring by the University, and be in good academic standing. GSRs must be enrolled for a minimum of 12 units.
2. GSRs must be qualified to undertake the research tasks for which they are hired. This qualification may be demonstrated by their academic training and/or prior experience.

OFFICE OF GRADUATE STUDIES: FORMS

Many actions related to Graduate Study at the University require a form. Please take some time to skim the list of forms at the Graduate Studies website: <http://gradstudies.ucdavis.edu/forms>

Geology Graduate Program, Masters (Plan I) – Quick Reference

Courses

- 30 units of course-work (university requirement) including ≥ 12 units of research (GEL 299)
- 6 courses for ≥ 15 units, geology or other discipline; 100- or 200-level.
- 3 of which must be breadth courses; 3-unit 200 level; 1 from each of 3 different subdisciplines.

	Course Number	Course Name	Units	Requirement	Quarter
	UCD Req.	CETL two-day TA training	-	Required	
	GEL 390	Geology TA/Writing Course	2	Required	
	GEL 290	Wednesday Seminar	1	Required	
1				Breadth	
2				Breadth	
3				Breadth	
4				General	
5				General	
6				General	
7				Units	
8				Units	
9				Units	
10				Units	
11				Units	
12				Units	
		Total Number of Units			

Research

Requirement	Due Date	Completion
Prospectus Document	6th week of 3rd quarter	
Prospectus Meeting	before end of 3rd quarter	
Final Draft of Thesis	before end of 6th quarter	
Exit Seminar	scheduled after thesis draft is certified	
Thesis Collection	Before thesis is signed by faculty advisor	
Department Final Checklist	Before thesis is signed by faculty advisor	
Final Thesis	Submit permanently bound copy to dept.	

Meetings

Requirement	Due Date	Completion
First- year Meeting	Before first quarter	
Continuing Student Meeting	Beginning of winter quarter, year 1 & 2	
Prospectus Meeting	before end of third quarter, year 1	
Advisory Committee Meeting	before end of third quarter, year 2	

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Geology Graduate Program, PhD (Plan C) – Quick Reference

Courses

- 72 units of course-work (university requirement) including ≥ 12 units of research (GEL 299).
- 9 courses for ≥ 25 units, geology/other discipline; 100- or 200-level (count up to 4 from MS).
- 3 of which must be breadth courses; 3-unit 200 level; 1 from each of 3 different subdisciplines.

	Course Number	Course Name	Units	Requirement	Quarter
	UCD Req.	CETL two-day TA training	-	Required	
	GEL 390	Geology TA/Writing Course	2	Required	
	GEL 290	Wednesday Seminar (pre-cand.)	1	Required	
1				Breadth	
2				Breadth	
3				Breadth	
4				General	
5				General	
6				General	
7				General	
8				General	
9				General	
		Total Number of Units			

Research

Requirement	Due Date	Completion
Prospectus Document	6th week of 3rd quarter	
Prospectus Approval	before end of 3rd quarter	
Dissertation Proposal	before end of 7th quarter	
Qualifying Exam	before end of 7th quarter	
Final Draft of Thesis	before end of 6th quarter	
Exit Seminar/Defense	scheduled after thesis draft is certified	
Thesis Collection	Before thesis is signed by faculty advisor	
Department Final Checklist	Before thesis is signed by faculty advisor	
Final Thesis	Submit permanently bound copy to dept.	

Teaching Assistant

- Must serve at least one quarter as a teaching assistant (list first quarter): _____

Meetings

Requirement	Due Date	Completion
First-year Meeting	Start of first quarter	
Prospectus Meeting	Start of 3 rd quarter	
Continuing Student Meeting	Winter Quarter	
Advisory Committee Meeting	Spring Quarter	