

Department of Geology

Graduate Handbook

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Personnel

Department Head	Paul Schroeder
Associate Department Head	Adam Milewski
Graduate Coordinator	Alberto Patiño
Business Manager	Rachel Ashton
Degree Program Assistant	Ashley Arnold
IT Support Coordinator	Michael Lewis
Administrative Assistant	Catherine Moore

General Information

It is your responsibility as a graduate student to read and know the policies in this handbook and the Graduate School Bulletin.

Purpose and Goals

The primary aim of the graduate program is to produce professional geologists with a sound grasp of current scientific problems and a strong technical background. We also hope to develop in these geologists the skills and motivation for continued learning that will permit definition and solution of new scientific problems during their professional careers.

Proper pursuit of academic and career goals demands that time in graduate school be spent efficiently. Early development of a coherent plan for your course work and research is imperative so that you may complete your degree requirements on time. Every effort should be made to insure that you are able to complete all requirements, including acceptance of the thesis or dissertation, before you leave campus to accept a job.

Upon graduating, you will likely go on to a position in industry, government, or academia. As you move into the mainstream of professional life, your reflections on the geology program at the University of Georgia will be most welcome. Your suggestions will aid us in developing a program that will remain at the forefront of geological science.

Faculty

You should become acquainted with the faculty, particularly in your area of interest, as soon as possible. Faculty will want to talk with you about their interests and possible research topics. The Department includes several committees of faculty to handle specific issues. Some of those that are particularly important for graduate students include the Admissions and Awards Committee, the Watts-Wheeler Committee, Graduate Curriculum Committee, and the Space and Facilities Committee. A complete list of all faculty committees with their current membership and responsibilities is available on request from the Geology staff.

Staff

The staff members of the Geology Department are vital to the smooth running of the department. A complete list of Departmental Staff can be found at the Department's website. Please consult with the Business Manager about individual staff responsibilities. Treat the staff with courtesy and they will do everything possible to help you.

Graduate Student Club

Graduate students in the Geology Department are drawn from a variety of schools representing all parts of the country. They have an active organization, Sigma Gamma Epsilon, which organizes field trips and various social gatherings to bring together students and faculty of the department. They also are involved in service projects such as new student orientation, preparation of lab kits, and providing employment contacts.

Social Events

During the year, the department will host several social functions, such as banquets, receptions, and picnics. We hope that you will make every effort to attend and enjoy the company of your fellow students and faculty.

Departmental Seminars

The Geological Sciences Colloquium is a weekly lecture, often given by a distinguished visitor, and is generally scheduled for Friday afternoon at 3:30 in room 200A of the Geography-Geology building. The date or time may occasionally be changed to accommodate the speaker's schedule. Graduate students should attend these seminars regularly, as part of their professional life. The topics of these lectures are usually of current importance and are an important means of broadening your geological education.

Facilities

General Equipment

As a professional, you should own your own hand lens, hammer, hard hat, safety glasses, a suitable compass for field work, and your own computer with software for word processing, spreadsheets, and graphics.

Research Oriented Facilities

Thin sectioning, rock crushing, and other sample preparation equipment is available for use in courses and research. The use of these facilities requires a brief orientation. Continued access to them is contingent on a record of their proper use. Those who fail to use equipment properly, clean up after themselves, or display a lack of safety will be denied use.

The Department maintains an electron microprobe, an X-ray diffractometer, and mass spectrometers for use by qualified students for research. See Chris Fleisher for use of the microprobe, Julia Cox for use of the mass spectrometers, and Dr. Schroeder for the use of the X-ray diffraction equipment.

Computing and Facilities

The University of Georgia has strict policies about the use of computers, which can be found at this link: http://eits.uga.edu/access_and_security/infosec/pols_regs/policies/aup and which will also be discussed during orientation by the IT Support Coordinator. E-mail fraud, privacy, and security are ongoing concerns and you should do all in your power to stay alert and avoid scams.

Students are individually provided with computers on their desks for University-related use. These computers are loaded with software licensed to the University and/or Department. If your work requires some other software contact the IT Support Coordinator for help. Under no circumstances should students attempt to install any software on their own.

Students, faculty, and staff have access to UGAMail, which allows the use of Webmail and IMAP e-mail. UGAMail users must comply with the UGA policies on computer use. Please note that UGAMail is the only email account used by the university for official correspondence. You must therefore check it regularly, as important messages may not be delivered to your personal email account.

Students also have access, for school-related work, to departmental computers in rooms 123, B22 and B27. The Geoscience Learning Lab (Room B27) is administered jointly by the Geology Department and the Geography Department, and is primarily a classroom for courses that require instructional computers. A calendar indicating when the classroom is in use is posted on the door of the lab and on the departmental website. Students are free to use the lab when it is not in use. Never interrupt a class in

progress. The door combination is changed each semester and can be obtained from the IT Support Coordinator.

A large-format printer capable of printing posters is located in Room 122. In order to access this printer you must consult with Dr. Adam Milewski ahead of time.

Individual faculty members have student-use computers with software applicable to their specialty. Details will be provided by your advisor.

Free downloads and software at discounted prices are available from the University's EITS website (www.eits.uga.edu).

Office Space, Mail, Keys, Phones, Copy Machines

Office Space

Office space for graduate students is a high priority within the department. Except in unusual situations of a space shortage, graduate students will receive space for an office. The Degree Program Assistant will assign this space.

Mail

You will be assigned a mailbox in the Geology Office. These boxes will be used for memos, notes from faculty, official departmental correspondence, as well as your professional correspondence. Since the boxes are small and may need to be shared, your personal mail should be delivered to your local address or post office box.

Keys

You should obtain an outside door key to the Geography-Geology building, a key to classrooms and general labs, and a key to your office space from the Geology office staff. Keys must be returned to the Geology office staff upon finishing your degree or before an extended leave of absence from the Department.

Telephones

A brief message can be placed in the student's departmental mail box for incoming calls on department lines. In the unlikely event that cell phone signal is not available, students who need to make important phone calls should check with the office staff.

Photocopiers

A photocopier is available in room 302 of the Geography-Geology building. All teaching assistants will be assigned a code for this photocopier, for use in copying lab assignments. The code is not to be used for personal use. For instructions on the use of the photocopier, ask a Geology office staff member. Photocopiers are available for personal use (including the printing of theses and dissertations) at the University Libraries and at the Tate Center

Employment

Anyone on a university payroll should see the Business Manager in the Department Office immediately upon starting employment and at the beginning of each year. The Business Manager will answer questions and handle administrative problems relating to employment at any time during the year.

Assistantships and Fellowships

The Department awards approximately 15 Teaching Assistantships each year. Recommendation for appointment of these is made by the Admissions and Awards Committee. Factors considered include, for incoming students, your prior GPA, GRE scores, and recommendation letters. For returning students, factors considered include your progress in the program, teaching effectiveness, and current GPA.

Teaching Assistantships are normally granted for one year. Continued support depends upon satisfactory performance in both teaching and degree progress, as determined by the annual evaluation. M.S. students are eligible for a maximum of two years of departmental support during the first three years following matriculation. Ph.D. students are eligible for a maximum of four years of departmental support during the first five years following matriculation. A student entering into the M.S. program and then changing degree objective to the Ph.D. without completing the M.S. degree will be eligible for a total of four years of departmental support the first five years following the original matriculation as a M.S. student. A student that first completes a M.S. degree at UGA and then enters into a Ph.D. degree program will be eligible for a maximum of four years of departmental support during the first five years following matriculation as a Ph.D. student. Any departmental support beyond these eligibility limits depends on the specific teaching needs of the department.

A Graduate Teaching Assistantship (GTA) is the most common type of support for graduate students in the Geology Department. These typically are 4/9s time and require 17 hours of service per week. This support comes from the University and is designed to assist in the delivery of the educational program. The GTA also offers graduate students the opportunity to gain teaching experience as part of their education.

GTA assignments are made by the Graduate Coordinator in consultation with the lecture instructors. Normally the assignments involve teaching laboratory sections of some courses. Other duties include coordinating large laboratories (GEOL 1121) and assisting lecture instructors. Graduate students with concerns about which classes they are qualified to teach should contact the Graduate Coordinator.

GTAs are expected to conduct themselves professionally. They are expected to fulfill their duties as assigned. If they are unable to meet any assignments (e.g., missing lab sections for personal or professional reasons), it is their

responsibility to arrange for a replacement and to notify the laboratory coordinator or lecture instructor of the substitute. GTAs are expected to make up any time missed from their assigned duties. Such make-up work will be assigned by the lecture instructor or laboratory coordinator in consultation with the Graduate Coordinator. GTAs that miss two or more obligations without securing a substitute instructor may have their assistantships terminated.

GTA duties may include lab preparation and may therefore begin before the first day of classes. Please consult with your supervisor about the requirements for your particular assignment and plan your return to campus accordingly. Every effort will be made to make teaching assignments as early as possible, and you can help in this by submitting your class schedule for each semester as soon as possible.

GTAs will be evaluated in the classes they teach. Lecture instructors will meet with the GTAs early in the semester to review their expectations and to go over GTA evaluations. GTAs will be evaluated by their immediate supervisors, that is, lecture instructors or laboratory coordinators. GTAs will also be evaluated by students in their classes at the end of each semester.

Other types of support such as Graduate School Assistantships (GSAs) and Research Assistantships (RAs) may be available. The Department nominates candidates for GSAs to a university-wide selection committee. These nominations are due very early in the Spring Semester. Most Research Assistantships are available through research grants to faculty members. The faculty member who obtains the grant controls the award of the Research Assistantship and makes an award based on a student's interest in pursuing a thesis problem related to the funded research, as well as the overall merit of the student. The duties of research assistants are prescribed by the faculty member administering the grant.

Part-time Employment

Hourly employment, that is, work paid by the hour and lasting for various lengths of time, is often available from the Department, from individuals with research grants, and from elsewhere in the University. Anyone interested in hourly employment should contact the Department Head or faculty with research grants.

A 4/9s time assistant is limited to a maximum of 4 additional hours per week from the University. Other awards and fellowships may restrict additional employment or prohibit it altogether. Be sure to check into such restrictions before beginning any hourly work to avoid jeopardizing your primary source of income. Also consider the effect any additional work will have on progress towards your degree.

Other Employment

Full-time employment or part-time employment beyond a teaching assistantship or research assistantship will considerably slow progress towards your degree. For this

reason, the Geology Department discourages students from such work. Although financial concerns must be paramount in some cases, experience has shown that you will be better off in the long run if you tolerate some short-term deprivation, so that you earn your degree on time and move to full-time professional employment.

Taxes

To understand the rules covering tax liability, you should read Publication 520 of the IRS, which can be downloaded from the IRS website. Remember that tax law may change at any time and that it is your responsibility to check with the IRS regarding your obligations.

Requirements for Resident Fee Status

All students working one-third time or more as teaching or research assistants are exempted from out-of-state tuition fees. Students not so employed are subject to out-of-state tuition rates until they have been a legal resident of Georgia for at least twelve months immediately preceding the date of registration.

We recommend that graduate students become residents as soon as possible to avoid these out-of-state fees. The requirements for establishing residency can be found in the Graduate School Bulletin. Currently enrolled students may also call the Registrar's Office at 542-4040.

Future Professional Employment

You will soon graduate and be seeking professional employment. We are interested in helping you find the best possible position for which you are qualified. Advertised job openings are posted on the bulletin board across from the Department Office. Interviewers for energy and mining companies may visit the Department. Such visits will be announced with enough time to organize individual appointments.

You should begin planning now for your job search and a good first step is to prepare your resumé, as well as a longer statement of your qualifications, known as a curriculum vitae, or C.V. for short. Your major professor will guide you in preparing these. You should also begin organizing a personal portfolio with copies of publications, abstracts, reports, research proposals, letters of recommendation, awards, evaluations, certificates or licenses, and other material bearing on your professional life. This material can be placed on a personal web page.

Even before you are ready for active job hunting, you should meet and talk with representatives of industry and government agencies as they visit the department for interviews or to present seminars. Your interview skills can be improved with planning and practice, which are necessary to present relevant facts coherently and confidently to an interviewer. Training for interviews can be arranged with the Career Planning and Placement Office in Clark Howell Hall.

Grants-In-Aid of Research

The Geology Department and the University of Georgia offer several sources of financial support for graduate student research. You are also strongly encouraged to seek support aggressively from outside the Department and University. Many such sources of support may be found by searching the web for "geology student grants". These sources include Sigma Xi, The Geological Society of America, the American Association of Petroleum Geologists, the Paleontological Society, the National Science Foundation, and the Environmental Protection Agency, among others. You should examine the web sites of these sources to determine the opportunities for funding. Applications to these agencies require well-written research proposals, and most agencies provide forms for that purpose. Your major professor should review your proposal before you submit it. Deadlines for many of these grants occur early in the spring semester, although some agencies have other deadlines. For additional information, consult your major professor or the Graduate Coordinator and the departmental website.

Gilles And Bernadette Allard Geology Award Fund

The Gilles and Bernadette Allard Geology Award Fund was established at the University of Georgia Foundation to provide awards to support Geology graduate students for field related research expenses. The Fund was initiated by Dr. Jeff Reid (Ph.D., 1981) upon the retirement of Professor Gilles Allard. Contributions from Dr. Allard's colleagues, alumni, as well as the Allards have made the fund operational.

The award is given in Spring semester to a Geology graduate student by the Department Head, based on the recommendation of the Admissions and Awards Committee. Applications are made by submitting a one-page project description and a letter of support from your major professor to the Admissions and Awards Committee. The deadline for submission will be announced each spring semester by the Graduate Coordinator or the Degree Program Assistant.

Joseph W. Berg Scholarship in Geophysics Fund

This scholarship was established in memory of Dr. Joseph W. Berg, Jr., an internationally recognized geophysicist with a distinguished record of service and research in government and academia. The fund supports research in geophysics by undergraduate and graduate students. The deadline for submission will be announced each spring semester by the Graduate Coordinator or the Degree Program Assistant.

Levy Memorial Fund

This Fund awards grants-in-aid of research annually to deserving students in marine geology, defined for the Fund as the physical, chemical, or biological study of any modern saline depositional environment or any sediment or rock in a saline setting that requires modern marine technology or logistics during sampling. Areas of eligibility include marine sedimentology, petrology, geochemistry, geophysics, and studies involving the paleontological, ichnological, and paleoecological implications of modern marine organisms.

Preference is given to students having no other support, although all students in marine science are eligible to apply. Grant funds may be used during the summer and subsequent academic year. Proposals are evaluated by the Marine Geology Committee of the faculty, which also sets the amount of money to be granted. M.S. candidates may receive a maximum of \$1,000 during their time in the Department, and Ph.D. candidates may receive up to \$1,500. The deadline for submission will be announced each spring semester by the Graduate Coordinator or the Degree Program Assistant. Applications must include:

1. The student's thesis or dissertation proposal, and a statement by the student showing the relationship between the proposal and the present request for funding.
2. A detailed, line-item budget and a succinct statement by the student justifying the budget, including summaries of support from other sources.
3. A support letter from the student's major professor, which includes an evaluation of the entire application.

Miriam Watts-Wheeler Scholarship Fund

The Miriam Watts-Wheeler Scholarship Fund was established in 1996 by the late Mr. Harold Elton Wheeler in honor of his wife, the late Miriam Watts Wheeler. Mrs. Wheeler's lifelong interest in rocks and minerals gave them many years of pleasure as they traveled throughout the United States and abroad gathering specimens for her collection. Mrs. Wheeler was impressed by the University of Georgia and Mr. Wheeler established this fund in her memory.

Funds are available to support geology graduate students in good standing. Money from this fund is disbursed by the Department Head upon recommendation of the Watts-Wheeler Committee. Support is generally limited to travel to professional meetings and conferences to present talks and posters, and for expenses related to research. Less commonly, other types of requests will be granted, such as travel to special workshops and training sessions. Proposals are reviewed twice yearly, once in the Fall Semester and once in Spring Semester. Proposal forms may be found on the Geology website. Deadlines for submission will be announced each semester by the Graduate Coordinator or the Degree Program Assistant.

University Awards

Other groups within the University also offer support for graduate students and students are encouraged to apply for these awards. Some of these include:

- Dianne C. Davison Scholar Award administered by the University Women's Club
- J. William Fanning Graduate Award administered by the Graduate School
- Graduate School Dissertation Completion Award administered by the Graduate School
- Joshua Laerm Academic Support Award administered by the Georgia Museum of Natural History
- Hamilton Lokey Graduate Scholarship, administered by the Graduate School

Requirements of M.S. and Ph.D. Programs in Geology

Most of the requirements of the M.S. and Ph.D. programs in Geology are set by the Graduate School. You should be familiar with the policies as laid out in the Graduate Bulletin, particularly those pertaining to the M.S. and Ph.D. programs, as given in this link: <http://grad.uga.edu/index.php/current-students/policies-procedures/academics/types-of-degrees-offered/>. More details specific to the M.S. and Ph.D. degrees in Geology are given below.

Graduate School Forms

Forms required by the Graduate School to submit your program of study, apply for graduation and other administrative requirements can be found at this link: <http://grad.uga.edu/index.php/current-students/forms/>

Academic Honesty

Academic honesty refers to the personal acceptance and adoption of a strict standard of values for your work and life in the academic world. Written regulations cannot encompass all the ramifications of such a system of values. Academic honesty includes respect for your own work and the work of others; complete truthfulness in your dealings with faculty, administrators, and fellow students; and care and respect for the academic resources in our libraries and labs. Academic honesty is not completely "academic", as the underlying philosophical principles extend to the values you should carry on to your future business and professional life. Your adherence to a high standard of values in this regard will be a significant factor in our evaluation of your potential as a professional.

You should obtain and read the pamphlet "A Culture of Honesty" prepared by the Office of the Vice President for Academic Affairs.

Major Professor and Advisory Committee

The advisory committee exists to assist and guide you with your academic and research program. In all prescribed duties, the advisory committee should function as a true committee; all members should be intimately involved in establishing the program of study, selecting and executing thesis research, reviewing thesis writing, and scheduling examinations. You or your major professor should call periodic meetings of the full committee to review your progress, and you should take prompt, specific actions as advised. At a minimum, the advisory committee meets once per year to evaluate your progress toward the degree and sign your completed annual evaluation.

For an M.S. candidate, the advisory committee consists of the major professor and two other members. For a Ph.D. candidate, the advisory committee consists of the major professor and at least two other members. The committee must include three members of the University's Graduate Faculty. You may include an additional member from outside of the University of Georgia, and Ph.D. students are strongly encouraged to include a non-UGA member in their advisory committee. Appointment of non-UGA members requires approval of the Graduate School and a letter of support from the Graduate Coordinator. It is the responsibility of the Ph.D. student and the major professor to supply the C.V. of the non-UGA member to secure a favorable decision by the Graduate School.

The Graduate Coordinator may consult with your major professor concerning the membership of your committee. The names of the major professor and the members of the advisory committee will be reported to the Graduate School by the Graduate Coordinator and Degree Program Assistant. All graduate students should select a major professor and advisory committee by the end of their second semester in residence.

If a member of your advisory committee is absent from campus for a long period during a critical phase of your graduate program and you need to replace that committee member, you may do so by agreement with your major professor, the remaining members of the advisory committee, and the Graduate Coordinator.

Coursework and Program of Study

All teaching and research assistants must pre-register for their courses, regardless of whether formal registration is completed at that time. We strongly urge that you register during the advance registration period, rather than wait until late registration. All graduate students should advise their major professor or Graduate Coordinator of their plans for course work during the advance registration period. This is necessary for planning of space and equipment needs as well as for TA scheduling. The dates of advance registration for the following semester are announced by the Degree Program Assistant at the beginning of every semester.

The Graduate School requires all graduate students to complete a program of study, to be approved by your major professor and advisory committee. The program of study should be filed during your second semester if you are a M.S. student or before admission to candidacy if you are a Ph.D. student. You should work closely with your major professor and advisory committee to plan a broad academic program involving course work in areas beyond your area of intended specialization.

Course Deficiencies

The undergraduate geology curriculum required for the B.S. at UGA is the benchmark for determining deficiencies in your undergraduate training in geology and other subject areas. For students with an emphasis in geophysics, archaeogeology, or geohydrology, some exceptions may be made to the expected undergraduate background. For example, advanced mathematics may be substituted for some geology courses for geophysics or geohydrology students, while anthropology may be substituted for archaeogeology students. Deficiencies in your background are identified by the Admissions Committee. Your plan of study should outline how you plan to deal with these deficiencies. The Graduate Coordinator will determine whether a program of study satisfies any identified deficiencies. Students are limited to including one deficiency course (4000/6000 level) as a graduate course on their program of study. You may seek exemption from any prescribed course by demonstrating proficiency in the subject to your major professor, advisory committee, and Graduate Coordinator.

Evaluations

At the undergraduate level, grades on exams and courses are often the only factor in evaluating your academic achievement and potential. Grades are important in graduate school, too, but assessment of your overall professional development and capacity for independent and imaginative work is more important. If your studies are directed towards long-range professional development, good grades will generally follow.

All graduate students must meet with their committee in the spring semester and complete an annual evaluation form, available on the departmental website at this link: <http://geol.franklin.uga.edu/sites/default/files/graduateAnnualReport.pdf>. You should complete this form before the committee meeting, and it should be signed by you and your committee at the meeting, before turning it in to the Degree Program Assistant. It is your responsibility to ensure that the report is completed and submitted at the appropriate time. Failure to make satisfactory progress as indicated by your major professor and advisory committee or failure to submit a signed and completed annual evaluation will result in an unsatisfactory evaluation. In this event, the department reserves the right to discontinue departmental support, including the termination of office space and extensions on assistantships. Registration

will not be permitted if the annual evaluation form is not completed and signed.

All graduate students are required to present their research results in defense. This presentation and an initial round of questions is open to faculty, students, and visitors. A subsequent round of questions is open only to faculty. This defense is not only a defense of your research as presented in your thesis or dissertation, but may also be a comprehensive test of the breadth and depth of your knowledge of geology.

We recommend that all graduate students do some general reading in geology as preparation for examinations given as part of your graduate degree, for courses you may have to teach, and for employment after graduate studies. While it may seem too basic, we recommend you read cover-to-cover first-rate elementary texts in physical and historical geology. A reasonable goal to set for yourself is to be conversant in all main topics in these texts at the level developed for beginning geology students. See your major professor or advisory committee for recommended texts.

Thesis and Dissertation

Proposals

A formal, written thesis or dissertation proposal is required of all graduate students. A well-written thesis or dissertation proposal should form the basis for a competitive student research grant proposal; consequently, we recommend an outline below that parallels the construction of a GSA student grant proposal. Although the timing and procedure for evaluating M.S. and Ph.D. proposals differ, the format and content is essentially the same. M.S. and Ph.D. proposals should contain the following:

- (1) Cover page with title of project and names of major professor and members of advisory committee.
- (2) Statement and explanation of hypothesis or hypotheses to be tested and the overall objective of the project.
- (3) Discussion of previous work on problem, both in terms of the larger discipline and regional studies, as well as the importance of the project.
- (4) Description of methods used to test the stated hypotheses.
- (5) Timeline for completion of project.
- (6) Itemized budget, with budget justification, and list of grant proposals submitted or to be submitted.
- (7) List of references cited in proposal.

Copies of proposals should be submitted to members of the advisory committee and one copy should be submitted to the Degree Program Assistant.

All students are required to defend their proposals orally. If the basic ideas of the proposal have been altered substantially as a result of its defense, revised copies should be distributed to the advisory committee and to the Degree Program Assistant.

Writing

The major professor should be satisfied with the thesis or dissertation before submitting it to other members of the advisory committee. From the viewpoint of the major professor, the thesis or dissertation should be in excellent form, complete, well-written, and well-edited. By the time the other members of the advisory committee receive the document, only minor changes should be necessary. The advisory committee has the right and responsibility to make recommendations and suggest additional changes. You should leave sufficient time for revisions between the defense and any deadlines required by the Graduate School for thesis or dissertation submission.

Members of the student's advisory committee should be given a copy of the thesis or dissertation at least three weeks before the anticipated defense date. Members of the advisory committee will in turn complete their review within three weeks, barring unusual scheduling problems. Reviewers cannot be expected to compromise their standards for quality merely for the sake of shortening the schedule.

Defense

Students should schedule their thesis or dissertation defense in consultation with their major professor and members of their advisory committee to avoid scheduling conflicts. The defense date must be at least one week before the Graduate School's deadline for filing the thesis or dissertation and related materials. The defense date must be announced to the department at least two weeks before the defense and a copy of the thesis or dissertation must be placed on file in the department office at this time. Defenses should be scheduled during fall or spring semesters. Summer defenses are not encouraged, but may take place only by the consent of the thesis or dissertation committee.

The student's performance in the defense will be judged by the major professor and the members of the advisory committee.

Obligation towards the Department of Geology

The Geology Department requires students to deposit an electronic copy of their thesis or dissertation on a CD with the Department. This electronic copy should be identical to that submitted to the Graduate School. Please make sure to leave with the Degree Program Assistant a CD with your thesis or dissertation before leaving campus. A good time to do this is when you clean your office and return your keys. A collection of these CDs will be maintained with the collection of older and bound theses and dissertations.

Change of Degree Objective

In some cases, a M.S. student may wish to change their degree objective to a Ph.D. To do so, the student should meet with their M.S. thesis committee to present their progress to date, to state their desire to change to the Ph.D. program, and to state their plan of Ph.D. research. Based

on this meeting, the thesis committee should forward a recommendation through the major advisor to the admissions committee, based on their evaluation of a student having made adequate progress and showing the potential to work at the Ph.D. level. The admissions committee will vote on the change of degree objective and the graduate coordinator will follow the committee's guidance on approving or disapproving the change of degree objective paperwork.

M.S. students should complete the change of degree objective paperwork by their second semester in residence (not counting summer semester) and take their Ph.D. preliminary exams in their third semester (not counting summer semester), in order to stay on schedule as a Ph.D. student.

Off-Campus Academic Work

If you work on a thesis or course at the Skidaway Institute of Oceanography, the Marine Institute on Sapelo Island, or the Savannah River Ecology Laboratory, you will be considered in residence at the University. While at these institutions, should you need help with the processing of Graduate School forms or special advice regarding your program, contact the Graduate Coordinator or the Degree Program Assistant.

Field work by registered students related to a thesis or special project is also considered on-campus work. By special arrangement, thesis work can be done at cooperative laboratories such those belonging to the Oak Ridge Associated Universities, of which the University of Georgia is a member.

Summer Plans

Your summer plans should be chosen to allow you to complete your degree program in the shortest possible time. The summer is the time when you can make great strides in your research work because you are free of the day-to-day demands of course work, TA responsibilities, etc.

In most cases, the Geology Department does not have the resources to offer graduate students summer support. We recognize that this may cause some financial difficulties for students and we have found several successful ways these can be minimized. First, seek grant support to cover summer research expenses. In some cases, your advisor may have such support available. Second, you will generally reap a long-term economic benefit if you obtain a student loan to cover your expenses rather than working at a low-paying job simply to pay the bills. Time on a job will slow your pace to graduation. Once you graduate and become employed, your earning capacity will quickly make up any accumulated debt. If you are not planning to spend a significant part of the summer on thesis-related research, you should discuss your plans with your faculty advisor.

Almost all faculty in Geology are on 9-month contract to the University, and are not employed for regular University business during the summer. During the summer

they are likely to be away from campus for extended periods for research and other professional pursuits. Students should make their summer plans sufficiently in advance to verify that faculty members will be available when necessary.

The M.S. Program

An M.S. degree program should be completed in two years and is limited by the Graduate School to a maximum of six years. For the M.S. degree, the Graduate School requires a minimum of 30 semester hours, of which at least 12 hours must be in 6000 or higher level courses not open to undergraduates. No more than 6 hours of research (GEOL 7000) and 3 hours of thesis (GEOL 7300) can be counted towards the 30 minimum hours, leaving a minimum of 21 hours of course work. The 9 hours in excess of the 12 hours of course work not open to undergraduates can include 4000/6000 level course and directed studies. It is your responsibility alone to complete all necessary requirements as listed here and to stay on schedule for a two-year completion. The schedules given below do not count summer as a semester; for example, the third semester for a student that started in the fall would refer to the fall of the second year.

Schedule for Degree Completion

First semester

Select your major professor, who must be a member of the Regular or Provisional Graduate Faculty.

Second semester

Select advisory committee.

Complete program of study form and submit to Graduate School through the Degree Program Assistant.

Submit thesis proposal to your major professor and discuss it with your advisory committee. A copy of the proposal should be given to the Degree Program Assistant to be placed in your file. Thesis proposals should be submitted by the end of your second semester, except where large numbers of course deficiencies must be removed. In such cases, the proposal should be submitted the semester following completion of remedial geology courses.

Complete annual evaluation form and submit to Degree Program Assistant.

First summer

Perform field and laboratory work.

Third semester

Continue work on thesis research.

Fourth semester

Application for Graduation form must be filed the first week of classes during the semester in which you plan to graduate.

Write and defend thesis. Obtain instructions on thesis preparation from Graduate School. Submit thesis to major

professor. Once thesis is approved by major professor, submit thesis to advisory committee at least three weeks before the defense.

Defense date must be announced to the department through the Degree Program Assistant no less than two weeks before the defense. A copy of the thesis must be placed on display in the Geology office at this time.

Results of the defense are reported to the graduate school through the Degree Program Assistant.

Thesis must be submitted to the Graduate School for a format check. Check early with the Graduate School regarding the scheduling of this format check.

If thesis will not be defended by end of semester, complete annual evaluation form and submit to Degree Program Assistant.

Submit electronic copy of completed thesis to Graduate School and to the Degree Program Assistant.

The Ph.D. Program

Ph.D. requirements should be completed within four years. The Graduate School sets upper limits for completion of six years after first registration for the course work and five years after admission to candidacy for the dissertation work. For the Ph.D. program the Graduate School requires at least 16 hours of 8000 or higher level courses in addition to research (GEOL 9000), dissertation (GEOL 9300) and directed studies. It is your responsibility alone to complete all necessary requirements as listed here and to stay on schedule for a two-year completion. The schedules given below do not count summer as a semester; for example, the third semester for a student that started in the fall would refer to the fall of the second year.

Schedule for Degree Completion

First semester

Select your major professor, who must be a member of the Regular or Provisional Graduate Faculty.

Second semester

Select advisory committee and submit committee form to Graduate School through the Degree Program Assistant.

Submit program of study to Graduate School through the Degree Program Assistant.

First draft of dissertation proposal.

First summer

Begin pilot field and laboratory work related to your research.

Third semester

Prepare dissertation proposal and distribute to advisory committee after approval by your major professor. All Ph.D. proposals must be submitted prior to the oral comprehensive examination.

Inform Graduate Coordinator at least three weeks ahead of the date on which you plan to take your

comprehensive examination. Permission to take comprehensive exam must be granted by major advisor.

Inform Graduate School, through the Degree Program Assistant, at least two weeks ahead of time of date of oral comprehensive exam. Geology faculty should also be informed of the date of this exam through the Degree Program Assistant.

Take written and oral comprehensive exams.

Submit admission to candidacy form to the Graduate School, through the Degree Program Assistant, immediately after successful completion of qualifying exams.

Fourth semester

Complete most of required course work.

Second summer

Begin field and laboratory work on your proposed research.

Final semester

File Application for Graduation form with Registrar's Office.

Obtain dissertation formatting instructions from Graduate School.

Submit copy of dissertation to major professor for approval. Upon approval, submit copy of dissertation to advisory committee at least three weeks before the defense.

Take dissertation to Graduate School for format check.

Defend dissertation.

Report results of defense to Graduate School, through the Degree Program Assistant.

Submit electronic copy of completed dissertation to Graduate School and to the Degree Program Assistant.

Comprehensive Examination

Overview

The Ph.D. comprehensive examination is given at an early stage of a Ph.D. program, generally before the completion of the third semester following matriculation, which allows time in the fourth semester for retaking the exam if needed. The comprehensive exam includes a written and an oral part. The Ph.D. written and oral exam constitute a logical whole designed to take place over a period of no more than three weeks.

Written Examination

The advisory committee has the responsibility to schedule the written examination. The student must inform the Graduate Coordinator at least a month before the exam date. There are only two exceptions to this schedule. (1) Former M.S. candidates who decide to work directly toward the Ph.D. should take the examination as soon as the Graduate School has approved their request for a change in degree objective. (2) New Geology majors having non-geology M.S. degrees and thus inadequate backgrounds, should take the examination in the semester

following the completion of coursework required to satisfy core-curriculum deficiencies.

The written examination will consist of 5 to 10 questions chosen by the major professor from a pool of questions written by the advisory committee. Normally, each committee member submits 2 to 4 questions to the advisor. The exam will be designed to take no more than 20 hours of work and may be open or closed book.

After receiving written pass or fail votes from each advisory committee member, the major professor will make the results of the written exam available to the student no fewer than three days before the scheduled date of the oral exam. The student is encouraged to contact members of the advisory committee informally for advice on how best to prepare for the oral exam. If the performance on the written exam is unsatisfactory, the advisory committee may by unanimous vote cancel the oral examination. If the written exam reveals deficiencies in training, the committee may require the student to take specific remedial actions, such as additional coursework or guided study.

Oral Examination

The oral exam is designed as a comprehensive examination of the breadth and depth of your knowledge in the geological sciences generally, and in your chief area of interest particularly. Your knowledge of your area of interest will include an oral defense of your written thesis proposal. The oral exam will also test your ability to think clearly, synthesize ideas, and express them coherently. The oral examination will be formally scheduled with the Graduate School by the Graduate Coordinator, through the Degree Program Assistant, and will be open to all members of the Faculty. You will make a short oral presentation of your thesis proposal, after which faculty members will question you on the proposal and related subjects. At the end of the oral exam, the advisory committee will consult and vote on the outcome of both the written and oral exams. Results will be communicated to the student and forwarded to the Graduate School.

If the performance on the written or the oral exam is unsatisfactory, the student will normally be allowed to re-take that exam. The advisory committee may, however, decide by unanimous vote to terminate the student's degree program at the conclusion of the semester in which the comprehensive exam was administered. Termination of the degree program encompasses all aspects of the degree program, including office space, teaching or research assistantships, computer and network access, and library use.

To aid in understanding the various outcomes of the written and oral examinations, a summary table is presented on the next page.

Possible Outcomes of First Attempt at Exam

Written Exam

- Pass
- Pass, deficiencies identified by committee must be rectified through coursework, independent study, etc.
- Fail (requires two or more fail votes), must retake written exam (Graduate School requirement), orals proceed as scheduled, committee may require deficiencies to be rectified through coursework, independent study, etc.
- Fail (requires two or more fail votes), must retake written exam (Graduate School requirement), oral exam cancelled and to be rescheduled after second written exam (requires unanimous vote of committee), committee may require deficiencies to be rectified through coursework, independent study, etc.
- Fail (requires two or more fail votes), degree program terminated (requires unanimous vote of committee)

Oral Exam

- Pass
- Pass, deficiencies identified by committee must be rectified through coursework, independent study, etc.
- Fail (requires two or more fail votes), must retake oral exam (Graduate School requirement), committee may require deficiencies to be rectified through coursework, independent study, etc.
- Fail (requires two or more fail votes), degree program terminated (requires unanimous vote of committee)

Possible Outcomes of Second Attempt at Exam

Written Exam

- Pass
- Pass, deficiencies identified by committee must be rectified through coursework, independent study, etc.
- Fail (requires two or more fail votes), degree program terminated (Graduate School requirement)

Oral Exam

- Pass
- Pass, deficiencies identified by committee must be rectified through coursework, independent study, etc.

- Fail (requires two or more fail votes), degree program terminated (Graduate School requirement)