Graduate Student Handbook 2024 – 2025



PhD and MS in Biology School of Biological Sciences Georgia Institute of Technology

About the School: A Message From the Chair Professor Todd Streelman, Chair

There could not be a more exciting time to be a biologist. We have come through three incredibly productive decades of research that have expanded the frontiers of knowledge in many areas. We have made amazing progress in understanding the workings of individual cells, organisms, populations, and communities. For example, we now understand many of the molecular details of how information is encoded and expressed by genes throughout plant and animal development. On the cellular level, we have begun to document the mechanisms that underlie various neurological and physiological processes associated with a variety of human diseases. At population level, many of the mysteries about how species interact and adapt to their environments are beginning to unravel.

The next twenty years promise to be just as exciting and productive in biology. Most scientists agree that future advances in biology will result from integration rather than specialization. For example, future ecologists will integrate knowledge of cellular and molecular processes to better understand how organisms sense their environments and how they use these sensations to induce behavioral and physiological responses in individuals, populations, and communities. Boundaries that currently define traditional areas of biological research are becoming blurred, and biologists now regularly integrate knowledge and methodologies from fields that are currently considered outside of biology. The significant role of mathematics and computer science in biological research will continue to grow. Increasingly, cells, organisms, and populations will be viewed and studied as composites of dynamically interacting units. These approaches will be focused on solving some of our most challenging problems like climate change, the loss of biodiversity, biofuels, bioremediation, and drug discovery.

While past research has taught us much about how cells and populations are structured and function, future biology will be focused on understanding how these systems interact. The mathematical and computer sciences will be essential tools in the "systems approach" to biology. Likewise, the integration and incorporation of engineering into biological research will be a hallmark of future discoveries. Many algorithms originally developed by systems engineers to help understand the dynamics of complex electrical networks are already being employed to unravel the complexities of biochemical pathways in cells.

The School of Biological Sciences at Georgia Tech is ideally positioned to exploit these scientific trends and to make discoveries that will significantly advance the field. We are also well prepared to train students to think critically, solve problems, and to become the next generation of professional biologists. Long-standing strengths in engineering and the mathematical and computer sciences at Georgia Tech provide an ideal environment in which to prepare young biologists to become world leaders in integrative biological research. The School of Biological Sciences is composed of a diversity of researchers, many of whom have pioneered integrative approaches to the study of biological systems. They also are skilled in mentoring young scientists in many kinds of projects, ranging from the assembly of ecological communities, to membrane trafficking in cells, to the molecular genetics of bacterial pathogenesis. As you can see, the School of Biological Sciences is making exciting advances everyday and well on its way to becoming a recognized leader in biology. I invite you to join us on this exciting journey of discovery.

Professor Todd Streelman Chair School of Biological Sciences

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Introduction

Departmental Resources

The purpose of this handbook is to outline the School of Biological Sciences' procedures for graduate students to receive a degree. The general rules and regulations governing all graduate students at Georgia Tech are found in the Georgia Tech General Catalog, <u>http://www.catalog.gatech.edu/</u>, or online at the Graduate Studies and Research web page, <u>http://www.gradadmiss.gatech.edu/thesis.php</u>.

This handbook is updated annually in the summer. However, any major changes made prior to that time will be posted to our website with notification to all graduate students by email. Copies of all forms referred to in this handbook are available in the Appendix and on our website: <u>http://www.biosci.gatech.edu/</u>.

If you have any questions that aren't answered in the handbook, feel free to contact any of the following people:

Ms. Chung Kim.	Engineered Biosystems Building (EBB) 2009
Academic Program	404-385-4240, ckim@gatech.edu
Manager	
Dr. Ingeborg Schmidt-Krey	Cherry Emerson Building A118
Chair, Graduate	404-385-0259, Ingeborg.Schmidt-Krey@biosci.gatech.edu
Committee	
Dr. Francesca Storici	Engineered Biosystems Building (EBB) 5017
Associate Chair for	404-385-3339, Francesca.Storici@biosci.gatech.edu
Graduate Affairs	

Other sources of information

- Georgia Institute of Technology general website http://www.gatech.edu/
- Georgia Institute of Technology General Catalog <u>http://www.catalog.gatech.edu/</u>
- ♦ Office of the Dean of Students: <u>http://www.deanofstudents.gatech.edu/</u>
- ♦ Georgia Tech Office for Graduate Studies and Research: <u>http://www.gradadmiss.gatech.edu/</u>
- Manual for Graduate Theses (a format guide published by the Georgia Tech Graduate Studies and Research Office): http://www.gradadmission.gatech.edu/sites/default/files/images/thesismanualjun17_0.pdf
- OSCAR: On-line Student Computer Assisted Registration website, has catalog information and listings of all classes offered for current and following semesters: <u>https://oscar.gatech.edu/</u>
- School of Biological Sciences website: <u>http://www.biosci.gatech.edu/</u>

The Graduate Program

The primary aim of our graduate program is to foster your development as a scientist by providing you with a strong technical background, a sound grasp of current scientific problems, and the analytical skills you'll need to begin to attack such problems. We also hope to motivate you to continue learning, which will permit you to define and solve new kinds of problems during your professional career. Upon graduating, you will move on to positions in industry, government, and academia. Your reflections on our graduate program will be most welcome and your suggestions will assist us in further developing the program to remain at the cutting edge of science.

School of Biological Sciences Graduate Committee

The School of Biological Sciences Graduate Committee consists of five faculty members representing major research areas in the department. In 2019-2020, the committee includes Drs. Ingeborg Schmidt-Krey (Chair), Ed Balog, Liang Han, Lin Jiang, and Shuyi Nie. The Chair and Associate Chair of the School of Biological Sciences also take part in Graduate Committee affairs *ex officio*. The Graduate Committee has specific responsibility for establishing and administering graduate degree requirements, approving programs of study, as well as thesis and PhD committees, and providing oversight for administering the PhD qualifying exam.

The Graduate Coordinator works in the School of Biological Sciences Graduate Office and work directly with the Graduate Committee to facilitate and implement new policies, coordinate graduate recruiting efforts and admission of students into the program, develop on-campus programs and serve as a resource and liaison for graduate students in the department.

Francesca Storici is Associate Chair of the School for Graduate Affairs. She is involved in the administrative oversight of the graduate program and works together with the committee on graduate student issues.

Institute Graduate Committee

The Institute Graduate Committee is responsible for all institute-wide academic policies and degree requirements at the graduate level. They also make all decisions regarding institute-level graduate student petitions. These petitions include late withdrawals, changes in graduate studies, grade disputes, and readmission into the program.

Courses Offered

Catalog descriptions of all courses offered may be found online at: <u>http://www.biosci.gatech.edu/graduate/courses</u>. In general, courses numbered 4xxx are intended for advanced undergraduate and graduate students, while courses numbered 6xxx-9xxx are intended for graduate students, but are available for undergraduate students with strong records.

General Policies and Requirements

The School of Biological Sciences has grown significantly over the last few years and our graduate program has changed and evolved with the School as a whole. Some of the requirements in this handbook may change during your studies, but you will always have the option of graduating under the requirements in effect when you entered the program.

Thesis Advisor

As a graduate student in the School of Biological Sciences, **you** are responsible for your overall program of study and your progress toward the degree. You will be advised throughout your graduate career by your thesis advisor and thesis committee, as well as by any other faculty you wish to consult.

Upon admission, you will be assigned an advisor who will work with you in selecting courses and planning your initial curriculum. This advisor may or may not become your primary thesis advisor. You may use your first year to explore research opportunities in the department, but you *must* select a primary advisor no later than the end of one year in residence. Submit the *Thesis Committee Membership Form* to the Biology Program Manager, Chung Kim. Your primary advisor must agree to act in that capacity and will be responsible for providing lab space to support your research. You may change advisors at any time and for any reason, but you *must* have a primary advisor at all times after the end of your first year in the program in order to remain in good standing.

Thesis Advisor and Committee

Your thesis advisor acts as chair of your thesis advisory committee and has primary responsibility for advising you in your research. Normally, a thesis advisor must be a member of the tenure-track faculty of the School of Biological Sciences. Under special circumstances and with the approval of the Graduate Committee, courtesy, adjunct or research faculty in Biological Sciences or faculty in another school at Georgia Tech may act as co-advisor for a Biology graduate student in collaboration with a thesis advisor from the School of Biological Sciences. In such cases, a written statement must be filed specifying who will be responsible for advising and supporting the student. The statement should also detail plans in the event the co-advisor is no longer available.

You should consult with your advisor about the membership of your thesis committee beginning in your first year of studies. For PhD students, the thesis committee must have five members, including three members of the academic faculty of the School of Biological Sciences and at least one member from outside the School of Biological Sciences. For MS Biology with thesis students, the thesis committee must have at least three members including two members of the faculty of the School of Biological Sciences. The school of Biological Sciences and at least one member from outside the School of Biological Sciences. The composition of your committee may change as your studies progress, and it is very common to add members to your committee as you carry out your research. Thesis advisory committees must be approved by the Graduate Committee.

The thesis committee's role is to advise you on all aspects of your graduate studies and will have primary responsibility for evaluating your work and your thesis. Your first committee meeting must occur before the end of your 12th month in the program and annually thereafter. Your preliminary program of study must be discussed and approved at your first meeting with your thesis committee. For the School of Biological Sciences degree programs, the thesis committee must be approved by the School's Graduate Committee.

Departmental Seminar

Regular departmental seminars are an important part of your graduate education and should become part of your weekly routine. Students are required to take two, one-hour biology seminar courses, one hour in the fall and one hour in the spring semesters. During the first full-time year in residence, you are required to register for Biology Seminar, designated BIOL 8002 in the fall and BIOL 8003 in the spring semesters. Students receive pass/fail credit by attending at least 10 seminars per semester and meeting any additional requirements your advisor may have relating to the seminars. For example, your advisor may require you to write reports on a subset of the seminars. Discuss the seminar courses with your advisor at the beginning of the semester you register. Generally, any biology-related school or center seminar on campus given by a speaker external to Georgia Tech qualifies. Attendance at seminars is a very important component to a research career; therefore you are *strongly encouraged* to attend seminars as part of your professional life beyond the first year of your PhD.

Tools of Science (Biology 8106)

Tools of Science is a <u>mandatory course</u>, which includes the NIH- and NSF-required RCR training. Students are advised to take it in the first year of study. This jointly-taught course introduces students to topics related to succeeding in graduate school and beyond, and provides a forum for discussing a variety of concerns and issues that affect all successful scientists and engineers.

Grades and Credit Hours

As a graduate student, you must maintain a minimum grade point average to remain in good academic standing. The minimum satisfactory GPA is 2.70 for MS students and 3.00 for PhD students. A graduate student must register for at least 12 credit hours to maintain full time status, and may register for a maximum of 21 semester hours in fall or spring semester and a maximum of 16 semester hours during the normal summer term.

Transfer of Credit from another University

Please consult the Institute's guidelines on transfer of credit from another university to MS and PhD degree programs at Georgia Tech. Currently a student matriculating for a MS degree may, with appropriate approval, receive up to nine pass/fail credit hours for graduate-level courses taken at an accredited institution in the United States or Canada and not used for credit toward another degree. PhD students may also apply their graduate level course credit from another university (see PhD program regulations below) with the approval of the Thesis Advisor and Graduate Committee.

A student requesting transfer credit must complete the following procedure preferably during the first year in the program:

- a. Confer with your faculty advisor or the Graduate Coordinator to ascertain whether the courses to be transferred appear to be a logical part of your graduate program.
- b. If your thesis advisory committee (for thesis students) or Graduate Coordinator (for non thesis students) considers the courses appropriate, provide a copy of the relevant transcript along with documentation describing each course to the Graduate Coordinator and the Chair of the Graduate Committee. The required documentation should include catalog descriptions, syllabi, and textbooks used. The Graduate Committee will make a decision on the acceptability of the courses. If the Committee approves, a transfer credit form will be prepared, signed by the Chair or Associate Chair and sent to the Registrar. (Procedure may differ for MS vs. PhD students)
- c. If special circumstances suggest transfer of more credit hours than allowed by Institute and/or School guidelines, you may submit a petition justifying the request and a letter of support from your thesis advisory committee to the School Graduate Committee. If the School Committee approves the petition, it will be forwarded it to the Institute Graduate Committee for its consideration.

Requirements of MD/PhD Students

Students enrolled in the MD/PhD program should strictly adhere to the guidelines outlined for PhD students in the Graduate Handbook. With approval from the Graduate Committee, courses taken at Medical School can be considered for credit towards the PhD degree, including the minor requirement.

Recommended steps for evaluation of progress and communication of expectations between faculty and graduate students

In order to provide graduate students with the opportunity to correct their course upon receiving constructive criticism and a clear understanding of the timeframe for possible consequences, the following steps are recommended.

Communication about research progress and considerations/alternatives for leaving current laboratory

Graduate students receive regular feedback and training from their advisors. Thesis advisors ensure that any significant performance concerns are communicated as outlined below. If it is not possible for the advisor-advisee relationship to continue, this has to be communicated at such a time that leaves the graduate student enough time to consider alternatives and not to be terminated within very short notice.

If in good academic standing, the student should have enough time to potentially find a new thesis advisor before the start of the following semester.

Other options: MS thesis students may switch to non-thesis. PhD students may switch to the MS in Biology program. The graduate coordinator will be able to assist with a degree audit and a new projected timeline for the MS.

First concerns – responsibilities

The advisor or graduate student cannot clearly state that appropriate progress is made and/or duties, working hours, communication or similar is/are not as expected. The advisor may or may not be at the point yet of considering to give the student a grade of "U" (unsatisfactory) for research.

Meeting between research advisor and graduate student:

Advisor: Communicates concerns verbally in a meeting, or in an email followed by a meeting to provide an opportunity for discussion. Expectations are outlined clearly and a reasonable time point for correction of path is discussed.

Graduate student: Responds to the feasibility of the plan and is proactive about requesting feedback and constructive criticism on a regular basis.

Written documentation to ensure clarity for both involved parties:

An email summary follow-up by either the advisor or graduate student is highly recommended for clarity and documentation purposes. Concerns that were raised and the solutions/next steps discussed are briefly outlined. The advisor and/or advisee should cc the graduate coordinator and graduate program director/chair.

<u>Second step – official notification</u>

Problems have not been resolved within the agreed-upon timeframe, or only partially.

Meeting between research advisor and graduate student:

A meeting with the same goal of correcting the situation as outlined under "first concerns" is scheduled between the research advisor and the graduate student.

Written documentation with graduate coordinator cc'd (REQUIRED):

The concerns raised during the first meeting, expected progress, and shortcomings at this timepoint are listed. The advisor makes consequences clear (e.g. a "U" grade for research or termination, if the student has already received one "U") and may provide another opportunity for correction.

The graduate coordinator forwards the information to the graduate program director and the graduate committee chair. The student is welcome to request a meeting to discuss possible consequences and options as well as receive advice on the student's perspective.

<u>Third step – termination in program or in current lab, which may include change of program</u> <u>and/or change of thesis advisor</u>

The most significant problem(s) could not be resolved at the agreed-upon timepoint. The student has received one "U" for research and is likely to obtain a second "U".

Notification:

The advisor informs the graduate program director/chair and coordinator and then meets with the student. Written documentation is provided to the student and the graduate office.

General

The graduate student may seek additional advice from a mentor, thesis committee member(s), the graduate coordinator, the graduate program director, and/or the chair of the graduate committee. The School of Biological Sciences Associate Chair or Chair are good resources as well, should the student not feel comfortable speaking with any of the aforementioned possibilities. At the institute level, the student has the possibility to speak with the Ombud or the Dean of Students.

Expectation of communication:

Response to emails from graduate coordinators or faculty: within 24-48 hours.

Standing for graduate degrees:

The individual graduate program handbooks provide details and students are encouraged to discuss concerns with their graduate coordinator and/or faculty mentor.

Misconduct:

Misconduct of any type requires immediate communication with the graduate office instead of the above recommendations.

Mutual Expectations of Research Advisors and Advisees

The relationship between advisor and advisee is central to the experience of students in research based graduate programs. Both partners in this relationship must contribute for it to succeed. Successful advisor-advisee relationships enhance the careers of both partners. The relationship can take on three forms: advisor-advisee; supervisor-employee; and mentor-mentee. In the best cases, the three forms work together. This document articulates key contributions from each partner to an advisor-advisee relationship that leads to mutual benefit.

The Advisor

Advising graduate students in research-based programs is part of the job expectation for almost all Georgia Tech faculty members. Graduate students build the faculty member's research record and reputation by contributing to the advisor's research program. This situation carries an inherent tension. Although the faculty member's success depends at least in part on the student's success, the faculty member may also be responsible to outside sponsors, whose goals may not directly match those of the student. As an educator, the advisor must always protect the student's interests as well as the sponsor's and his or her own in the research relationship.

The Advisee

The student's motivation is to earn a degree, which requires the acquisition of scholarly knowledge and research competence. Participation in the research process is an essential requirement for all Georgia Tech doctoral students and many master's degree students. In this part of their education, the student's duty is to put a best faith effort into his or her assigned contribution to the research process. At the same time, Graduate Research Assistants (GRAs) are also employees who help the advisor and research group meet the requirements of a contract or grant; while, Graduate Teaching Assistants (GTAs) and Graders are also employees of the school or program who help the school or program meet their educational requirements. As such they are employees with a set of job responsibilities that may not align with their research objectives or those of their advisors. As with the faculty advisor, this situation sets up an inherent tension between the student's educational goals and his or her employment responsibilities.

Mutual Expectations

Students Expect from their Advisor:

Respect

- Respect as a person, student, and professional employee
- Recognition and respect for differences in culture, ethnicity, gender, and other dimensions of diversity
- Commitment of time, effort, and financial support; advising only as many students as resources permit
- Ability to communicate and express concerns without the fear of retribution

• Understanding of the student's commitments to course work and GRA/GTA/Grader responsibilities

Open and clear communications

• Mutually agreed upon expectations for frequency and format of communication

• Clear communication about project timelines, availability and nature of funding, level of effort and research expectations

• Timely review and feedback on the student's research and academic progress

• Notification of and appropriate resolution of issues that arise within the program, be they academic, research, financial or interpersonal in nature

Guidance on research and degree completion

- Guidance on planning and managing research projects from conception to publication
- Reasonable, mutually agreed upon expectations of the time frame necessary to produce results and complete the dissertation/thesis
- Proper training and resources to successfully complete research projects
- Guidance on professional and ethical standards

Guidance on career

• Advice on advancing professional goals in the direction most desired by the individual student

• Opportunities to participate in career development activities

• Help building professional networks

Advisors Expect from Advisee:

Respect

• Respect both as professor and person; recognizing the value of their time and their responsibilities within and outside the Institute

• Understanding that mentoring is tailored for each individual student and adjusted for progress in the degree program

Open and clear communications

- Mutually agreed upon expectations for frequency and format of communications
- Regular progress reports including what the student has and has not done, including setbacks

• Reasonable, mutually agreed upon expectations of the time frame necessary to give feedback and review results

• Discussion of difficulties with advisor first, before turning to other means for conflict resolution

• Notification as soon as possible if planning to leave program or advisor sooner than expected

Commitment & Productivity

• Understanding of the expectations of the degree program, advisor and research team, and GRA/GTA/Grader responsibilities

• Learning and progress through the program, with progressively more independence as the student advances

• Commitment and steady effort to make progress towards mutually agreed upon results and deliverables; adhering to timelines and deadlines Responsibility

- Safe, ethical, and efficient use of resources
- Abiding by professional and safety standards
- Taking feedback seriously and revising in response
- Maintaining good records and documentation that would allow replication of results

• When graduating or leaving the team, leaving behind the organized research materials Teamwork

- Working well with others; supporting and mentoring others in the team
- Carrying a fair share of the responsibility
- Understanding the common intellectual property principles involved in teamwork
- Meeting deadlines
- Thoughtfully reviewing the work of others, including the advisor

Doctor of Philosophy (PhD) Degree Programs

The doctoral degree requires a thorough knowledge in a selected area of specialization, a general knowledge of biology, and the ability and dedication to carry out novel research in uncharted areas. It is not necessary to obtain an MS degree before pursuing a PhD degree. Students typically take about five years to complete their doctoral program.

The School of Biological Sciences offers a PhD degree in Biology and in Applied Physiology (please see the separate Applied Physiology PhD handbook) and participates in the interdepartmental PhD programs in Bioinformatics, Quantitative Biosciences, and Ocean Science and Engineering.

Important objectives for the PhD in our Biology Program are: (1) Students will be able to carry out independent research and effectively convey the research to the scientific community and lay public. (2) Students in our Biology Program will be able to analyze the data they generate in their research work and to critically review their results. (3) Students will be able to write (a) scientific proposals and (b) scientific journal articles.

PhD in Biology

Course Requirements

The PhD degree requires a minimum of 40 credit hours. This must include: 18 credit hours of thesis research, and 18 credit hours of letter grade coursework (which includes nine credit hours in an approved minor).

Coursework	Credit Hours
Thesis Research (BIOL 9000)	18
Biology Seminar (BIOL 8002 and BIOL 8003)	2
Tools of Science (BIOL 8106)	2
Coursework (letter grade) approved by thesis committee. This coursework must meet the following three criteria: ¹⁻⁶	18
At least 9 of the 18 hrs must be graduate courses (6000 level or higher) with a letter grade	
At least 9 of the 18 hrs must be Biology courses (BIOL $4XXX - 8XXX$), with a letter grade	
9 of the 18 hrs must fulfill the requirement for an approved minor ³	
Total Required	40

Important Notes:

1. Each individual course may be used to meet more than one of the three criteria; i.e BIOL 6XXX can be used to fulfill 3 of the 9 hours of the graduate course requirement, 3 of the 9 hours of the Biology course requirement and 3 of the 9 hours for an approved minor. However a 3 hr course only counts as 3 hrs toward the 18 hour total coursework requirement.

- 2. Georgia Tech specifies that the minor needs to be outside of the specialized research area. Apart from that, there seems to be a good degree of flexibility. Examples could be microbiology, biochemistry, molecular biophysics, molecular evolution, biostatistics, cancer biology, genomics, epigenetics, aquatic toxicology, community ecology. You may want to wait somewhat with submitting the form until you have a general idea of career plans, in case a specific minor will be helpful. Please discuss the minor and which classes to use for it with your research advisor.
- 3. A student may request to apply up to nine credit hours of graduate level courses taken at another university toward the above curriculum requirements. The courses must be relevant to a student's doctoral studies and must be approved by the student's thesis advisory committee and the School's Graduate Committee. A student may petition the School's Graduate Committee to apply additional credit hours as outlined on page 12 if special circumstances exist.
- Teaching and Research Assistantships (BIOL 8997 and 8998) are for bookkeeping only. <u>Do</u> <u>not</u> put these on your Program of Study Form.
- 5. Any deviation from the Planned Program of Study requires approval of the thesis advisor and Graduate Committee.

Good Standing

To remain in good standing within the program, you must maintain a GPA of 3.0 while making progress towards the degree. The major milestones used in evaluating progress are summarized below. The Graduate Committee reviews the status of each student at least once a year in consultation with the student's advisor and committee. Students who fail to maintain good standing are not eligible for departmental TA or RA support and may be dismissed from the program.

Special Problems (BIOL 890X)

Incoming students are encouraged to participate in lab rotations in several faculty labs through the mechanism of special problems courses. However, lab rotations are not required of incoming students. In the Molecular and Cell Biology (MCB) area, most students participate in several lab rotations prior to selecting a thesis advisor with mutual consent. In Ecology, Evolution, and Behavior (EEB) area, it is common for students and faculty to mutually agree on advisor-student pairing prior to students accepting admission. There are advantages to both approaches.

Students who are accepted for admission will be asked to specify in their acceptance of the offer if they plan to:

A) Register for Special Problems during their first year and carry out at least two half-semester laboratory rotations prior to any decision on thesis advisor or,

B) Initiate lab research with a specific professor who agrees to be his/her initial advisor.

Prior to the first week of class in the fall semester, the Graduate Coordinator will ask faculty if they are willing to have graduate students participate in a lab rotation course. Interested faculty will have the opportunity to give a 10- to 15-minute research talk to students doing lab rotations. Before the end of registration, students will register for the appropriate special problem course based on semester and advisor. If doing a lab rotation in a professor's lab for the first time, please register for BIOL **8901**-xxx

where xxx are the first three letters of the last name, in most cases, of the professor. If this is the second semester with the same professor, please register for BIOL **8902**-xxx.

Unless you have an offer letter and/or agreement with a professor to join a lab right away, you have the option to do rotations. Please note that it is uncommon for ecology PhD students to do rotations. A rotation is done with the agreement of the professor. Please speak with the professor about expectations, including the start and end dates. Typically, a rotation starts in the first week of the semester and finishes around/after finals. A number of professors may expect you to stay somewhat longer though, especially if they are paying your GRA. One rotation per semester is most common. You may do one or two rotations per semester. As long as the professor agrees, you may join a lab, while you are doing a rotation.

Teaching Requirement

All PhD students are required to participate as a graduate teaching assistant in a minimum of one course as part of their graduate training. A teaching assistant often has six hours of contact time weekly (one six hour lab or two three hour labs). Office hours, preparation time, and grading generally take about six to eight hours each week, for a total commitment of roughly 12-14 hours effort per week. The school and institute provide training opportunities to TAs to learn and hone their teaching skills.

Registration

Full-time enrollment is required of all students receiving assistantships or fellowships and for international students on visas. **Full-time students must be enrolled for at least 12 credit hours, preferably 21 credit hours as research credits will be taken, on a letter grade or pass-fail basis.** Please consult with your faculty advisor and the graduate coordinator for assistance with required courses. For general registration questions, please contact the Graduate office. All graduate research assistants should register for the GRA course BIOL 8998 for audit and all graduate teaching assistants should register for the GTA course BIOL 8997 for audit. Most students register for 16 (summer semester) or 21(fall, spring semesters) credit hours in which some of these are the required audit hours mentioned above.

Advisor and Thesis Advisory Committee

Your thesis advisor acts as chair of your thesis advisory committee and has primary responsibility for advising you in your research. Normally, a thesis advisor must be a member of the tenure-track faculty of the School of Biological Sciences. Under special circumstances and with the approval of the Graduate Committee and the School Chair, adjunct or research faculty in Biological Sciences or faculty in another school at Georgia Tech may act as co-advisor for a student in Biology in collaboration with a thesis advisor from the School of Biological Sciences. In such cases, a written statement must be filed specifying who will be responsible for advising and supporting the student.

You should consult with your advisor about the membership of your thesis committee beginning in your first year of studies. The thesis committee must have five members, including three members of the academic faculty of the School of Biological Sciences and at least one member from outside the School of Biological Sciences. The composition of your committee may change as your studies progress, and it is not unusual to change members to your committee as you carry out your research.

To establish or modify your thesis committee, submit a Thesis Committee Membership Form for approval by the Graduate Committee.

The thesis committee's role is to advise you on all aspects of your graduate studies. Your first committee meeting should occur at the end of your 12th month in the program and you must meet with your committee annually thereafter. Your preliminary program of study must be discussed and approved at your first meeting with your advisory committee.

Qualifying Exam

A PhD student gains admission to candidacy for the degree by passing a two-part qualifying examination. To be eligible for the qualifying exam, you must have:

- 1. Completed the majority of their graduate courses in biology with a letter grade.
- 2. Maintained a GPA of at least 3.0 for all regular courses listed on your program of study, excluding Special Problems.

The qualifying exams must be administered by at least four of your committee members. The format of the exams will be determined by the thesis advisor and the thesis committee members.

- 1. The comprehensive written exam must be taken preferably during spring of your second year in the program. Please communicate the reason for any delays to the Biology graduate coordinator in order to obtain approval by the graduate committee. One option of this exam requires that you prepare an original research proposal following NIH or NSF guidelines. The proposal can be based on your thesis research or on topics agreed upon by the committee members. Well before the exam, you should consult with your advisor and committee in developing your research proposal. Another option is for the exam to be comprised of a set of questions designed by your thesis committee members, which you will be tested on. The PhD committee may recommend that it is in a student's best interest to be tested via both options. You should initiate discussion of these options with your thesis committee before the start of the semester in which you register for the course. The final decision of which form your written exam will take is made by your thesis committee.
- 2. The comprehensive oral exam must be taken following successful completion of the written exam, either in the spring or, at the latest, in the early summer semester of the second year. The oral exam will include a presentation from the student on the research project they are working on and planned future studies. The presentation will be followed by discussion and questions by the committee members. In addition, the student will likely be probed on their general knowledge in the discipline.

Exam Grading

Your committee members will jointly administer and grade your exam. You will receive feedback on the outcome of the exam within two weeks of the comprehensive written exam date. The decision on whether you passed the oral exam will be made on the same date as your oral defense. Your committee may also decide that you failed the exam, or they may identify weaknesses that should be addressed either by further study and reexamination, or through some other mechanism for demonstrating your command of the materials in question, such as writing a paper. Whatever the immediate result of your exam, your advisory committee must report a final result (pass/fail) to the Biology graduate office and submit a "Qualifying Exam Evaluation form", indicating your grade by the end of the semester in which the exam is taken.

http://biosci.gatech.edu/sites/default/files/documents/qualifying_exam_0.pdf

To help you understand critical evaluation criteria for the qualifying exam, we are including the following rubric:

Grading rubric for the qualifying exam:

Outstanding (above 90-100%)

Very organized and well written/presented; the writing is clear, concise, critical, persuasive, and compelling; is focused, coherent, and organized around a major theme or question; is original and significant; addresses a very important issue or answers a long-standing question; has well-planned and well- performed experiments; uses or develops new tools, methods, approaches, or new types of analyses; has a very significant new discovery; the conclusion ties the whole thing together; has an impact on theory; opens up a new area for research; will move the field in a new direction.

Very good (above 80-90%)

Solid work; has an argument; is well written/presented, well organized, and broad in scope; demonstrates understanding of all aspects of the subject; has a novel, timely question or may look at an old question with a new approach or a new analytical method; uses appropriate techniques and analyses; the data is very well done and provides solid answers; is original and significant but may confirm an already known answer; the quality of the science is good, however, will not necessarily have a huge impact on the field.

Acceptable (above 70-80%)

Student has done a significant amount of work reasonably well; writing is well done and organized but may be excessive; has a few innovative aspects but lacks originality; the science is acceptable but not particularly good science; shows acquaintance with the key papers but does not really discuss what is important about them; the experiments are reasonably well done; has all the right controls; adds data to an existing hypothesis; the results are useful but not exciting; may confirm what is already known; is not a particularly meaningful contribution.

Unacceptable (70% or below)

The quality of the science shows a lack of depth of understanding the project; does not make an original contribution; the writing has no storyline or argument, has spelling, and grammatical errors; does not have a good question; the experiments are poorly done and analyzed; the quality of the data collection and statistical analyses is poor; may have engaged in unethical behavior; inaccurate and/or misinterpreted data; draws invalid conclusions from the data; does not (cannot) explain what has been done or what it all means.

What if... ... you fail an exam?

Upon failing an exam, you will be expected to retake the exam in the same semester. If you find

yourself in this situation, you should consult with your advisor and the Graduate Committee as soon as possible after receiving your exam grade. You should also discuss your exam with the graders to get feedback on your performance, particularly if you plan to retake the exam. If you fail either the written or oral exam a *second* time, you will no longer be in good standing as a PhD student and will be required to leave the program.

Annual Thesis Advisory Committee Meetings

You are responsible for meeting with your thesis advisory committee at least once each year (including your first year in the program) to present an overview of your academic and/or research progress and to consult with the committee on the work remaining to be done. You must file a Thesis Committee Meeting form and Thesis Committee Meeting Evaluation form signed by the members of your committee following this meeting.

http://biosci.gatech.edu/sites/default/files/documents/thesis_committee_membership_form.pdf (Thesis Committee Membership form)

http://biosci.gatech.edu/sites/default/files/documents/thesis_committee_meeting.pdf (PhD)

http://biosci.gatech.edu/sites/default/files/documents/ms_thesis_committee_meeting_form.pdf (MS Thesis)

http://biosci.gatech.edu/sites/default/files/documents/evaluation_form_1.pdf (Evaluation form)

Individual Development Plan

An Individual Development Plan (IDP) is a helpful tool to set and achieve short- and long-term goals during the PhD as well as receive constructive feedback from the thesis advisor. PhD in Biology students prepare and then discuss their IDP with their thesis advisor at least once every semester. In addition, a summary of the IDP is shared with PhD committee members during or before the yearly PhD committee meeting. PhD students may select one of the different IDP versions below:

https://ctl.gatech.edu/resources/best-practices/IDPs

https://myidp.sciencecareers.org

https://nigms.nih.gov/training/strategicplanimplementationblueprint/Pages/IndividualDevelopmentPlan s.aspx

How do I know when I can go forward with writing my thesis and scheduling my defense?

Once you and your advisor agree on a timeframe for the defense, you will outline your plans during the annual thesis committee meeting, or schedule a committee meeting several months ahead of the intended defense date. Your PhD committee may make recommendations regarding your data, publications, timeline, and future plans.

Format and Content of the Thesis

Your thesis should conform to Institute guidelines in format and style. Please see the online style manual (<u>https://grad.gatech.edu/sites/default/files/documents/thesisDissertationManual-August2024.pdf</u>) for detailed instructions on preparing your thesis. In addition to the university guidelines, the School of Biological Sciences requires that some portion of the PhD candidate's research must have been submitted for publication in a refereed scientific journal before the thesis defense. The thesis advisory committee may further require that a portion of the dissertation be accepted for publication with you as first author prior to the defense. Documentation that this requirement has been fulfilled must be presented with the graduation petition.

PhD Thesis Presentation and Defense

PhD students must make a public presentation and defense of their thesis. The thesis defense consists of a public seminar followed by an oral examination by the student's thesis advisory committee. The final defense must be administered by a committee of five faculty members, composed of your advisor, three members of the academic faculty of the School of Biological Sciences, and at least one member from outside the School of Biological Sciences.

A final draft of the thesis and copies of submitted/published manuscripts must be given to each member of the thesis advisory committee and made available for review by the School of Biological Sciences faculty at least two weeks prior to the defense. The thesis defense must be scheduled and announced through the Biological Sciences main office at least two weeks in advance.

Following the thesis defense and upon completion of any final changes to the thesis, the members of your thesis advisory committee must sign a Certificate of Thesis Approval form and Thesis Defense Evaluation form, which must also be signed by the Graduate Coordinator before final submission.

The deadlines for thesis submission for graduation each term are available from the graduate school at <u>https://grad.gatech.edu/theses-dissertations/deadlines</u>. Failure to meet all deadlines may cause a delay in graduation date.

PhD thesis evaluation criteria

To help you understand critical criteria for the evaluation of your dissertation, we are including the following rubric:

Rubric for Dissertation Evaluation

The dissertation evaluation serves not only to evaluate student ability to carry out independent research, but also to evaluate student ability in data analysis and critical review of results. The dissertation is evaluated by the dissertation committee of faculty, according to a rubric with four categories:

Outstanding (above 90-100%)

Very organized and well written/presented; the writing is clear, concise, critical, persuasive, and compelling; is focused, coherent, and organized around a major theme or question; is original and significant; addresses a very important issue or answers a long-standing question; has well-planned and well- performed experiments; uses or develops new tools, methods, approaches, or new types of analyses; has a very significant new discovery; the conclusion ties the whole thing together; has an impact on theory; opens up a new area for research; will move the field in a new direction.

Very good (above 80-90%)

Solid work; has an argument; is well written/presented, well organized, and broad in scope; demonstrates understanding of all aspects of the subject; has a novel, timely question or may look at an old question with a new approach or a new analytical method; uses appropriate techniques and analyses; the data is very well done and provides solid answers; is original and significant but may confirm an already known answer; the quality of the science is good, however, will not necessarily have a huge impact on the field.

Acceptable (above 70-80%)

Student has done a significant amount of work reasonably well; writing is well done and organized but may be excessive; has a few innovative aspects but lacks originality; the science is acceptable but not particularly good science; shows acquaintance with the key papers but does not really discuss what is important about them; the experiments are reasonably well done; has all the right controls; adds data to an existing hypothesis; the results are useful but not exciting; may confirm what is already known; is not a particularly meaningful contribution.

Unacceptable (70% or below)

The quality of the science shows a lack of depth of understanding the project; does not make an original contribution; the writing has no storyline or argument, has spelling, and grammatical errors; does not have a good question; the experiments are poorly done and analyzed; the quality of the data collection and statistical analyses is poor; may have engaged in unethical behavior; inaccurate and/or misinterpreted data; draws invalid conclusions from the data; does not (cannot) explain what has been done or what it all means.

Required Forms and Petitions for Biology PhD Students

Thesis Advisory Committee Membership Form

This form defines and requests graduate committee approval of the membership of your thesis committee. This form must be submitted to the Biology graduate office by the end of your second semester in the program.

https://biosciences.gatech.edu/sites/default/files/documents/thesis_committee_membership_form.p df

Preliminary Program of Study Form

You should prepare a Preliminary Program of Study Form as early as possible in consultation with your thesis advisor and with the approval of your thesis committee. A copy of the approved form must be submitted to the Biology graduate office to be placed in your file by the end of your 12th month in the program.

https://biosciences.gatech.edu/sites/default/files/images/program_of_study_phd2.pdf

Thesis Advisory Committee Meeting Report

A copy of this form must be filed with the Biology graduate office every year to document progress and report the outcome of the annual thesis advisory committee meeting. The student section should be completed PRIOR to the meeting. Your committee members will complete the remainder during the meeting. Submit the signed and completed form to the Biology graduate office.

PhD: https://biosciences.gatech.edu/sites/default/files/documents/thesis_committee_meeting.pdf

Thesis Advisory Committee Meeting Evaluation Form Report

A copy of this form must be filed with the Biology graduate office following each annual thesis advisory committee meeting. Your committee members will complete the form immediately following the meeting. Submit the signed and completed form to the Biology graduate office.

https://biosciences.gatech.edu/sites/default/files/images/evaluation_form_1_0.pdf

Request for Approval of a Doctoral Minor Form

After completing the nine course credits necessary for the doctoral minor, file the Request for Approval of a Doctoral Minor Form. This form must be signed by your advisor and the Graduate Coordinator before submittal to the Dean of Graduate Studies. The Graduate Coordinator's signature may be obtained in the Biology graduate office.

https://grad.gatech.edu/theses-dissertations-forms

Qualifying Exam Evaluation Form

A copy of this form must be filed with the Biology graduate office following the completion of your qualifying exams. Your committee members will complete the form immediately following your exam. Submit the signed and completed form to the Biology graduate office.

https://biosciences.gatech.edu/sites/default/files/images/qualifying_exam_0.pdf

Request for Admission to Candidacy Form

This form is completed in two steps:

- 1. The first step seeks approval of the thesis topic. Complete the top portion of the form and have your advisor, thesis committee members, and the School Chair sign the form. Submit this form to the Biology graduate office, where it will be kept in your academic file.
- 2. After you have successfully passed the qualifying exams, the Graduate Coordinator completes Part II of the form, and then it is submitted to the Graduate Studies office by the Biology graduate office.

https://grad.gatech.edu/theses-dissertations-forms

Approved Program of Study Form

Prepare a copy of the Program of Study Form to submit to the Registrar's office with the Petition for Degree.

Degree Petition

Your degree petition must be submitted during the semester **before** your term of graduation. Deadlines are posted at <u>http://www.registrar.gatech.edu/students/calendar.php</u>. Complete and submit an Online Application for Graduation (OAG) at <u>https://registrar.gatech.edu/info/online-application-graduation-oag-graduate-students</u>. Please read the instructions on the website and follow them carefully.

If you do not graduate the first time you petition, you must request a deactivation of your current petition and resubmit a new OAG. Reactivated degree petitions **must** be submitted by the end of Phase II registration for the term during which you wish to graduate.

Thesis Defense Evaluation Form

https://biosciences.gatech.edu/sites/default/files/images/thesis_defense_evaluation_1_0.pdf

Certificate of Thesis Approval for Doctoral Students

This form is completed and signed after your thesis defense and the completion of any necessary modifications or additions to your thesis. The Graduate Coordinator is the last to sign the form, after which the Biology graduate office can submit the document to Graduate Studies on your behalf.

https://grad.gatech.edu/theses-dissertations-forms

Biology PhD Program Timetable

FORM or ACTION	TIMING or DEADLINE ¹
Take courses	First year, some courses may be taken during the second year
Rotate through labs of interest	First year
Select a faculty advisor from among the faculty of the School of Biological Sciences	As early as possible and no later than the end of your 12 th month in the program
In consultation with your advisor, form your thesis advisory committee including at least three biology faculty. Submit the Thesis Committee Membership Form to the Biology graduate office	As early as possible and no later than the end of your 12 th month in the program
Meet with your thesis committee and fill out a Preliminary Program of Study Form . Submit the completed form to the Biology graduate office	As early as possible and no later than the end of your 12 th month in the program
Submit your Approval of Doctoral Minor Form to the Biology graduate office and to Graduate Studies	As soon as you complete the nine credits required for the minor
Request approval of your thesis topic by filling out the upper portion of the Request for Admission to PhD Candidacy Form , then submit it to the Biology graduate office	After completing your preliminary program of study
Take the written part of the qualifying exam , which ideally takes place in the beginning of spring semester	Normally taken in January, and no later than in March of your 2 nd year in the program
Take the oral part of the qualifying exam. Submit the "Qualifying Exam Evaluation Form".	Within three months of passing the written qualifying exam, or end of your 2 nd year, whichever is later
Have the Request for Admission to PhD Candidacy Form signed by the Graduate Coordinator, then it is submitted to Graduate Studies by the Biology graduate office	After passing the oral exam

¹ Unless otherwise noted, the deadlines are for submission of forms to the Biology graduate office.

FORM or ACTION	TIMING or DEADLINE ¹
Carry out your research and publish at least one refereed paper. The large majority of our PhD students publish at least one first-author paper.	As early and quickly as possible
Meet with your thesis committee at least annually. Submit a Thesis Committee Meeting Form and Thesis Committee Meeting Evaluation Form signed by the members of your committee to the Biology graduate office.	Once a year.
If necessary, you can modify your thesis committee membership by submitting a revised Thesis Committee Membership Form to the Biology graduate office.	As necessary, but no later than one semester prior to thesis defense
Write your thesis. See the "Manual for Graduate Theses," available from the Graduate Studies office.	As early and quickly as possible
Teach at least one course (3 credit hours or more of GTA time) as a teaching assistant.	No later than the end of your 4 th year in the program
Submit a Petition for Degree and Approved Program of Study Forms to the Biology graduate office.	Submit these forms by the deadline announced by the registrar's office, which will always be the semester before graduation
Schedule your thesis presentation and defense.	At least two weeks prior to the presentation, notify the administrative assistant in the school's main office of the desired date and time to arrange for a room and announcement
Distribute the final draft of your thesis and any submitted or published papers: one copy to each committee member and one copy to the graduate coordinator.	As early as possible but no later than two weeks prior to thesis defense
Submit the Certificate of Thesis Approval Form and a copy of your completed thesis to the Institute Graduate Studies and Research Office.	After your defense and by the Registrar's deadline

Please refer to our website (<u>http://biosci.gatech.edu/graduate/current-students</u>) for access to various forms mentioned above.

Master of Science (MS) Degree Programs

The School of Biological Sciences offers three programs of study leading to the master's degree:

- Master of Science in Biology with thesis
- Master of Science in Biology without thesis
- Professional Master of Science in Bioinformatics

For the MS in Biology programs, you should plan your activities to complete the program in two years of full-time study. The Professional Master of Science in Bioinformatics program is a rigorous interdisciplinary three-semester program of study, with summers spent in internships within the field.

Students admitted to the Masters degree program in the School of Biological Sciences are enrolled in a non-thesis program of study. If a student wishes to obtain a Masters degree with Thesis, he or she may petition the Graduate Committee for approval along with support from their thesis advisor.

Master of Science in Biology with Thesis

The MS degree reflects advanced training and a detailed knowledge of a specific area within biology. The MS in Biology (with thesis) is intended for students wishing to obtain a strong background in modern biology and independent research experience in preparation for a wide range of career options. Some students complete an MS degree as a stepping stone toward a PhD, though this is not a necessary prerequisite to most PhD programs.

Course requirements for MS Biology thesis students

Students are required to complete 36 credit hours of coursework, including 12 credit hours in biology, and nine credit hours of master's thesis research. A maximum of nine credit hours of formal class work from another MS degree program relevant to the student's program may be transferred. These credits do not count toward the GPA requirement since they are credited as transfer courses. A summary of the requirements is as follows:

Coursework	Credit Hours
Biology graduate courses (BIOL 6000-9000) with a letter grade	12
MS thesis (BIOL 7000)	9
Special Problems – Research (BIOL 890X)	7
Biology Seminar (BIOL 8002 and BIOL 8003)	2
Other biology courses (4000 or higher) with a letter grade	6
Total Required	36

Good Standing

To remain in good standing within the program, you must maintain a GPA of 2.7 while making progress toward the degree. The major milestones used in evaluating progress are summarized below. The graduate committee reviews the status of each student at least once a year in consultation with the student's advisor and committee. Students who fail to maintain good standing may be dismissed from the program.

Registration

Full-time enrollment is required of all students receiving assistantships or fellowships and for international students on visas. Full-time students must be enrolled for at least 12 credit hours, preferably 21 credit hours, on a letter grade or pass-fail basis. Please consult with your faculty advisor and the Graduate Coordinator for assistance with required courses. For general registration questions, please contact the Graduate Office. All graduate research assistants should register for the GRA course BIOL 8998 for audit and all graduate teaching assistants should register for the GTA course BIOL 8997 for audit. Most students register for 16 (summer semester) or 21 (fall, spring semesters) credit hours in which some of these are the required audit hours mentioned above.

Thesis Advisor and Committee

Your thesis advisor acts as chair of your thesis advisory committee and has primary responsibility for advising you in your research. Normally, a thesis advisor must be a member of the tenure-track faculty of the School of Biological Sciences. Under special circumstances and with the approval of the Graduate Committee, courtesy, adjunct or research faculty in Biological Sciences or faculty in another school at Georgia Tech may act as co-advisor for a Biology graduate student in collaboration with a thesis advisor from the School of Biological Sciences. In such cases, a written statement must be filed specifying who will be responsible for advising and supporting the student. The statement should also detail plans in the event the co-advisor is no longer available.

You should consult with your advisor about the membership of your thesis committee beginning in your first year of studies. The thesis committee must have at least three members including two members of the faculty of the School of Biological Sciences and at least one member from outside the School of Biological Sciences. The composition of your committee may change as your studies progress, and it is very common to add members to your committee as you carry out your research. Thesis advisory committees must be approved by the Graduate Committee.

The thesis committee's role is to advise you on all aspects of your graduate studies. Your first committee meeting must occur before the end of your 12th month in the program and annually thereafter. Your preliminary program of study must be discussed and approved at your first meeting with your thesis committee.

Annual Thesis Committee Meetings

You are responsible for meeting with your thesis committee at least once each year (including your first year in the program) to present an overview of your research progress and to consult with the committee on the work remaining to be done. After this meeting, you must file a Thesis Committee Meeting form and Thesis Committee Meeting Evaluation form signed by the members of your committee and giving a summary of your progress to date and work planned for the future.

MS Thesis Topic and Format

Once you have defined your research project and made some progress in your research, the Institute's **Request for Approval of Master's Thesis Topic Form** must be completed and approved by your thesis committee and the School Chair. This form must be submitted at least one semester before the thesis is defended.

You must submit a well-written thesis describing your research accomplishments. Research results that could constitute co-authorship on a paper/manuscript are generally expected (even if unpublished during the MS), a paper is very good, and the details of the requirement need to be discussed with the advisor and committee as they will be specific to the research field. Your thesis should conform to university guidelines in format and style. Please see the online style manual (<u>http://grad.gatech.edu/theses-dissertations</u>) for detailed instructions on preparing your thesis. Your thesis committee may require that some portion of your thesis be submitted and/or accepted for publication prior to your defense.

MS Thesis Presentation and Defense

MS students must make a public presentation and defense of their thesis. The thesis defense consists of a public seminar followed by an oral examination by the student's thesis committee.

A final draft of the thesis must be given to each member of the thesis advisory committee and made available for review by the School of Biological Sciences faculty at least two weeks prior to the defense. The thesis defense must be scheduled and announced through the Biological Sciences main office at least two weeks in advance.

Following the thesis defense and upon completion of any final changes to the thesis, the members of the thesis committee must sign a Certificate of Thesis Approval Form, which must also be signed by the Graduate Coordinator before final submission. A Thesis Defense Evaluation form needs to be submitted as well.

The deadlines for thesis submission for graduation each term are available from the graduate school at <u>http://www.grad.gatech.edu/theses-dissertations-deadlines</u>. Failure to meet all deadlines may cause a delay in graduation date.

MS thesis evaluation criteria

To help you understand critical criteria for the evaluation of your dissertation, we are including the rubric* below. The dissertation evaluation serves not only to evaluate student ability to carry out independent research, but also to evaluate student ability in data analysis and critical review of results. The dissertation is evaluated by the dissertation committee of faculty, according to a rubric with four categories:

Outstanding (above 90-100%)

Very organized and well written/presented; the writing is clear, concise, critical, persuasive, and compelling; is focused, coherent, and organized around a major theme or question; is original and significant; addresses a very important issue or answers a long-standing question; has well-planned and well- performed experiments; uses or develops new tools, methods, approaches, or new types of analyses; has a very significant new discovery; the conclusion ties the whole thing together; has an impact on theory; opens up a new area for research; will move the field in a new direction.

Very good (above 80-90%)

Solid work; has an argument; is well written/presented, well organized, and broad in scope; demonstrates understanding of all aspects of the subject; has a novel, timely question or may look at an old question with a new approach or a new analytical method; uses appropriate techniques and analyses; the data is very well done and provides solid answers; is original and significant but may confirm an already known answer; the quality of the science is good, however, will not necessarily have a huge impact on the field.

Acceptable (above 70-80%)

Student has done a significant amount of work reasonably well; writing is well done and organized but may be excessive; has a few innovative aspects but lacks originality; the science is acceptable but not particularly good science; shows acquaintance with the key papers but does not really discuss what is important about them; the experiments are reasonably well done; has all the right controls; adds data to an existing hypothesis; the results are useful but not exciting; may confirm what is already known; is not a particularly meaningful contribution.

Unacceptable (70% or below)

The quality of the science shows a lack of depth of understanding the project; does not make an original contribution; the writing has no storyline or argument, has spelling, and grammatical errors; does not have a good question; the experiments are poorly done and analyzed; the quality of the data collection and statistical analyses is poor; may have engaged in unethical behavior; inaccurate and/or misinterpreted data; draws invalid conclusions from the data; does not (cannot) explain what has been done or what it all means.

*Please note that while the rubric is similar to the rubric for the PhD, the type of degree and the different timeframes are taken into account during the evaluation.

Transfer to the PhD Program

A student may request to transfer from the MS program to the PhD program via written petition and with approval of the Graduate Committee and Chair. Students admitted to the MS program cannot petition for a change to PhD until they complete at least nine credit hours of 6000-8000 level graduate courses at Georgia Tech. The Graduate Committee must approve the transfer to the PhD program. The Masters student applies to the PhD program and will be evaluated among the pool of applicants.

Required Forms and Petitions for MS Students

MS Thesis Committee Membership Form

This form defines and requests departmental approval of the membership of your thesis committee. Complete and submit this form to the Biology graduate office by the end of your 12th month in the program.

MS Program of Study Form

You should prepare a MS Program of Study Form as early as possible in consultation with your thesis advisor and with the approval of your thesis committee. A copy of the approved form must be

submitted to the Biology graduate office to be placed in your file by the end of your 12th month in the program.

MS Thesis Committee Meeting Report

A copy of this form must be filed with the Biology graduate office every year to document progress and report the outcome of the annual thesis committee meeting. Your section ("Student Section") should be completed PRIOR to the meeting. Your committee members will complete the remainder during the meeting. Submit the signed and completed form to the Biology graduate office.

Thesis Advisory Committee Meeting Evaluation Form Report

A copy of this form must be filed with the Biology graduate office following each thesis advisory committee meeting. Your committee members will complete the form immediately following the meeting. Submit the signed and completed form to the Biology graduate office.

Request for Approval of Master's Thesis Topic Form

The Request for Approval of Master's Thesis Topic Form must be completed and approved by the thesis committee at least one semester before you defend your thesis. Once the form is signed by the Chair of the School, you should submit it to the Graduate Studies office with one copy submitted to the Biology graduate office at the same time.

Approved Program of Study Form

Prepare a clean and final copy of the Program of Study Form to submit to the Degree Certification office with the degree petition.

Degree Petition

Your degree petition must be submitted during the semester **before** your term of graduation. Deadlines are posted at <u>http://www.registrar.gatech.edu/students/calendar.php</u>. Complete and submit an Online Application for Graduation (OAG) at <u>https://registrar.gatech.edu/info/online-application-graduation-oag-graduate-students</u>. Please read the instructions on the website and follow them carefully.

If you do not graduate the first time you petition, you must request a deactivation of your current petition and resubmit a new OAG. Reactivated degree petitions **must** be submitted by the end of Phase II registration for the term during which you wish to graduate.

Certificate of Thesis Approval for MS Students

This form is completed and signed after your thesis defense and completion of any necessary modifications or additions to your thesis. The Graduate Coordinator is the last to sign the form, after which you should submit it to the Graduate Studies office. A copy must be made for the Biology graduate office before submission of the form.

Timetable for MS Degree with thesis

FORM or ACTION	DEADLINE ²
Select a faculty advisor from among the faculty of the School of Biological Sciences	By the end of the 2 nd semester
Choose a thesis committee with at least two Biological Sciences faculty and one external faculty. Submit a Thesis Committee Membership Form to the Biology graduate office	By the end of the 12 th month in the program
Fill out and submit a Program of Study Form in consultation with your committee and submit to the Biology graduate office	By the end of the 12 th month in the program
Fill out and submit a Request for Approval of Master's Thesis Topic Form	As early as possible, but no later than one semester prior to thesis defense
Carry out your research	As early and quickly as possible
Meet with your thesis committee at least annually. File a Thesis Committee Meeting Form and Thesis Committee Meeting Evaluation Form signed by the members of your committee to the Biology graduate office	Once a year
Write your thesis.	As early and quickly as possible
Submit the Petition for Degree and Approved Program of Study forms to the Registrar	Submit these forms by the Registrar's deadline (~3 weeks prior to the end of the semester preceding the semester of graduation)
Schedule your thesis presentation and defense	Two weeks prior to the presentation, notify the administrative assistant in the Biological Sciences main office of the desired date and time to arrange for a room and announcement
Distribute the final draft of your thesis: one copy to each committee member and one copy to the Biology graduate office	As early as possible but no later than two weeks prior to thesis defense
Submit the Certificate of Thesis Approval Form and a copy of your completed thesis to the Graduate Studies office.	After your defense and by the Registrar's deadline

 $^{^2}$ Unless otherwise noted, the deadlines are for submission of forms to the Biology graduate office.

Master of Science in Biology without Thesis

The non-thesis MS degree reflects advanced study in a specific area within biology. This degree program is best suited for students who wish to pursue careers, e.g. in consulting firms or regulatory agencies, that do not require experience in laboratory research.

Course Requirements for MS Biology nonthesis students

Students are required to complete 36 credit hours of coursework, including 21 credit hours in biology. A maximum of nine credit hours of formal coursework from another MS degree program relevant to the student's program may be transferred. These credits do not count toward the GPA requirement since they are credited as transfer courses.

Coursework	Credit Hours
Biology graduate courses (BIOL 6000-9000) with a letter grade	15
Other graduate courses (6000-9000) with a letter grade. These may be taken in biology or other departments	9
Other biology courses (4000 or higher) with a letter grade	6
Special Problems – Research (BIOL 890X)*	4
Biology Seminar (BIOL 8002 and BIOL 8003)*	2
Total Required	36

*A maximum of four credit hours of Special Problems – Research (BIOL 890X) and three credit hours of seminar courses may be counted toward the MS course requirements.

GPA Requirements

To remain in good standing within the program, you must maintain a GPA of 2.7 while making progress toward the degree. The major milestones used in evaluating progress are summarized below. The Graduate Committee reviews the status of each student at least once a year in consultation with the student's advisor and committee. Students who fail to maintain good standing may be dismissed from the program.

Evaluation of Student Content Knowledge Competence

In the course of their internship within the MS-Biology Program for non-thesis students, all the MS students are required to take a Special Problems research class (BIOL 890X). The class is taken under the supervision of one professor. The student will write a research paper or report on the research they conduct during the course of the semester. The supervising professor evaluates whether a student demonstrated content knowledge according to a rubric with four categories (outstanding, very good, acceptable, unacceptable):

Outstanding (above 90-100%)

Very organized and well written/presented; the writing is clear, concise, critical, persuasive, and compelling; is focused, coherent, and organized around a major theme or question; is original and significant; addresses a very important issue or answers a long-standing question; has well-planned and well- performed experiments; uses or develops new tools, methods, approaches, or new types of analyses; has a very significant new discovery; the conclusion ties the whole thing together; has an impact on theory; opens up a new area for research; will move the field in a new direction.

Very good (above 80-90%)

Solid work; has an argument; is well written/presented, well organized, and broad in scope; demonstrates understanding of all aspects of the subject; has a novel, timely question or may look at an old question with a new approach or a new analytical method; uses appropriate techniques and analyses; the data is very well done and provides solid answers; is original and significant but may confirm an already known answer; the quality of the science is good, however, will not necessarily have a huge impact on the field.

Acceptable (above 70-80%)

Student has done a significant amount of work reasonably well; writing is well done and organized but may be excessive; has a few innovative aspects but lacks originality; the science is acceptable but not particularly good science; shows acquaintance with the key papers but does not really discuss what is important about them; the experiments are reasonably well done; has all the right controls; adds data to an existing hypothesis; the results are useful but not exciting; may confirm what is already known; is not a particularly meaningful contribution.

Unacceptable (70% or below)

The quality of the science shows a lack of depth of understanding the project; does not make an original contribution; the writing has no storyline or argument, has spelling, and grammatical errors; does not have a good question; the experiments are poorly done and analyzed; the quality of the data collection and statistical analyses is poor; may have engaged in unethical behavior; inaccurate and/or misinterpreted data; draws invalid conclusions from the data; does not (cannot) explain what has been done or what it all means.

Advisor

The Biology Graduate Coordinator provides general advice and guidance for non-thesis MS students. In most instances, a member from the Graduate Committee is assigned to be the MS non-thesis student's general advisor.

Required Forms and Petitions for MS (non-thesis) Students

MS Program of Study Form

You should prepare a MS Program of Study Form as early as possible in consultation with your faculty advisor. A copy of the approved form must be submitted to the Biology graduate office to be placed in your file by the end of your second semester in the program.

MS Evaluation of Student Content Knowledge Competence From

http://biosci.gatech.edu/sites/default/files/documents/ms_nonthesis_0.pdf

Degree Petition

Your degree petition must be submitted during the semester **before** your term of graduation. Deadlines are posted at <u>http://www.registrar.gatech.edu/students/calendar.php</u>. Complete and submit an Online Application for Graduation (OAG) at <u>https://registrar.gatech.edu/info/online-application-graduation-oag-graduate-students</u>. Please read the instructions on the website and follow them carefully.

If you do not graduate the first time you petition, you must request a deactivation of your current petition and resubmit a new OAG. Reactivated degree petitions **must** be submitted by the end of Phase II registration for the term during which you wish to graduate.

Any current PhD student requesting an MS in Biology without thesis degree must get approval from their thesis advisor one semester prior to submitting their Petition for Degree to the Registrar's office.

FORM or ACTION	DEADLINE ³
Select a faculty advisor from among the faculty of the School of Biological Sciences	Ideally, during the 1 st semester, and no later than the end of the 2 nd semester in the program
Fill out a Program of Study Form, Evaluation of Student Content Knowledge Competence Form in consultation with your advisor and submit the completed form to the Biology graduate office	By the end of the 2 nd semester in the program
Submit the Petition for Degree and Approved Program of Study forms to the Registrar	Submit these forms by the Registrar's deadline (~3 weeks prior to the end of the semester preceding the semester of graduation)

Timetable for Master's Degree without Thesis

³ Unless otherwise noted, the deadlines are for submission of forms to the Biology graduate office.

General Information and Policies

Athletic Facilities

The Georgia Tech Campus Recreation Center underwent a major renovation in two phases to produce a \$45 million recreation complex. The center boasts an enclosed aquatic center, new weight and cardio rooms, three aerobics/martial arts rooms, six multi-use basketball courts with a four-lane jogging track suspended above, and a game room. The complex is about the size of a basketball coliseum and includes a pool with a water slide, hot tub, and sun deck. Recreation opportunities include the Sport Club program, which allows students to compete in a particular sport throughout the year; intramural sports, which range from traditional sports to more exotic sports including ultimate Frisbee and inner tube water polo; fitness and options classes; and Outdoor Recreation at Georgia Tech (ORGT), which includes opportunities for backpacking, caving, mountain biking, whitewater kayaking, canoeing, and rock climbing. Membership is automatically included in the mandatory student fees.

Biological Sciences Graduate Student Association (BSGSA)

The Biological Sciences Graduate Student Association (BSGSA) is an integral part of the Georgia Tech School of Biological Sciences. The purpose of BSGSA is to enhance communication between faculty and graduate students as well as promote camaraderie between students in different buildings and research areas within the department. All graduate students are members of BSGSA, and five students are elected each spring to serve as officers. Officer positions include President, Vice President, Secretary/Treasurer, Social Director, and Intramurals Director. The BSGSA holds monthly business meetings to inform students of upcoming events in the department. During business meetings, students may air concerns or problems encountered at Georgia Tech and seek guidance from other students. In some instances, officers relate problems encountered by students to faculty or administrators in order to work out suitable solutions. In addition to the business meetings, BSGSA organizes intramural teams and relates information regarding dates and times of practices and games. The BSGSA also participates in fun activities several times during the year.

In addition to meetings and activities, the BSGSA plays a key role in the interview process for prospective graduate students by providing a student perspective on the School of Biological Sciences. The BSGSA sometimes organizes a symposium for the department that features research from graduate students within the department. The BSGSA also invites a guest scientist to present a departmental seminar during the spring term and is responsible for coordinating events associated with the guest's visit. Other important BSGSA activities include social events for either graduate students or the entire department.

Bookstore

The Barnes & Noble Georgia Tech Bookstore is located in Technology Square directly across the Downtown Connector from campus on 5th Street.

BuzzCard (Student I.D. Card)

Your student photo I.D. card or "BuzzCard" is used to access a number of campus facilities (CRC, Student Health Services, etc.), can be used as a purchasing card, and also serves as your library card

(see <u>www.BuzzCard.gatech.edu</u> for a listing of all places on campus that accept BuzzCards and how to add money to your card account). BuzzCards are made at the BuzzCard office in the Campus Bookstore. There can be a long line during orientation. In order to obtain a BuzzCard, you will need a picture I.D. (i.e.: driver's license, passport).

Computing Resources

Your GT account, sometimes referred to as your Computer ID, gives you access to an e-mail account and other services. Your GT account is the official e-mail account used by the School of Biological Sciences for communications. In addition to imap mail servers, all students have access to Georgia Tech's web-based email system (<u>http://mail.gatech.edu/</u>), which provides a web browser interface to your email account. This is often the best way to access your campus e-mail account while off campus.

The computer support specialist for the School of Biological Sciences is Troy Hilley, located in room 338 Cherry Emerson. Troy may be reached at 404-790-1270. Troy is available to help our department with both software and hardware issues. For the fastest response, please e-mail him a request at <u>helpdesk@biology.gatech.edu</u>. This address is part of an OIT-based monitoring system to make sure your request is handled promptly and effectively.

Classroom Mobile Lecterns

Most classrooms for the School of Biological Sciences are equipped with mobile lecterns. These lecterns provide a computer and VCR to aid with classroom instruction. You will need a valid faculty Georgia Tech ("prism") ID to log onto the computer. Student IDs will not work. You will receive a faculty ID when you receive your student ID information, so that you may access these lecterns.

The classroom lecterns are installed and maintained by OIT. If you have any questions or concerns regarding the mobile lecterns, then please contact the OIT helpdesk at 404-894-7173 or go to the 2nd floor of the Clough Commons Building and ask for assistance.

Copiers, Fax Machines, Phones

The School of Biological Sciences has photocopiers available in Cherry Emerson (CE), the Ford Environmental Science and Technology building (ES&T), and the Engineered Biosystems Building (EBB). You can get an account number to use the photocopiers from Jasmine Martin in the main Biological Sciences office (EBB Biological Sciences Administrative Suite). Photocopiers are for educational and research purposes only. Violators will have their accounts revoked.

The School of Biological Sciences also has two fax machines available: one in 208 Cherry Emerson (404-894-0519) and one in 2154 ES&T (404-385-4440). All long distance faxes must be for educational or research purposes only. Personal local faxes are acceptable.

Graduate students generally do not have phones located in their offices. All faculty research labs are equipped with phones and can be used as a point of contact for students in that lab, at the faculty member's discretion. State law mandates that no personal long distance calls are allowed on School of Biological Sciences phones.

Counseling Services

The Georgia Tech Counseling Center supports the academic mission of the Institute by providing counseling and psychotherapy to students as well as crisis intervention. The Counseling Center is

located in room 238 of the Smithgall Student Services Building (404-894-2575, www.counseling.gatech.edu). Their services include:

- Individual/group counseling
- Marriage/couples counseling
- Help in choosing a major
- Computer-assisted career guidance program (SIGI PLUS)
- Interest and personality testing
- Assistance in obtaining career information
- Computer assisted study skills instruction program (CASSI-GT)
- Written and video taped information on majors
- Information about other colleges and universities, graduate and professional schools
- Applications for national tests (<u>GRE</u>, <u>GMAT</u>, <u>LSAT</u>, <u>MCAT</u>)
- Referral sources

Dean of Students

The Office of the Dean of Students (<u>http://www.deanofstudents.gatech.edu</u>) provides access to a broad range of information, resources, and referrals in connection with student life and academic affairs on campus.

E-Mail

E-mail accounts are available to all Georgia Tech students. During your first semester, an account will be created for you 24 hours after you have registered for classes. Your computer account, personal password and other information can be obtained accessing <u>https://passport-prod.gatech.edu/</u>. Throughout the year, visit the Office of Information Technology on the 2nd floor of the Clough Commons Building for any questions concerning your e-mail account. Please note that your professors will use your student address for correspondence.

Emergencies

In an emergency situation, **DO NOT CALL 911.** Call the Georgia Tech Police at 404-894-2500. The GT Police will get the appropriate emergency vehicles to your location more quickly than the city police department.

Employment Forms

If you are going to be employed on campus (i.e., as a GRA or GTA), you will be obtaining your necessary documents to work at your initial School of Biological Sciences orientation session. You will need to complete these documents and turn them in to Human Resources. If you are unable to attend the Biology graduate student orientation, please see Nena Gray, Financial Manager, and she is located in Engineered Biosystems Building School of Biological Sciences' administrative suite on the 2nd floor.

Assistantships (GTAs, GRAs) and Fellowships

Three types of financial aid are currently available to qualified graduate students in Biology:

- Graduate Teaching Assistantships (GTAs) and Graduate Research Assistantships (GRAs), which include tuition waivers
- Outside fellowships (sponsored by NIH, NSF, EPA, etc.)

GRAs, GTAs, and most fellowships are awarded on the basis of academic performance as well as proven commitment during previous assignments, and not on the basis of need. However, if you have a demonstrated need, you may apply to the Georgia Tech Office of Student Financial Planning in the Student Success Center for employment under the federal work-study program or for student loans (http://www.finaid.gatech.edu/).

Graduate Teaching Assistantships and Graduate Research Assistantships

Assistantships are forms of employment and, as such, involve a responsibility to perform to the satisfaction of the supervisor. A one-third time assistantship requires that an average of 14 hours/week be devoted to the assigned activities during the semester.

http://www.policylibrary.gatech.edu/academic-affairs/graduate-student-enrollment-and-employment Successful and timely completion of a PhD dissertation generally requires that you spend significantly more than 14 hours/week on thesis research.

Most PhD students in Biology are offered a teaching assistantship upon admission to the graduate program. This aid is promised for the first 12 months of the program. Before the end of the initial one-year TA commitment, students are expected to decide on a faculty member with whom they would like to work and seek a commitment from that faculty member for full GRA support for their entire time in the program. Any GTA support beyond the first year is provided only by recommendation from the Graduate Committee and approval by School administration (Chair/Associate Chair), and should by no means be assumed automatically. Each semester, a support form/survey must be submitted to the Biology graduate office to inform the department of the particular type of support you request in the upcoming semester. Only information that has been discussed with the student's advisor should be entered in the survey. The Graduate Committee performs a review of all graduate students each semester and makes a recommendation to either continue or discontinue financial support for each student based on their academic performance and satisfactory progress toward the degree.

Students receiving a GTA or GRA assignment are expected to take courses related to their degree program and should not take courses towards a second degree in another area. Assistantships may be revoked if a student pursues coursework towards another degree.

MS thesis and non-thesis students are not offered teaching or research assistantships upon acceptance into the program. Thesis MS students may apply for GTA support in the same way as a PhD beyond their first year (see above). They are considered in a lower priority group, compared to PhD students, and are supported only if sufficient funds are available (this can not be guaranteed beforehand). Non-thesis students in the MS degree program are not supported by the School of Biological Sciences for a GTA. Exception is made only for MS students in the Bioinformatics (BINF) Program who have already paid full tuition previously and are recommended by the group of Bioinformatics and Computational Biology Faculty (confirmed by The Graduate Committee) for support from MS-BINF program funds. MS students in any category can be supported by GRA from a faculty member at the faculty member's discretion. Salary rates for GTA's and GRA's are determined according to School of Biological Sciences policy and depend on student status (PhD, thesis MS, non-thesis MS, MS bioinformatics)

External Fellowships

All graduate students are encouraged to apply for external fellowships from NIH, NSF, EPA, HHMI, NOAA and other agencies. These fellowships usually offer multiple years of support and may provide a supply allowance as well as a stipend. For more information, talk to your faculty advisor or see the Georgia Tech Graduate Studies and Research Office website: <u>http://www.grad.gatech.edu/fellowships</u> which maintains an excellent page on fellowship information. In addition, GrantForward is a website on graduate fellowships (<u>https://www.grantforward.com/index</u>).

Students on external fellowships are expected to maintain strong academic performance and progress in their programs of study. External fellowships often require an annual progress report to maintain funding.

Registration requirements for students receiving GRAs, GTAs and fellowships

Full-time enrollment is required of all students receiving assistantships or fellowships and for international students on visas. Full-time students must be enrolled for at least 12 credit hours (preferably 21 credit hours for fall/spring, 16 credit hours for summer) on a letter grade (coursework) or pass-fail basis (thesis hours, GTA & GRA course registration). The advisor and school chair may approve the substitution of one course (up to three hours) on an audit basis for fall and spring semesters, and two courses (up to six hours) on an audit basis for summer semesters only for special circumstances. Full-time students working exclusively on thesis research should be registered for 18 or more hours of 7000 or 9000 (master's or doctoral thesis) in fall and spring semesters, and for up to 16 hours during summer semesters. If you do not register properly, the Bursar's office will automatically bill you for your tuition and you will not receive a salary or stipend check until the registration problem is corrected. There is a very limited window of time to correct registration errors at the beginning of each semester.

Outside employment

If you have an assistantship, outside employment is prohibited without special permission from the Graduate Committee.

Employed International Students

If you hold an F-1 or J-1 visa and seek outside employment, you must contact the Office of International Education at 404-894-7475. The rules and policies governing the employment of students on visas may be found at <u>http://www.oie.gatech.edu/</u>.

Good Academic Standing

As a graduate student, you must maintain a satisfactory grade point average to remain in good academic standing. The minimum satisfactory GPA is 2.70 for MS students and 3.00 for PhD students. If your overall GPA drops below the minimum allowed, you will be placed on academic probation. After two semesters of probation, the Institute may drop you from its rolls at any time. If your GPA for any one term is 2.00 or lower, you may be placed on academic probation or dropped from the rolls immediately following evaluation of your case by the Graduate Committee. In addition

to meeting these minimum grade requirements, you must make satisfactory progress toward the degree in order to remain in good standing.

Graduate Student Government at Georgia Tech

The Graduate Student Government (<u>http://www.sga.gatech.edu</u>/) provides graduate students with a voice in Institute affairs and administers the Graduate Conference Fund, which provides small grants to help cover the costs of travel to scientific conferences.

Grievances and Appeals

The General Catalog of the Georgia Institute of Technology describes a regular set of procedures for addressing grievances and appeals related to academic matters and grade disputes (Rules and Regulations, Section XX). The following brief summary provides an overview of these procedures, which are described in full at <u>http://www.catalog.gatech.edu/rules/20/</u>.

- 1. The student shall attempt to resolve the grievance with the individual faculty member, the department, or the unit involved.
- 2. If the grievance is not resolved in Step 1 and the student elects to continue the grievance process, the student may request a formal hearing setting forth in writing the complaint and the remedy sought at the school, college, or unit level. Upon receipt of such appeal, the unit director will acknowledge the appeal in writing within seven calendar days and will expeditiously proceed to constitute an ad hoc appeal committee.
- 3. The grievant may appeal the decision that has been rendered by the school, college, or unit to the Student Grievance and Appeal Committee.

Health Care and Insurance

Student Health Services Center

The Georgia Tech Student Health Services Center is located at 740 Ferst Drive NW. The phone number is (404) 894-1420.

All incoming students, including graduate students, must complete and return a Medical Entrance Form prior to registration. Registration will be delayed if the form is not received by the deadline dates indicated on the form. All registered students are required to pay the student health fee of about \$1000 per year, and in return are eligible for all benefits provided by the Student Health Center on campus. The Health Center is staffed by licensed physicians, registered nurses, medical and x-ray technologists, health educators, and pharmacists. The Student Health Center physicians are experienced in all areas of primary care, emergency, internal, sports, and travel medicine. In addition to their medical staff, a women's health nurse practitioner is also available for annual gynecological exams and birth control consultations.

Services Covered by the Student Health Fee

- Blood pressure screening
- Cold self-care program
- Observation unit
- Psychiatric assessment
- Sports medicine clinic

- Unlimited MD(*doctors*)/RN(*nurses*) visits
- Wellness Center services
- Women's Clinic visits
- X-Ray and EKG services

A minimal fee may be charged for the following services:

- Allergy injections (patients provide allergy serum for injections)
- Birth control
- HIV testing/consultation
- Immunizations
- Laboratory tests
- Pap smears
- Pharmacy services
- Physical therapy
- Smoking cessation
- Travel clinic
- Specialty clinics

The Student Health Center will meet most student and spouse health care needs, but it does not cover the cost of emergency or specialized care, hospitalization, and outpatient diagnostic tests and surgery. The Student Health Center offers two voluntary accident and illness policies to help cover these unexpected and potentially expensive costs. More information can be found at http://www.health.gatech.edu/.

Honor Code / Student Conduct

All Georgia Tech graduate students are expected to abide by the honor code as written at <u>http://www.honor.gatech.edu/</u>. The Georgia Tech Office of Student Integrity webpage has details on the processes for reporting an infraction, as well as what is to be expected if you commit an infraction.

Housing

On-campus housing for graduate students is available in the Graduate Living Center or the Hemphill Avenue Apartments, and can be arranged through the Housing office.

See the Housing website for exact deadlines and to apply on-line (<u>http://www.housing.gatech.edu/</u>). The regular move-in date is typically the weekend before classes begin, but the Housing office allows students to move in approximately one week earlier (for an additional fee) to allow attendance at the various orientation programs before the start of classes.

For off-campus housing information, we suggest you talk to other graduate students in your department and check postings in areas frequented by students. Many students live in the residential neighborhood adjacent to Georgia Tech, called Home Park. There are also many apartment complexes located within a few miles of campus. University Apartment Locators is a service that provides comparisons of the cost of apartments and can help you locate an apartment.

Injuries and Accidents

As a graduate student in the School of Biological Sciences, you may or may not also be an employee of Georgia Tech. If you are paid as an RA, TA, or student assistant, you are considered a Georgia Tech employee and are covered by workers' compensation insurance.

Employees

If you suffer a job-related injury when performing work as an employee, notify your faculty advisor and our Safety Officer, Alison Onstine (404-229-3953), as soon as possible after the accident.

We are required to record every incident that happens, no matter how small it seems. If you are injured enough to lose days of work or need medical attention, you are covered by workers' compensation. Alison Onstine or the main Biological Sciences office will be able to direct you to which medical offices you can go to for assistance.

If the injury/accident is an emergency situation, **DO NOT CALL 911. Call the Georgia Tech Police at 404-894-2500**. The GT Police will get the appropriate emergency vehicles to your location more quickly than Atlanta Police.

Students

If you suffer an injury while in a research lab or classroom building as a student, the Student Health Center on campus will provide medical treatment. If the injury occurred while doing research, notify your faculty advisor and our Safety Officer, Alison Onstine (404-229-3953), as soon as possible after the accident. If the injury/accident is an emergency situation, **DO NOT CALL 911. Call the Georgia Tech Police at 404-894-2500**. The GT Police will get the appropriate emergency vehicles to your location more quickly than Atlanta Police.

International Students

The Office of International Education (OIE) is located in the Savant Building at 631 Cherry Street, Suite 211 (<u>http://www.oie.gatech.edu</u>). If you are a new international student, it is very important that you report to OIE with your passport, I-94, and I-20 or DS-2019 as soon as possible after your arrival on campus. OIE staff will tell you what you need to do during your first week at Georgia Tech.

All international students are required to attend the International Student Services Program (ISSP) Orientation. In addition, international students must be screened for tuberculosis during the GradExpo. As a special service to new international students, a representative from the Social Security Administration will be present at the GradExpo, Campus Recreation Center on Ferst Drive during the week of orientation and registration to issue Social Security numbers.

The Georgia Tech Center for Teaching and Learning (CTL) offers several courses geared specifically toward international students:

- CETL 8791: Instructional Practices for International Teaching Assistants
- CETL 8792: Classroom English and Pedagogy for International Teaching Assistants
- CETL 8793: Classroom English for International Graduate Students
- **CETL 8794**: Academic English for International Graduate Students

More information on courses can be found at https://ctl.gatech.edu/.

Lab Safety

The department of Environmental Health and Safety provides safety oversight and training for the Georgia Tech community. A copy of the Institute laboratory safety manual is available online at <u>https://www.ehs.gatech.edu/chemical/documents</u>. Alison Onstine is the School of Biological Sciences Safety Officer and can answer most questions relating to research safety. Alison can be reached at (404) 229-3953 or <u>alison.onstine@biosci.gatech.edu</u>.

Library

The Library and Information Center (404-894-4529, http://www.library.gatech.edu) is located at 704 Cherry Street near the Tech Tower. Current Georgia Tech faculty, staff, and students can use their BuzzCards to check out materials. Most books and videos can be checked out. Items that do not circulate are: journals, magazines, reference books, microforms, newspapers, some reserve books, indexes and abstracts. Materials are checked out at the Circulation Desk, located on the 1st floor east. Each item can be renewed up to 3 times over the phone, in person, or online. After the 3rd renewal, items must be brought to the Circulation Desk for additional renewals. Overdue items must be brought to the Circulation Desk for renewals. Items that are recalled may not be renewed. Current Georgia Tech students, faculty and staff may use their BuzzCard to borrow books from the Woodruff Library at Emory University and all general libraries within the University System of Georgia, which includes Georgia State University main and law libraries. To borrow books from other university libraries, or UGA and Emory specialty libraries, please contact our Circulation Department first.

A valuable resource available to all affiliates of Georgia Tech is the GALILEO database system. GALILEO stands for GeorgiA LIbrary LEarning Online, an initiative of the Board of Regents of the University System of Georgia. A World Wide Web-based virtual library, GALILEO provides access to multiple information resources, including secured access to licensed products. Participating institutions may access over 100 databases indexing thousands of periodicals and scholarly journals. Over 2000 journal titles are provided in full-text. Other resources include encyclopedias, business directories, and government publications. To access GALILEO, you must have your GT account and password.

Many journals are available electronically as e-journals through the Library website (<u>http://www.library.gatech.edu/</u>). If you have difficulty finding a journal you need, help can be sought from both virtual librarians and the Information Services desk on the first floor of the library, or by phone at (404) 894-4530.

Parking and Transportation

On-Campus Parking

If you plan to have a car on campus when you arrive at Tech, you will need to apply for a parking permit. Parking on campus is very limited; be aware that applying for a permit does not ensure that you will receive one. However, if you will need a parking permit, you should apply for one as soon as possible. You may apply online for your parking permit. The application may be found at http://www.parking.gatech.edu. You may also call Parking at (404) 894-9645, or their office is located at 828 West Peachtree Street NW.

Stinger and Trolley Services

The University runs the Stinger Bus System with several routes to various places on campus, and also provides transportation to and from the Midtown MARTA station (Metropolitan Atlanta Rapid Transit Authority) via the Tech Trolley. Consult the Stinger schedule and routes on the Parking and Transportation office's website at <u>http://www.parking.gatech.edu</u>.

The Stingerette Shuttle Service provides van transportation on campus during the evening and nighttime hours (after the buses have ceased operation for the day). During the day, the Stingerette shuttle provides transportation for handicapped persons on campus. The Tech Trolley service is a way to get to the local grocery store. For more detailed information regarding the Stingerette Shuttle Service, see the Stinger link posted above.

Also, there is an online service where you can monitor real-time movement of the Trolley and Stinger shuttles. <u>https://www.pts.gatech.edu/shuttles/stinger/</u>.

Purchasing and Receiving

For purchases, please see your faculty advisor or the lab manager.

Radiation Safety

The Office of Radiological Safety (ORS) in the Boggs Building (404-894-3605, <u>ors@ors.gatech.edu</u>) provides assistance and guidance in the safe use of radioactive materials. Anyone wishing to use radioisotopes or radiation producing equipment in research must be trained and certified by ORS. A copy of the Institute Radiation Safety Manual is available online at: <u>https://www.ehs.gatech.edu/sites/default/files/radiation_safety_policy_manual_2.pdf</u>

Questions on use and disposal of radioactive materials should be addressed to the departmental/school Safety Officer, Alison Onstine. She may be reached at 404-229-3953, or <u>alison.onstine@biosci.gatech.edu</u>.

Registration

The OSCAR (<u>https://oscar.gatech.edu/</u>) provides detailed information on registration dates and how to register via the computerized Web Access System. The Web Access System, which is used for registration, can also be used to check:

Registration status

Add or drop classes; select variable credits, grading modes, or levels; display your class schedule; obtain student invoice statement; web payment options.

Student records

View your holds; display your grades and transcripts; review summary of charges and payments by term; web payment options.

Financial aid

Apply for financial aid; review the status of your financial aid applications; check status of document requirements; review loans.

Campus services

Sign up for direct deposit, meal plans.

After registering for courses, be sure to determine your mandatory fees and pay these by the deadline (deadlines are given on the Bursar's calendar at <u>http://www.bursar.gatech.edu/</u>) at the Bursar's office on the first floor of Lyman Hall. Note: It can take up to 24 hours after registering as a full time student for other services to become available (payroll deduction, tuition waiver, etc) so register early!

Campus Resources for Students

In your time at Georgia Tech, you may find yourself in need of support. Below you will find some resources to support you both as a student and as a person.

Academic support

- Center for Academic Success <u>http://success.gatech.edu</u>
 - o Tutoring <u>https://tutoring.gatech.edu/</u>
 - Peer-Led Undergraduate Study (PLUS) <u>https://tutoring.gatech.edu/plus-sessions/</u>
 - Academic coaching <u>https://advising.gatech.edu/academic-coaching</u>
- OMED: Educational Services (<u>http://omed.gatech.edu/programs/academic-support</u>)
 - Group study sessions and tutoring programs
- Communication Center (<u>http://www.communicationcenter.gatech.edu</u>)
 - Individualized help with writing and multimedia projects
- Academic advisors for your major

http://advising.gatech.edu/

Office of Disability Services (404)894-2563 or <u>http://disabilityservices.gatech.edu/</u>) If you are a student with learning needs that require special accommodation, please consider making an appointment as soon as possible to discuss your special needs and to obtain an accommodations letter.

Personal Support

Georgia Tech Resources

- The Office of the Dean of Students: <u>https://studentlife.gatech.edu/about/dean-students;</u> **404**-**894-6367**; Smithgall Student Services Building 2nd floor
- Counseling Center: <u>http://counseling.gatech.edu</u>; **404-894-2575**; Smithgall Student Services Building 2nd floor
 - Services include short-term individual counseling, group counseling, couples counseling, testing and assessment, referral services, and crisis intervention. Their website also includes links to state and national resources.
 - Students in crisis may walk in during business hours (8am-5pm, Monday through Friday) or contact the counselor on call after hours at **404-894-2204**.
- Students' Temporary Assistance and Resources (STAR): https://star.studentlife.gatech.edu/
 - Can assist with interview clothing, food, and housing needs.
- Stamps Health Services: <u>https://health.gatech.edu</u>; **404-894-1420**
 - Primary care, pharmacy, women's health, psychiatry, immunization and allergy, health promotion, and nutrition
- OMED: Educational Services: <u>http://www.omed.gatech.edu</u>
- Women's Resource Center: <u>https://womenscenter.gatech.edu/;</u> 404-385-0230
- LGBTQIA Resource Center: <u>http://lgbtqia.gatech.edu/;</u> 404-385-2679

- Veteran's Resource Center: <u>http://veterans.gatech.edu/;</u> 404-385-2067
- Georgia Tech Police: 404-894-2500

Policies on Harassment and Workplace Environment

The School of Biological Sciences strives at having a safe, respectful, and constructive workplace for all members of its community (faculty, researchers, students, and staff) where each individual is treated with respect and compassion. The School does not tolerate harassment, discrimination, intimidation or any behavior, either spoken or unspoken, that creates a negative or hurtful environment for any student. All graduate students must read and understand the Georgia Tech policies related to sexual harassment, sexual misconduct and workplace discrimination:

Harassment: <u>https://www.policylibrary.gatech.edu/employment/equal-opportunity-nondiscrimination-and-anti-harassment-policy</u> and <u>https://eoc.gatech.edu/resources/prohibited-conduct-policies</u>

Student sexual misconduct: http://policylibrary.gatech.edu/student-life/student-sexual-misconduct

If any graduate student either witnesses or experiences any behavior from a faculty member, staff member, or another student (graduate or undergraduate) that causes them concern, please reach out to the Chair of the graduate committee, the Associate Chair for Graduate Studies, the Chair, or any other faculty member the student feels comfortable speaking to.

Lastly, please be aware that the School of Biological Sciences prohibits romantic or sexual relationships between faculty or staff members and any person under their supervision. Note that graduate TAs are considered staff members.

Travel

As a graduate student, you may travel to scientific meetings, research sites or educational destinations related to your research with the approval of your faculty advisor. Graduate students are eligible for travel funds through the GT Graduate Student Senate and the College of Sciences. The faculty member may also supply funds from a research account for travel. If you plan to travel and have your faculty advisor's approval, please carefully inform yourself about the necessary steps and requirements as soon as possible and **at least 30 days prior to travel**.

Leave of Absence

If you plan to request a leave of absence, please speak with your advisor and inform the graduate coordinator. You may request a "Leave of Absence" via the following link:

https://registrar.gatech.edu/records/leaves-of-absence

Withdrawing from School

Withdrawal from school will not be permitted after 60 percent of the term except in cases of hardship as determined by the Institute Graduate Committee, as appropriate. With the exception of part-time graduate students, students who withdraw from school and receive all grades of W will not ordinarily be permitted to re-enroll the next term. A student may withdraw from school via the Student Access System by the posted deadline in the official school calendar published in OSCAR. All holds on the student's record must be cleared prior to withdrawal.

Buildings and Facilities

Buildings and Facilities

The School of Biological Sciences is a rapidly expanding unit of the College of Sciences with more than forty faculty members. The School is headquartered in the new Engineered Biosystems Building, with additional faculty labs and facilities in the surrounding Parker H. Petit Institute for Bioengineering and Biosciences, Ford Environmental Science and Technology Building, Boggs Building, and the Cherry Emerson Building. Together, this complex forms the center of bioscience research at Georgia Tech and houses interdisciplinary research teams of biologists, chemists, earth scientists, bioengineers, and environmental engineers. Faculty labs for the Integrated Physiology programs are located just outside of main campus at 555 14th street.

In addition to classrooms and teaching laboratories, research laboratories are available within these buildings for molecular biology, microbiology, bioinformatics, and ecology research. Specialized facilities include Mass Spectrometry for proteomics and lipidomics, confocal microscopy; the Ovarian Cancer Institute; and the Bio-Omics facility.

Off campus, coastal facilities are available to conduct research and field studies at Georgia Tech's Priest Landing Marine Facility, the Skidaway Institute of Oceanography and UGA Marine Institute - Sapelo Island near Savannah, Georgia. These facilities provide unique opportunities to conduct research in the ecology of coastal marine ecosystems.

Directory

University Offices

Office	Address	Phone	Website
Bursar's office	1 st floor of Lyman Hall	404-894-4618	www.bursar.gatech.edu
Graduate Studies and Research office	Room 310, Savant Building	404-894-4843	www.gradadmiss.gatech.ed u
Office of Human Resources	500 Marietta St., NW	404-894-9294	www.ohr.gatech.edu
Office of Information Technology	2nf Floor Clough Commons	404-894-7173	www.oit.gatech.edu
Office of International Education	Room 211, Savant Building	404-894-7475	www.oie.gatech.edu
Library	Library and Information Center	404-894-4530	www.library.gatech.edu
Police	Corner of Ferst Drive and Hemphill Ave.	404-894-2500	www.police.gatech.edu
Registrar	1 st floor of Administrative Bldg.	404-894-4150	www.registrar.gatech.edu