

2023-2024



**The University of Alabama
Department of
Biological Sciences
Graduate Student
Handbook**

Biological Sciences Graduate Student Handbook

Message from the Chair:

Welcome! We are pleased that you are a part of our department. We hope that your years here will be both productive and exciting. Our goal is to help you gain the skills and knowledge that you will need to be competitive for the next step in your chosen career path. And, if you are uncertain what that career path should be, we will introduce you to the many exciting career opportunities in our rapidly advancing discipline.

The Biological Sciences faculty here at the University of Alabama have a wide range of research interests and expertise, including cell and molecular biology, computational biology, conservation biology, ecology, evolution, genetics, marine science, neurobiology, physiology, systematics, and more! While we want you to have a strong research focus, I cannot emphasize enough the importance of acquiring breadth as well as depth in your education here. Advances in technology and in biological knowledge are breaking down the barriers between the many biology disciplines. To be successful, you (and we) will necessarily become increasingly interdisciplinary in our research expertise. Just as research and career options 10-15 years in the past are quite different in many ways from Biology today, I suspect that Biology 10-15 years in the future will have technological capabilities that allow biologists to answer questions we cannot even imagine today. So, we encourage you to get to know the faculty and graduate students throughout the Department. We also encourage you to be engaged and active in your Graduate Student Association. Ultimately, your education and research training are in your own hands, and you will learn, if you do not know already, that the scientific enterprise is a communal affair. Your interactions with other scientists, as much as your hard work and intelligence, are essential for your success now, and in the future.

So, whether your future lies in teaching, applied or basic research, or any of the many other career options, you officially set out on that path with your entry into our graduate program, and we are excited to have the privilege of helping you navigate!

John Friel, Ph.D.
Interim Department Chair
August 2023

THE CAPSTONE CREED OF THE UNIVERSITY OF ALABAMA

"AS A MEMBER OF THE UNIVERSITY OF ALABAMA COMMUNITY, I WILL PURSUE KNOWLEDGE; ACT WITH FAIRNESS, HONESTY, AND RESPECT; FOSTER INDIVIDUAL AND CIVIC RESPONSIBILITY; AND STRIVE FOR EXCELLENCE."

GRADUATE STUDENT RESPONSIBILITIES

As a graduate student in the Department of Biological Sciences, each student is responsible for his or her overall program of study and progress toward degree. This includes adherence to all deadlines, milestones and curriculum requirements. Their primary advisor and committee members will advise students throughout their graduate tenure. However, it is incumbent on each student to be familiar with all requirements and take the primary responsibility of meeting these milestones. Failure to do so will result in disciplinary actions as defined in the sections below.

**All appropriate graduate forms must be submitted through the Graduate Program Office in SEC 1325. Scanned copies of each form submitted to the Graduate Program Office will be placed in each graduate student's UA-Box folder. Students should confirm that these copies have been uploaded to their UA-Box folder.*

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Graduate Handbook Waiver

As a graduate student in the Department of Biological Sciences, I affirm that I have read in its entirety and understand the requirements detailed in this Graduate Student Handbook. I further acknowledge that I am the principal party responsible for monitoring and adhering to the deadlines and requirements set forth within the handbook.

Name (printed): _____ CWID: _____

Signature: _____ Date: _____

This document must be submitted to the graduate office within the second week of starting the graduate program.

All students should maintain a copy for their records and check their UA Box folder for an additional copy of this document.

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The Graduate Program

The primary aim of our graduate program in the Department of Biological Sciences 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 needed to address such problems. We also want to instill in you a motivation to continued learning, which we hope will permit you to define and solve new kinds of research problems during your professional career. Upon graduating, you will move on to positions in academia, industry, and government. We welcome your input on our graduate program. Your suggestions will assist us in further developing our program to remain at the cutting edge of science.

Department of Biological Sciences Graduate Committee

The Department of Biological Sciences (BSC) Graduate Committee consists of faculty members representing diverse research areas in the department. The Chair of the BSC Department also takes part in this committee as an *ex officio* member. This committee has specific responsibilities for establishing and administering graduate degree requirements, recommending admission of students into the program, and facilitating and implementing new policies in conjunction with the Chair of the Department.

The Graduate Committee also coordinates graduate recruiting efforts and serves as a resource and liaison for graduate students in the department. BSC graduate students with concerns regarding any issues related to curriculum, assistantships or progress toward degree should direct those concerns directly to this committee.

Graduate School

The general rules and regulations governing all UA graduate students are found at the Graduate School web page, <https://catalog.ua.edu/graduate>. The Department of Biological Sciences has additional requirements for all biological science graduate students. Any instance where the Graduate School website and the Biological Sciences Graduate Student Handbook differ the Biological Sciences Graduate Student Handbook will overrule the Graduate School website.

Courses Offered

Catalog descriptions of all courses offered may be found online at: <https://catalog.ua.edu/graduate>. In general, courses numbered 400-499 are primarily for advanced undergraduate students, while courses numbered 5xx or 6xx are intended for graduate students. Coursework below the 400 level will not be accepted for graduate credit.

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For MS students: A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree only if all the following apply:

1. The 400-level courses taken are outside the Biological Sciences Department.
2. The department offering the 400-level course offers a graduate degree.
3. The 400-level course must carry appropriate extra work to be counted for graduate credit. Appropriate documentation from the course instructor must be provided to and approved by the student's committee.
4. The necessary Graduate credit transfer request form must be approved by the department and Graduate School prior to the semester in which the 400-level coursework will be taken. Students need to contact the graduate program office in Biology (1325 SEC) to initiate the submission of this form through DocuSign.

For Ph.D. students: No 400-level courses may be accepted for a Ph.D. degree.

General Policies and Requirements

The BSC Department is constantly evolving and the graduate program must occasionally change to meet any needs that may arise. As a result, policies in this handbook may change during your graduate studies. BSC graduate students will always have the option of graduating under the course requirements in effect when entering the program. However, all other changes to the policies outlined in the handbook (e.g., deadlines, disciplinary actions, methods of progress review, administration of qualifying exams/defense, etc. ...) will pertain to all current graduate students.

Departmental Seminar (Graduate Research Seminar)

Regular departmental seminars are an important part of graduate education and all graduate students are required to register for and attend the weekly departmental seminar, enrolling in BSC 601 (Biological Sciences Seminar) each semester they are in residence at the Tuscaloosa campus. The purpose of the weekly graduate student seminar is to ensure that all graduate students are familiar with the breadth of current biological research. Students receive pass/fail for each semester. Additionally, PhD students are expected to present their research during their last two semesters of study, either at the departmental seminar or at the annual department research symposium. This will be arranged in consultation with their faculty advisor and the BSC 601 course instructor.

It is incumbent on students to initiate this process and schedule a presentation date with the seminar committee the semester prior to their graduation.

Grades and Credit Hours

Each graduate student must maintain a minimum grade point average (GPA) of 3.0 to remain in good academic standing. All graduate students must maintain a minimum of 6 credit hours during fall and spring semesters to maintain full time status - excluding credit hours awarded for service as a Graduate Teaching Assistant (GTA). Students may register for a maximum of 15 semester hours, inclusive of credit hours awarded for service as a GTA. Graduate Students must be full time students to receive GTAs and Graduate Research Assistantships (GRAs).

Transfer of Credit from Other Institutions

M.S. students can request the transfer of up to 12 credit hours of graduate courses taken at other institutions. Ph.D. students can request the transfer of up to 18 credit hours of graduate courses taken at other institutions (see the **Graduate School Catalog** for current policies: <https://catalog.ua.edu/graduate>).

Overview of the Handbook

The handbook is divided into multiple sections. Please read the section appropriate to your degree of study [M.S. (Plan I or Plan II), M.A., or Ph.D.]. The specific sections contain step-by-step descriptions of the milestones that must be completed to obtain the degree. A timeline is included showing when each milestone should be completed. **It is each graduate student's responsibility to be aware of these milestones and their associated deadlines and make all preparations to complete these critical steps toward degree completion.** Contact the Biology department program office assistants to initiate forms through DocuSign. The final 3 sections provide general information on financial aid and guidance for students on choosing a research mentor or seeking to change between research laboratories or degrees.

This Graduate Student Handbook is an essential supplement to the University of Alabama Graduate Catalog and intended primarily to detail requirements specific to the Biological Sciences Graduate Program. As such, students should also refer to the Graduate Catalog for information regarding all general requirements of the Graduate School (see <http://catalog.ua.edu/catalog>).

EXPECTATIONS FOR GRADUATE STUDENT TRAINING

The following expectations are given to ensure that students understand the importance of various activities that span research, teaching, and service - the hallmarks of academia.

- All students are encouraged to become active members of the Department of Biological Sciences by participating in its various academic and social activities. In addition to the required seminar attendance (BSC 601) students should also attend other departmental seminars (e.g., faculty job seminars and visiting scholars). Such seminars and research talks provide in-depth knowledge of the biological sciences and provide opportunities to network with invited seminar speakers (i.e., potential employers), fellow graduate students, and departmental faculty.
- All students are encouraged to attend and present their research at regional, national and/or international meetings in their field of expertise. These activities provide additional and important opportunities to network with prospective employers as well as gain experience in showcasing research projects to experts in the field. These meetings are also an opportunity to establish collaborations with colleagues. To help fund travel to such conferences graduate students are encouraged to complete applications to the Graduate School's Research and Travel Support Fund for Graduate Students (<https://graduate.ua.edu/students/financial-support/>). Reminders will be sent out during the academic year for application requests.
- All students should endeavor to submit at least one peer-reviewed paper from their graduate studies at UA to a research journal. M.S. advisors may make this a mandatory requirement. Prior to the dissertation defense, all students in the Ph.D. program *must* submit for publication to a peer-reviewed journal at least one first-author manuscript containing data produced by the student during enrollment in the Ph.D. program. Students are required to submit proof of submission or publication to the department at the time their dissertation is submitted for public review.
- Students are encouraged to actively seek funding (external to the Department of Biological Sciences) for their research by submitting grant and fellowship applications.
- Students are expected to carry out their assigned teaching and research duties by completing all required activities including, but not limited to, attending laboratory preparation meetings, completing grading assignments in an accurate and timely manner, completing proctoring assignments, attending research laboratory meetings and completing research assignments in an accurate and timely manner.
- Students should engage in service activities (meeting prospective graduate students, faculty interviews, guest speaker lunches, educational outreach, etc.).

MAINTAINING GOOD STANDING

Scholastic requirements

Graduate students are required to meet high standards of scholastic performance. Per requirements set out by the University of Alabama Graduate School (<https://catalog.ua.edu>), a minimum of 75% of all graduate course work must be passed with a grade of "B" or better. A student whose graduate GPA falls below 3.0 shall be placed on Academic Warning. While on warning, the student is not eligible to apply for candidacy for a degree or hold a Graduate Assistantship. Any student on Academic Warning must restore an overall 3.0 GPA upon completion of the next 12 hours of graduate courses following the semester in which the GPA drops below 3.0. Failure to do so will result in Academic Suspension (dismissal) from the Graduate School.

Conditionally admitted students who fail to establish a 3.0 GPA in their first attempted 12 hours of graduate course work will receive Academic Suspension (dismissal) from the Graduate School. If the 12 hours are completed in a term in which the total credits exceed 12, the evaluation is made based on all graduate-level work completed at the end of that term of enrollment.

The maintenance of good academic standing with the Department also requires that graduate students conduct themselves responsibly and respectfully towards all members of our academic community. The University has a vital interest in the character of its students, and therefore regards behavior at any location (on-campus or off-campus) as a reflection of a student's character and fitness to be a member of the student body. Students are expected to demonstrate honesty and integrity with faculty, staff and other students, and are expected to meet the standards of the University of Alabama code of conduct throughout all online or in-person interactions related to university business. Accordingly, in addition to the relevant academic thresholds, a student's standing with the Department is contingent on compliance with the Code of Student Conduct and adherence to the Capstone Creed. Students who fail to meet these standards of behavior will be immediately dismissed from the program.

"I" (incomplete) or "N" (no grade submitted) grades

"I" and "N" grades are calculated in the student's overall GPA as an "F." They must be removed within four weeks *during the next term of enrollment* if the student's overall GPA drops below a 3.0 as a result of the "I" or "N" grade(s). Conditionally admitted students in their first year who fail to bring their overall GPA back up to a 3.0 or better by removing the "I" or "N" within the four weeks will earn Academic Suspension (dismissal) from the Graduate School. Graduate students with good academic standing who fail to bring their overall GPA back up to 3.0 or better by removing the "I" or "N" grade(s) within the four weeks will earn Academic Warning.

Academic Warning must be removed by raising the overall GPA to 3.0 or better during the 12 hours of graduate work *immediately following the period in which the warning was earned*. Failure to do so will result in Academic Suspension (dismissal) from the Graduate School (<https://catalog.ua.edu>).

Graduate School Workshop, Legal Training and Orientation

The first activity for all new GTAs is the Graduate School's Workshop for New Graduate Teaching Assistants. New students will be contacted by the Graduate School to schedule participation. All students supported by GTAs are expected to perform diverse professional duties. Examples include but are not limited to attending laboratory prep meetings, meeting all proctoring assignments, and grading exams in a timely manner. To ensure that all graduate students begin this phase of their career with appropriate instruction in research methodologies, practices and ethics, first-year students are required to enroll in the Intro to Grad Studies course (BSC 505), with the exception of PhD students who hold a master's degree and have the permission of their advisor.

Additionally, the College of Arts and Sciences requires that all GTAs and GRA's receive legal training every other year. At the beginning of each Fall semester, legal training sessions will be conducted by the College. Announcements and invitations to participate will be e-mailed at this time.

In addition to departmental orientation that takes place at the beginning of each Fall semester for new graduate students, the University of Alabama Graduate School conducts an annual Graduate Orientation and Welcome (GROW) program the first week of school in both August and January. This orientation process familiarizes students with resources beyond the department and is strongly recommended for all incoming graduate students. Each semester an e-mail invitation will be sent to all new students and more information concerning the scope of GROW can be found here: <https://graduate.ua.edu/about/our-students/grow>.

Seminar courses

All graduate students are required to register for BSC 601 Biological Sciences Seminar every semester during their enrollment in the program when in residence at the Tuscaloosa campus. In addition, students also have the option to attend and participate in literature-based seminar courses (examples are BSC 603 [Current Topics in Molecular Biology], BSC 584 [Aquatic Biology Seminar]). Formal registration for these courses is not mandatory for participation. However, with approval of his/her graduate committee, a student may register for credit in these courses and apply up to but no more than a total of four credits hours towards the letter grade-based coursework required for the completion of an M.S. or Ph.D. degree.

Withdrawal

The University's withdrawal policies can be found on the Student Account Services website (<https://studentaccounts.ua.edu/withdrawal-from-the-university/>). For a medical withdrawal, the student must contact University Health Service (<https://shc.ua.edu>). A medical withdrawal cannot be granted if the graduate student has taken any final examinations or equivalents (final papers, final projects, or similar assignments) for the semester for which a withdrawal is being requested. The procedures for a medical

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withdrawal are available by contacting University Health Service (348-6262) and here: <https://shc.ua.edu/medical-withdrawal/>.

Research progress

Students are required to make consistent progress toward research goals as defined by their research proposal and their Graduate Advisory Committee. As detailed in this handbook, yearly progress reviews, committee evaluations and completion of required milestone achievements by prescribed deadlines serve as indicators of progress.

DESCRIPTION OF GRADUATE PROGRAMS

There are four graduate degree programs in the Department of Biological Sciences:

- Master's degree in Biological Sciences (M.S.)
- Master's degree in Marine Science (M.S.)
- Master of Arts in Biological Sciences (M.A.)
- Doctor of Philosophy degree in Biological Sciences (Ph.D.)

Each of the M.S. degrees can be accomplished either by enrolling in Plan I (with thesis) or in Plan II (without thesis).

Master's degrees can also be accomplished by enrolling in either Plan I or Plan II through the Accelerated Master's Program (AMP). The AMP is a closely integrated undergraduate and graduate program in which qualified undergraduate students begin graduate study in their senior year; such a program may lead to simultaneous or sequential completion of requirements for both master's and bachelor's degrees. The Program is for highly motivated candidates for the B.S. Degree in Biology, Microbiology, or Marine Science. More information regarding the AMP can be found in the Graduate Catalog (<https://catalog.ua.edu/graduate/about/academic-policies/admission-criteria/>).

DEGREE REQUIREMENTS

A. Master's Degree, Plan I (with thesis)

1. Course Requirements: A minimum of 30 credit hours of graduate coursework is required including:

Coursework and Requirements	Credit Hours
BSC 599 (Thesis Research)	6
24 credit hours <u>other than BSC 599</u> , including: <ul style="list-style-type: none"> • At least 19 credit hours with a letter grade (i.e., not Pass/Fail) • A maximum of 6 credit hours with a letter grade may be taken from BSC 507 (Research Techniques in Biology) and/or BSC 607 (Advanced Research Techniques in Biology) <u>combined</u> • BSC 505 (Introduction to Graduate Studies in Biological Sciences) <p>NOTE: Up to 5 hours of Pass/Fail credit can be applied toward fulfillment of degree requirements. Pass/Fail hours can include up to a total of 4 credit hours of BSC 601 (Biological Sciences Seminar).</p> <p>Of the 30 required credit hours, 18 must carry the BSC or MS designation.</p>	24

All courses taken for MS graduate credit hours must be numbered 400 and above, and no more than six credit hours can be at the 400 level. A maximum of 6 hours of 400-level course credit may be accepted for a master's degree only if all the following apply:

1. The 400-level courses taken are outside the Biological Sciences Department.
2. The department offering the 400-level course offers a graduate degree.
3. The 400-level course must carry appropriate extra work to be counted for graduate credit.
4. The student must have the consent of his/her major advisor.
5. The necessary Graduate School form must be approved by the department and Graduate School prior to the semester in which the 400-level coursework will be taken. (Contact the graduate program office assistants in biology to initiate the submission of this form through DocuSign).

There are no preconditions to enrolling in BSC 599, and there are no limits to the number of hours of BSC 599 taken. However, only 6 hours can be applied toward this degree. BSC 598 (Non-Thesis Research) may not be applied toward this degree.

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Transfer credits: Up to 12 credit hours of graduate courses taken at other institutions and meeting Graduate School requirements may be transferred. Transfer credits are considered Pass/Fail for calculation of GPA, but are included in the 19 required credit hours with a letter grade, provided they are from graded courses.

A Plan I M.S. coursework checklist to assist in tracking progress toward meeting course requirements is available on the Department of Biological Sciences website (<http://bsc.ua.edu/forms>).

Marine Science: The guidelines cited above regarding credit-hour requirements are applicable.

2. Residency Requirements: A student's program at the M.S. level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements. The student's Advisory Committee, with the approval of the Department Chair, will determine residency requirements.

3. M.S. Plan I Advisory Committee: A student must form a M.S. Advisory Committee prior to their first annual review meeting. The first committee meeting is to be held after completion of the first semester of studies (by January 31st for students entering in the fall semester and by June 30th for students entering in the spring semester) to evaluate progress toward a degree. In subsequent years of study, the committee will meet prior to December 15th to review progress during the previous academic year. It will also meet as needed to administer all final examinations, and to examine and approve the thesis.

The M.S. Advisory Committee must consist of at least three members. All members of a M.S. Advisory Committee must be members of the Graduate Faculty and exactly one must be from outside the student's major department and may be from another institution. The Department Chair is a non-voting, *ex officio* member of all graduate student committees.

Complete the M.S. committee form by going to graduate.ua.edu. Select the "Current Students" tab at the top of the page. Scroll down to the "Student Portal" block. This will take you to the login to submit the thesis form.

Nominations of outside members from other institutions require the nominee's CV, a letter of support explaining the need for affiliate graduate faculty status submitted by the student's major professor and a formal request for the affiliate graduate faculty appointment from the Department Chair. Nominations should be submitted to the Graduate Program Office who will direct the form to the Department Chair, who will then relay the formal request to the Graduate School.

Marine Science: The guidelines cited above for M.S. Advisory Committees are applicable. In addition, at least one member of the student's M.S. Advisory Committee must be a qualified member of the Biological Sciences faculty resident on the UA

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Tuscaloosa campus. If a student admitted as either a master's degree in biology or PhD in Biology wishes to change to a master's in marine science program during their graduate career, the student will need to re-apply through the Graduate School specifically to the Master's in Marine Science program. The master's degree in marine science is considered to be an interdisciplinary degree and therefore is not housed solely within the Department of Biological Sciences, which is why a separate application is required. Only an application and a statement outlining the rationale for changing the degree being sought are necessary; all supporting documents (e.g., letters of recommendation, transcripts) should be in place from the original application.

4. Degree Timeline:

Students must meet the following milestones by the dates indicated in order to maintain the highest priority for financial assistance and achieve an acceptable evaluation score at annual performance reviews.

- | | |
|---|--|
| 1. Choose M.S. Advisor | Complete prior to first semester review |
| 2. Choose M.S. Advisory Committee | Complete prior to first semester review |
| 3. First semester review | After completing the first semester of studies (Jan. 31 for students entering in fall, June 30 for students entering in spring) |
| 4. M.S. research proposal | Complete by end of second semester |
| 5. First annual review | Prior to Dec. 15 of 2 nd academic year, and subsequent year[s] of study |
| 6. Coursework | Complete by end of fourth semester |
| 7. Apply for graduation | No later than the first week of classes of the intended semester of graduation |
| 8. Submit Thesis to Committee | At least 2 weeks prior to Oral Defense |
| 9. Formal Departmental Seminar and Final Oral Defense | Complete by end of the second year |
| 10. Submit Thesis (final form) to the Graduate School | At least 6 weeks prior to graduation- Graduate School deadlines are listed on the Graduate School website (graduate.ua.edu/current-students/student-deadlines) |
| 11. Submit Committee Acceptance Form for Electronic Thesis or Dissertation and Publication Form for Electronic Thesis or Dissertation | See Graduate School Deadlines for last day to submit |

In accordance with Graduate School policy, all requirements for the M.S. degree must be completed during the six calendar years immediately preceding the date on which the degree is to be awarded. The Department expectation is that M.S. students complete their degree in accordance with the Plan I M.S. timeline as outlined in this section. A Plan I M.S. timeline checklist is available on the Department of Biological Sciences website (<http://bsc.ua.edu/forms>). Each student's checklist will be updated at

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each annual progress review and appended to the report submitted by the advisor to the Department Chair.

5. Annual Progress Review: First year students must meet with their committee after completing the first semester of studies (by January 31st for students entering in the fall semester and by June 30th for students entering in the spring semester) Subsequently, each graduate student will meet annually prior to December 15th with her/his M.S. Advisory Committee for the purpose of reviewing the student's progress toward a degree during the previous academic year.

Application for review: Upon completion of each annual review, each graduate student must initiate the committee review process by completing the application for committee review through the following link: <https://biograd.as.ua.edu>. When prompted, enter your CWID then complete all requested information, including selection of all departmental committee members.

These evaluations are a part of the data used to establish priorities for assistantships. The student is expected to make a formal presentation to the committee during the annual meeting. This presentation shall include a description of progress made with respect to research and completion of other degree requirements. When the presentation has been completed, the student will be asked to leave the room and the committee shall then evaluate the student's progress. This evaluation will result in a "Pass", "Probationary pass", or "Fail". Guidelines for these rankings are given below:

- **Pass:** The graduate student is making satisfactory research progress commensurate with their time in the program, has maintained at least a 3.0 cumulative GPA, and has met other requirements of the program (e.g., formed a committee, presented a research proposal, etc.) in a timely manner.
- **Probationary Pass:** The graduate student has fallen behind schedule with respect to such requirements as formation of a committee, literature search and submission of a research proposal, scheduling and taking required examinations (for PhD students only), writing of the thesis or dissertation etc. (see degree timeline), or little or no research progress has been made since the last annual review. It may apply to a student receiving a grade lower than a B in a course during the previous year even though the (overall cumulative) GPA is 3.0 or higher. Committees awarding a Probationary Pass for students who have fallen behind schedule must provide a written rationale to the Graduate Committee and the Department Chair in the annual committee report, including clearly defined milestones or benchmarks the student must reach in order to bring their performance up to standard. The student must submit a remediation plan to their committee members addressing the concerns of the committee, including procedures for how milestones and benchmarks will be met, as well as a timeline, within two weeks of notification of their Probationary Pass. This plan must be signed by the major advisor and two other members of the student's

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advisory committee and presented for approval to the Graduate Program Director. Once approved, the remediation plan document will be placed in the student's file, and a copy given to the student. Furthermore, the graduate student must have a follow-up committee meeting within six months of the annual review to evaluate their progress on the remediation plan. At the conclusion of the six-month follow-up meeting, the student will be awarded either a Pass or a Fail.

- **Fail:** The graduate student's progress is unacceptable for reasons such as a cumulative GPA of less than 3.0 in all (both graduate and undergraduate) courses attempted, insufficient research progress, or not completing the degree within time limits without an acceptable/approved reason.

Graduate students receiving a ranking of Fail for any annual review, or two rankings of Conditional Pass for any two annual reviews, will be dismissed from the Biological Sciences Graduate Program.

Appeal of a dismissal decision. If a decision was made to dismiss the student from the program, the student may make a formal appeal. This should be done according to the University of Alabama's University-wide Academic Grievance Procedures, described in the faculty handbook and available online at facultyhandbook.ua.edu/.

GRADUATE STUDENTS RECEIVING A RANKING OF "Fail" FOR ANY ANNUAL REVIEW, OR TWO RANKINGS OF "Probationary Pass" FOR ANY TWO ANNUAL REVIEWS, WILL BE DISMISSED FROM THE BIOLOGICAL SCIENCES GRADUATE PROGRAM.

The major professor shall inform the student in writing of the committee's evaluation within 2 weeks of the meeting. A copy of this report shall be sent to the Department Chair, Graduate Directors and the student's committee members via biograd.as.ua.edu. *Since the committee evaluations are taken into consideration when assigning teaching assistantships and awarding research/travel funds, it is imperative that they be completed and submitted by January 10th of each year (March 1 or August 1 for first year students beginning in the fall or spring semesters respectively)*

If the student is progressing satisfactorily toward a degree, no further action is necessary. If the committee determines the student is not making satisfactory progress and awards a score "Pass", the student shall be informed in the committee evaluation of specific deficiencies and of the committee's recommendation(s) for correcting them.

It is the **primary** responsibility of the student to see that these deadlines are met. Failure to complete evaluations by this date will result in the student not being considered for graduate teaching assistantships.

6. M.S. Research Proposal: A formal research proposal is required and should be completed by the end of the student's second semester in the program. This proposal should include:

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1. A full but concise statement of the specific goals of the research.
2. A review of the relevant literature to place the proposed work in a solid theoretical context.
3. A discussion of the significance of the proposed research and how it addresses a novel question.
4. A description of the experimental design, including experimental methods, procedures, and methods used in analysis and interpretation of results.
5. Literature citations.

The M.S. Advisory Committee can establish additional requirements such as page length and format. The proposal should be submitted to and approved by the student's M.S. Advisory Committee no later than the end of the student's second semester enrolled in the Graduate Program. A new proposal will be required if the thesis research changes significantly.

7. Research Expectations: A formal thesis, prepared in accordance with university regulations, is required. The thesis shall be based upon research approved by the student's M.S. Advisory Committee and conducted under the supervision of the major professor. See <https://services.graduate.ua.edu/etd/> for formatting and submission guidelines.

8. Formal Departmental Seminar and Final Oral Defense: the public presentation of your research is a requirement for graduation. Master's students must present their research at the Departmental Symposium in the first or second semester prior to graduation. (Ph.D. candidates must present their research at a weekly Departmental seminar.) Those students with a documented reason for not presenting should petition the Biological Sciences Graduate Committee for an exception to this rule.

9. Final Oral Defense: In addition to participation in the departmental research symposiums (M.S./seminar, Ph.D.), a publicly announced final formal departmental seminar concerning the student's research is required. The seminar is scheduled immediately preceding the final oral examination.

All students must pass a final oral examination (defense) related to their thesis. Final oral examination questions may also include other subjects beyond the student's research that the M.S. Advisory Committee or other faculty consider relevant. Final oral examinations for the M.S. Plan I must be taken **not less than six weeks prior** to the proposed graduation date (Note: This deadline does not include time required for revision of the thesis after the defense). The student's entire Ph.D. dissertation committee must attend and participate in the final defense. Committee members may participate virtually in the case of illness or required travel, if the member(s) can see and hear the presentation and actively participate in questioning of the candidate. The student's advisor must adhere to the technical requirements put forth by the Graduate School. Under exceptional circumstances, the student may be allowed to participate virtually. The student must obtain the approval of their committee chair and petition the BSC Graduate Program Director. In addition, a copy of the final draft of your thesis

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must be made available to BSC faculty wishing to review it. The thesis copy will be posted in a password-protected Box folder during the 2-week period preceding the defense.

All departmental faculty members have the right to attend the final oral defense and have the right to ask questions of the student that are relevant to the goals of the examination. Only faculty on the student's committee may vote on whether the student has passed or failed the examination.

Each candidate for a master's degree must apply for graduation through the Office of the Graduate School no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed. The Application for Degree can be accessed via your myBama portal.

All students must pass a final oral examination (defense) related to their thesis. Final oral examination questions may also include other subjects beyond the student's research that the M.S. Advisory Committee or other faculty consider relevant. Final oral examinations for the M.S. Plan I must be taken **not less than six weeks prior** to the proposed graduation date (Note: This deadline does not include time required for revision of the thesis after the defense). All members of the student's committee must attend and participate in the final defense. Committee members may participate virtually in the case of illness or required travel, if the member(s) can see and hear the presentation and actively participate in questioning of the candidate. The student's advisor must adhere to the technical requirements put forth by the Graduate School. Under exceptional circumstances, the student may be allowed to participate virtually. The student must obtain the approval of their committee chair and petition the BSC Graduate Program Director.

All departmental faculty members have the right to attend the final oral defense and have the right to ask questions of the student that are relevant to the goals of the examination. Only faculty on the student's committee may vote on whether the student has passed or failed the examination.

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B. M.S. Degree, Plan II (without thesis)

1. Course Requirements:

A minimum of 30 credit hours of graduate coursework is required including:

Coursework and Requirements	Credit Hours
<ul style="list-style-type: none">• At least 25 credit hours with a letter grade (i.e., not Pass/Fail)• A maximum of 6 credit hours with a letter grade may be taken from BSC 507 (Research Techniques in Biology) and/or BSC 607 (Advanced Research Techniques in Biology) <u>combined</u> and students must select either option A, B or C as their culminating “Capstone” experience (see section 6).• BSC 505 (Introduction to Graduate Studies in Biological Sciences)• NOTE: Up to 5 hours of Pass/Fail credit can be applied toward fulfillment of degree requirements. Pass/Fail credit hours can include up to a total of 5 credit hours of BSC 598 and/or 4 credit hours of BSC 601• Of the 30 required credit hours, 18 must carry the BSC or MS designation.	30

All courses taken for MS graduate credit hours must be numbered 400 and above. All maximum of 6 semester hours of 400-level courses may be accepted for a master’s degree only if all the following apply:

1. The 400-level courses taken are outside the Biological Sciences Department.
2. The department offering the 400-level course offers a graduate degree.
3. The 400-level course must carry appropriate extra work to be counted for graduate credit.
4. The student must have the consent of their major advisor.
5. The necessary Graduate School form must be approved by the department and Graduate School prior to the semester in which the 400-level coursework will be taken. (<https://graduate.ua.edu/student/forms>).

Candidates for the M.S. degree under Plan II must complete a culminating or “Capstone” experience.

BSC 599 **may not** be applied toward this degree.

Transfer credits: Up to 12 credit hours of graduate courses taken at other institutions and meeting Graduate School requirements may be transferred. Transfer credits are considered Pass/Fail for calculation of GPA, but are included in the 25 required graded course hours, provided they are from graded courses.

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A Plan II master's degree Course Checklist to assist in tracking progress toward meeting course requirements is available on the Department of Biological Sciences website (<https://bsc.ua.edu/forms-for-graduate-students>).

Marine Science: The guidelines cited above regarding credit-hour requirements are applicable.

2. Residency Requirements: A student's program at the M.S. level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements. The student's Advisory Committee, with the approval of the Department Chair, will determine residency requirements.

3. M.S. Plan II Advisory Committee: A student must form a M.S. Advisory Committee prior to their first annual review meeting. The first committee meeting is to be held after completion of the first semester of studies (by January 31st for students entering in the fall semester and by June 30th for students entering in the spring semester) to evaluate progress toward a degree. In subsequent years of study, the committee will meet prior to December 15th to review progress during the previous academic year. It will also meet as needed to administer all final examinations, and to examine and approve the culmination Capstone Experience.

The M.S. Advisory Committee must consist of at least three members. All members of an M.S. Advisory Committee must be members of the Graduate Faculty. For Plan II M.S. degree-seeking students, all committee members may be graduate faculty in the Department of Biological Sciences. No more than one committee member can be from outside of the department and University. The Department Chair is a non-voting, *ex officio* member of all graduate student committees.

The student may go to the BSC website: "APPOINTMENT OF PLAN II COMMITTEE FORM" (see <https://bsc.ua.edu/forms-for-graduate-students/>). Nominations of outside members from other institutions require the nominee's CV, a letter of support explaining the need for affiliate graduate faculty status submitted by the student's major professor and a formal request for the affiliate graduate faculty appointment from the Department Chair. Nominations should be submitted to the Graduate Program Office who will direct the form to the Department Chair, who will then relay the formal request to the Graduate School.

Marine Science: The guidelines cited above for a M.S. Advisory Committee are applicable. In addition, at least one member of the student's M.S. Advisory Committee must be a qualified member of the Biological Sciences faculty at the Tuscaloosa campus.

4. Degree Timeline: Students must meet the following milestones by the times indicated in order to maintain the highest priority for financial assistance and achieve an acceptable evaluation score at annual performance reviews.

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1. Choose M.S. Advisor	Complete prior to first semester review
2. Choose M.S. Advisory Committee	Complete prior to first semester review
3. First semester review	After completing the first semester of studies (Jan. 31 for students entering in fall, June 30 for students entering in spring)
4. Capstone Experience proposal	Complete by end of second semester
5. First annual review	Prior to Dec. 15 of 2 nd academic year, and subsequent year[s] of study
6. Coursework	Complete by end of fourth semester
7. Apply for graduation	No later than the first week of classes of the intended semester of graduation
8. Submit Capstone Experience Report to Committee	At least 2 weeks prior to final Oral Examination
9. Formal Departmental Seminar and Oral Examination	Complete by end of the second year
10. Submit Completion of Requirements for the Plan II Degree Documentation Form	After successful completion of final Oral Examination (but no later than 3 weeks prior to Commencement) - see Graduate School deadlines on the Graduate School website (https://graduate.ua.edu/current-students/student-deadlines)

According to Graduate School policy, all requirements for the M.S. degree must be completed during the six calendar years immediately preceding the date on which the degree is to be awarded.

5. Annual Progress Review: First year students must meet with their committee after completing the first semester of studies (by January 31st for students entering in the fall semester and by June 30th for students entering in the spring semester). Subsequently, each graduate student will meet annually prior to December 15th with her/his M.S. Advisory Committee for the purpose of reviewing the student's progress toward a degree during the previous academic year.

Application for review: Upon completion of each annual review, each graduate student must initiate the committee review process by completing the application for committee review through the following link: <https://biograd.as.ua.edu>. When prompted enter your CWID then complete all requested information, including selection of all departmental committee members.

These evaluations are a part of the data used to establish priorities for assistantships. The student is expected to make a formal presentation to the committee during the

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annual meeting. This presentation shall include a description of progress made with respect to research and completion of other degree requirements. When the presentation has been completed, the student will be asked to leave the room and the committee shall then evaluate the student's progress. This evaluation will result in a "Pass", "Probationary pass", or "Fail". Guidelines for these rankings are given below:

- **Pass:** The graduate student is making satisfactory research progress commensurate with their time in the program, has maintained at least a 3.0 cumulative GPA, and has met other requirements of the program (e.g., formed a committee, presented a research proposal, etc.) in a timely manner.
- **Probationary Pass:** The graduate student has fallen behind schedule with respect to such requirements as formation of a committee, literature search and submission of a research proposal, scheduling and taking required examinations (for PhD students only), writing of the thesis or dissertation etc. (see degree timeline), or little or no research progress has been made since the last annual review. It may apply to a student receiving a grade lower than a B in a course during the previous year even though the (overall cumulative) GPA is 3.0 or higher. Committees awarding a Probationary Pass for students who have fallen behind schedule must provide a written rationale to the Graduate Committee and the Department Chair in the annual committee report, including clearly defined milestones or benchmarks the student must reach in order to bring their performance up to standard. The student must submit a remediation plan to their committee members addressing the concerns of the committee, including procedures for how milestones and benchmarks will be met, as well as a timeline, within two weeks of notification of their Probationary Pass. This plan must be signed by the major advisor and two other members of the student's advisory committee and presented for approval to the Graduate Program Director. Once approved, the remediation plan document will be placed in the student's file, and a copy given to the student. Furthermore, the graduate student must have a follow-up committee meeting within six months of the annual review to evaluate their progress on the remediation plan. At the conclusion of the six-month follow-up meeting, the student will be awarded either a Pass or a Fail.
- **Fail:** The graduate student's progress is unacceptable for reasons such as a cumulative GPA of less than 3.0 in all (both graduate and undergraduate) courses attempted, insufficient research progress, or not completing the degree within time limits without an acceptable/approved reason.

Graduate students receiving a ranking of Fail for any annual review, or two rankings of Probationary Pass for any two annual reviews, will be dismissed from the Biological Sciences Graduate Program.

Appeal of a dismissal decision. If a decision was made to dismiss the student from the program, the student may make a formal appeal. This should be done according to the University of Alabama's University-wide Academic Grievance Procedures, described in the faculty handbook and available online at <https://facultyhandbook.ua.edu/>.

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GRADUATE STUDENTS RECEIVING A RANKING OF “**Fail**” FOR ANY ANNUAL REVIEW, OR TWO RANKINGS OF “**Probationary Pass**” FOR ANY TWO ANNUAL REVIEWS, WILL BE DISMISSED FROM THE BIOLOGICAL SCIENCES GRADUATE PROGRAM.

The major professor shall inform the student in writing of the committee's evaluation within 2 weeks of the meeting. A copy of this report shall be sent to the Department Chair, Graduate Directors and the student's committee members via **Error! Hyperlink reference not valid.** *Since the committee evaluations are taken into consideration when assigning teaching assistantships and awarding research/travel funds, it is imperative that they be completed and submitted by January 10th of each year (March 1 or August 1 for first year students beginning in the fall or spring semesters respectively)*

If the student is progressing satisfactorily toward a degree, no further action is necessary. If the committee determines the student is not making satisfactory progress and awards a score below “Pass”, the student shall be informed in the committee evaluation of specific deficiencies and of the committee's recommendation(s) for correcting them.

It is the **primary responsibility of the student** to see that these deadlines are met. Failure to complete evaluations by this date will result in the student not being considered for graduate teaching assistantships.

6. Culminating “Capstone” Experience: In addition to earning a minimum of 30 semester hours of credit, candidates for the M.S. Plan II degree are required to complete one or more of the following:

- A. Non-thesis research project.** This requirement is met by completing a research project under the supervision and to the satisfaction of the student's M.S. Plan II Advisory Committee. The M.S. Plan II Advisory Committee determines the nature and extent of the research project. The student must prepare a report, present a public seminar, and pass an oral examination on this research. The oral exam will take place immediately following the public seminar. The research report must be submitted to the M.S. Plan II Advisory Committee for review at least 14 days prior to the public seminar and oral exam. In addition, a copy of the research report must be submitted to the department office and the public defense announced at least 14 days prior to the seminar and exam date. Students selecting this option may apply up to 6 hours of BSC 507/607 and up to 5 hours of BSC 598 toward fulfillment of requirements for the degree.
- B. Research practicum.** This requirement is met by earning 6 credit hours of BSC 507 (Research Techniques in Biology) under the supervision and to the satisfaction of the student's M.S. Plan II Advisory Committee. The M.S. Plan II Advisory Committee determines the nature and extent of the BSC 507 research project. Examples of research practicum experiences include, but are not limited

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to, conducting research in the M.S. Plan II Advisor's laboratory, at a regional research center (e.g., HudsonAlpha Institute for Biotechnology, Jones Center at Ichauway), or at a national lab (e.g., National Institutes of Health). The student must prepare a report, present a formal public seminar, and pass an oral exam on the research experience. The oral exam will take place immediately following the public seminar. The research report must be submitted to the M.S. Plan II Advisory Committee for review at least 14 days prior to the oral exam. In addition, a copy of the research report must be submitted to the Department office and the public seminar and exam announced at least 14 days prior to the date. Students selecting this option may apply up to 6 hours of BSC 507/607 toward fulfillment of requirements for the M.S. Plan II degree. BSC 598 may not be applied toward fulfillment of requirements for the degree under this option.

C. In-depth topical literature survey. Students selecting this option must prepare a formal paper and pass an oral exam on a research topic approved by the M.S. Plan II Advisory Committee. Students selecting this option may not apply BSC 507, BSC 598, BSC 607, or BSC 698 toward fulfillment of requirements for the degree.

7. Culminating "Capstone" Experience Proposal: A formal Capstone Experience proposal is required and should be completed by the end of the student's second semester in the program. This proposal should include a full but concise statement of the specific goals of the Capstone Experience. M.S. Plan II option A candidates must also include in their proposals the following:

1. A full but concise statement of the specific goals of the research.
2. A review of the relevant literature to place the proposed work in a solid theoretical context.
3. A discussion of the significance of the proposed research and how it addresses a novel question.
4. A description of the experimental design, including experimental methods, procedures, and methods used in analysis and interpretation of results.
5. Literature citations.

The M.S. Advisory Committee can establish additional requirements such as page length and format. The proposal should be submitted to and approved by the student's M.S. Advisory Committee not later than the end of the second semester. A new proposal will be required if the thesis research changes significantly.

8. Formal Departmental Seminar (M.S. Plan II Options A and B only): In addition to participation in the departmental research symposiums, a publicly announced final formal departmental seminar of the student's research is required for students selecting M.S. Plan II Options A and B. The seminar is scheduled immediately preceding the final oral examination. All students are required to notify departmental office personnel of the date, time and room location of their formal seminar and exam a minimum of **14 days prior to the date**. A title and an abstract must be submitted to the departmental office at

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the time of defense notification so that a public announcement can be made. In addition, a copy of the final draft of your thesis review must be made available to BSC faculty wishing to review it. The thesis review copy will be posted in a password-protected Box folder during the 2-week period preceding the defense.

9. Final Oral Examination: All M.S. Plan II students must pass a final oral examination related to their research or literature survey topic. Final oral examination questions may also include other subjects beyond the student's research that the M.S. Plan II Advisory Committee or other faculty members consider to be relevant. Final oral examinations must be taken not less than two weeks prior to the proposed graduation date. All committee members must attend and participate in the oral examination, either in-person or by electronic means (e.g., Zoom). All students are required to notify the departmental office of their final oral examination 14 days prior to the exam.

All departmental faculty have the right to attend the oral examination and have the right to ask questions of the student that are relevant to the goals of the examination. Only faculty on the student's committee may vote on whether the student has passed or failed the examination.

For M.S. Plan II as a transitional degree (pre-Ph.D.): In order to qualify for the M.S. degree, Ph.D. students must fulfill all requirements of the M.S. Plan II culminating "Capstone" experience option A, namely (i) submit a written report detailing the research experience, (ii) present a formal departmental seminar and (iii) pass a final oral examination. Research applied toward fulfillment of the M.S. Plan II degree requirements may not be applied toward fulfillment of Ph.D. degree requirements.

Each candidate for a master's degree must apply for graduation through the Office of the Graduate School no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed. The Application for Degree can be accessed via your myBama portal.

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C. M.A. Degree (without thesis)

1. Course Requirements: A minimum of 30 credit hours of graduate coursework is required including:

Coursework and Requirements	Credit Hours
<ul style="list-style-type: none">• At least 26 credit hours with a letter grade (i.e., not Pass/Fail)• A maximum of 6 credit hours with a letter grade may be taken from BSC 696 (Resident Study).• BSC 505 (Introduction to Graduate Studies in Biological Sciences)• At least one course designated as graduate level laboratory.• Additionally, M.A. students must enroll in either BSC 604 (Scientific Writing and Data Presentation) or BSC 610 (Pedagogy in Biological Sciences).• NOTE: Up to 4 hours of Pass/Fail credit can be applied toward fulfillment of degree requirements. Only BSC 601 may be applied as Pass/Fail credit for the M.A. degree.• Of the 30 required credit hours, 18 must carry the BSC or MS designation.	30

All courses taken for M.A. graduate credit hours must be numbered 400 and above. A maximum of 6 semester hours of 400-level course credit may be accepted for a master's degree only if all the following apply:

1. The 400-level courses taken are outside the Biological Sciences Department.
2. The department offering the 400-level course offers a graduate degree.
3. The 400-level course must carry appropriate extra work to be counted for graduate credit.
4. The student must have the consent of his/her committee chair.
5. Please contact the graduate program assistants to initiate this form through DocuSign.

Candidates for the M.A. degree must complete a culminating “Capstone” experience – a written review of a relevant topic in Biological Sciences and give a public presentation on the scope of this review (see Section 6, below).

BSC 598, 599, 507, 607, or 698 may not be applied toward this degree.

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Transfer credits: Up to 12 credit hours of graduate courses taken at other institutions and meeting Graduate School requirements may be transferred. Transfer credits are considered Pass/Fail for calculation of GPA, but are included in the 26 required graded course hours, provided they are from graded courses.

2. Residency Requirements: A student's program at the M.A. level must provide sufficient association with the resident faculty to permit individual evaluation of the student's capabilities and achievements. The student's Advisory Committee, with the approval of the Department Chair, will determine residency requirements.

3. M.A. Advisory Committee: The M.A. Advisory Committee must consist of at least three members. All members of an M.A. Advisory Committee must be members of the Graduate Faculty. The Department Chair is a non-voting, *ex officio* member of all graduate student committees. The Chair of the M.A. advisory committee may be any tenure/tenure-track member of UA Biological Sciences faculty. By default, the Chair will be the director of the M.A. program, unless the student selects another faculty member who agrees to this responsibility. The other two committee members are rotating members from the graduate faculty within the Department of Biological Sciences – each serving two-year terms on the committee.

Semesterly committee meetings will be held during, or near, the week of the 15th of the third month of each semester (Excluding summers: October and March). Earlier meeting dates may be held at the student's request. The committee will also meet, as needed, to administer all final examinations.

The M.A. Advisory Committee chair will nominate M.A. Advisory Committee members to the Department Chair using the form "MA APPOINTMENT OF PLAN II COMMITTEE FORM" (see <https://bsc.ua.edu/forms-for-graduate-students/>). The Graduate Program Office will forward this nomination to the Dean of the Graduate School who will make formal appointments. Nominations of outside members from other institutions require the nominee's CV, a letter of support explaining the need for affiliate graduate faculty status submitted by the student's major professor and a formal request for the affiliate graduate faculty appointment from the Department Chair. Nominations should be submitted to the Graduate Program Office who will direct the form to the Department Chair, who will then relay the formal request to the Graduate School.

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4. Degree Timeline: Students must meet the following milestones by the indicated dates to achieve an acceptable evaluation score at semesterly performance reviews.

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| 1. Choose M.A. Advisor | Complete within first 4 weeks of first semester – if alternate advisor is requested |
| 2. Choose M.A. Advisory Committee | Complete prior to first committee meeting – if alternate committee member is requested |
| 3. Semesterly committee meetings | During or near the week of October 15 and March 15 |
| 4. Capstone experience topic | Submit to committee two weeks prior to student's first committee meeting |
| 5. Coursework | Expected to be complete by end of fourth semester |
| 6. Submit Capstone Experience outline | Submit to committee chair no later than the first week of final month of the student's penultimate semester (December or May) |
| 7. Submit first draft of Capstone Experience | To full committee: No later than two weeks before the final committee meeting; Comments returned within 2 weeks – earlier drafts may be submitted to committee chair for review |
| 8. Submit final draft of Capstone experience | No later than the 15 th of fourth month of the student's final semester (April or November) |
| 9. Apply for graduation | No later than the first week of classes of intended semester of graduation |
| 10. Formal Departmental Presentation and Oral exam | Expected to be complete by end of the second year. Must be completed by date set by graduate school for Last day to submit a master's degree Exam Form. |
| 11. Submit Completion of requirements for M.A. degree documentation forms | After successful completion of final Oral exam (but, no later than 3 weeks prior to commencement; see Graduate School Deadlines) |

Students who plan an August graduation are expected to meet all deadlines for the penultimate and final semesters with the exception of dates for the final draft and the formal departmental presentation and oral exams. See [Graduate School Deadlines](#) for the last day to report the results of final comprehensive examinations.

According to Graduate School policy, all requirements for the M.A. degree must be completed during the six calendar years immediately preceding the date on which the degree is to be awarded. *The Department expectation is that M.A. students complete their degree in accordance with the M.A. timeline as outlined in this section.*

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Semesterly Progress Review: Each M.A. student will meet with the advisory committee during, or near, the week of the 15th of October and March for the purpose of reviewing student progress during the previous academic semester. Earlier committee meetings may be held at the request of the student or the committee chair.

The M.A. Committee chair will also schedule monthly one-to-one meetings (Fall and Spring semesters) with each M.A. student to review academic progress and development of the Capstone Experience.

Application for review: Upon completion of each semesterly review, each graduate student must initiate the committee review process by completing the application for committee review through the following link: <https://biograd.as.ua.edu>. When prompted enter your CWID then complete all requested information, including selection of all departmental committee members.

The student is expected to make a formal presentation to the committee during the semesterly meetings. This presentation should include a description of progress made with respect to scholarly work and research toward the literature review. When the presentation has been completed, the student will be asked to leave the room and the committee shall then evaluate the student's progress. This evaluation will result in a "Pass", "Probationary pass", or "Fail". Guidelines for these rankings are given below:

- **Pass:** The graduate student is making satisfactory research progress commensurate with their time in the program, has maintained at least a 3.0 cumulative GPA, and has met other requirements of the program (e.g., formed a committee, presented a research proposal, etc.) in a timely manner.
- **Probationary Pass:** The graduate student has fallen behind schedule with respect to such requirements as formation of a committee, literature search and submission of a research proposal. It may apply to a student receiving a grade lower than a B in a course during the previous semester even though the (overall cumulative) GPA is 3.0 or higher. Committees awarding a Probationary Pass for students who have fallen behind schedule must provide a written rationale to the Graduate Committee and the Department Chair in the semesterly committee report, including clearly defined milestones or benchmarks the student must reach in order to bring their performance up to standard. The student must submit a remediation plan to their committee members addressing the concerns of the committee, including procedures for how milestones and benchmarks will be met, as well as a timeline, within two weeks of notification of their Probationary Pass. This plan must be signed by all members of the student's advisory committee and presented for approval to the Graduate Program Director. Once approved, the remediation plan document will be placed in the student's file, and a copy given to the student. Furthermore, the graduate student must have a follow-up committee meeting within three months of the annual review to evaluate their progress on the remediation plan. At the conclusion

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of the six-month follow-up meeting, the student will be awarded either a Pass or a Fail.

- **Fail:** The graduate student's progress is unacceptable for reasons such as a cumulative GPA of less than 3.0 in all courses attempted, insufficient research progress, or not completing the degree within time limits without an acceptable/approved reason.

Graduate students receiving a ranking of Fail for any annual review, or two rankings of Probationary Pass for any two annual reviews, will be dismissed from the Biological Sciences Graduate Program.

Appeal of a dismissal decision. If a decision was made to dismiss the student from the program, the student may make a formal appeal. This should be done according to the University of Alabama's University-wide Academic Grievance Procedures, described in the faculty handbook and available online at <https://facultyhandbook.ua.edu/>.

GRADUATE STUDENTS RECEIVING A RANKING OF “**Fail**” FOR ANY ANNUAL REVIEW, OR TWO RANKINGS OF “**Probationary Pass**” FOR ANY TWO ANNUAL REVIEWS, WILL BE DISMISSED FROM THE BIOLOGICAL SCIENCES GRADUATE PROGRAM.

The committee chair shall inform the student in writing of the committee's evaluation within 2 weeks of the meeting. A copy of this report shall be sent to the Department Chair, Graduate Directors and the student's committee members via biograd.as.ua.edu. If the student is progressing satisfactorily toward a degree, no further action is necessary. If the committee determines the student is not making satisfactory progress and awards a score below “Pass”, the student shall be informed in the committee evaluation of specific deficiencies and of the committee's recommendation(s) for correcting them. It is the **primary responsibility of the student** to see that these deadlines are met. Failure to complete evaluations by this date will result in the student not being considered for graduate teaching assistantships.

6. Culminating “Capstone” Experience: In addition to earning a minimum of 30 semester hours of credit, candidates for the M.A. degree are required to complete the following Capstone Experience:

In-depth topical literature survey. Students must prepare a formal paper, and publicly present and pass an oral exam on a literature topic approved by the M.A. Advisory Committee. During the semesterly committee meetings, the student and committee members will establish specific timelines, due dates, a topic and parameters of the written review (page length, style, citation number, etc...). The timelines will address when the topic must be selected and approved, when a first draft of the outline and citation list must be provided to the committee, as well as when the first and penultimate drafts of the document must be submitted to the committee and comments returned to the student. The general dates detailed in section 4 should serve as guides for establishing these deadlines.

7. Formal Departmental Presentation and Oral Examination: In addition to participation in the departmental research symposiums, a publicly announced final formal departmental presentation on the topic of the student's literature review is required for M.A. students. The presentation is scheduled immediately preceding the final oral examination. All students are required to notify departmental office personnel of the date, time and room location of their formal presentation a minimum of **14 days prior**. A title and an abstract must be submitted to the departmental office at the time of notification so that a public announcement can be made. In addition, a copy of the final draft of your review must be made available in the departmental office for those wishing to review it. The report copy will be made publicly available during the 2-week period. The absolute final date to schedule the formal departmental presentation and oral examination is the day preceding that set by the graduate school as the last day to report the results of final comprehensive examinations: [Graduate School Deadlines](#).

Failure to meet any of these requirements will result in a delay of the M.A. examination.

Final Oral Examination: All M.A. students must pass a final oral examination related to their literature survey topic. Final oral examination questions may also include subjects beyond the student's literature review and reflect material pertinent to graduate level coursework undertaken by the student. Final oral examinations must be taken not less than two weeks prior to the proposed graduation date. All committee members must attend and participate in the oral examination, either in-person or by electronic means (e.g., Zoom). All students are required to notify the departmental office of their final oral examination 14 days prior to the exam.

All departmental faculty have the right to attend the oral examination and have the right to ask questions of the student that are relevant to the goals of the examination. Only faculty on the student's committee may vote on whether the student has passed or failed the examination.

Each candidate for a master's degree must apply for graduation through the Office of the Graduate School no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed. The Application for Degree can be accessed via your myBama portal.

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D. Ph.D. Degree

1. Course requirements:

At least 54 credit hours of graduate coursework are required including:

Coursework and Requirements	Credit Hours
BSC 699 (Dissertation Research)*	18
At least 30 <u>graded</u> semester hours (i.e., not Pass/Fail), which may include: <ul style="list-style-type: none">• Up to 3 graded hours of BSC 507 (Research Techniques in Biology)• Up to 3 graded hours of BSC 607 (Advanced Research Techniques in Biology)• Letter graded courses including BSC 695 (Special Topics) Up to 6 hours of Pass/Fail credit can be applied toward fulfillment of degree requirements. Pass/Fail hours can include BSC 698 (Non-Dissertation Research) and up to a total of 4 semester hours of BSC 601 (continuous enrollment in BSC 601 is required). NOTE: Of the 36 semester hours <u>other than BSC 699</u> , 24 must carry the BSC designation.	36

All students must pass the Preliminary Examination and gain degree candidacy before enrolling in BSC 699. Once a student has enrolled in BSC 699, they must continue to enroll in at least 3 semester hours of BSC 699 every semester. The last semester the student may enroll in 1 hour of dissertation research.

Per the Graduate School Catalog, all doctoral students must have a completed the form "OUTLINE of Ph.D. PLAN OF STUDY" approved by the Graduate School no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit toward the doctoral degree. Otherwise, a "hold" may be placed on future course registrations. This document is a DocuSign form. Please contact the graduate program assistants to initiate this form.

All graduate credits taken in the doctoral program must be in courses numbered 500 or above. BSC 599 may not be applied toward this degree.

A Ph.D. coursework fill-in sheet to assist in tracking progress toward meeting course requirements is available on the Department of Biological Sciences website (<https://bsc.ua.edu/forms>).

Transfer credits: With the approval of the student's Ph.D. Advisory Committee and the Dean of the Graduate School, up to 18 of the required course hours may be transferred from another institution. The "REQUEST FOR TRANSFER OF GRADUATE CREDIT" form should be initiated by the student to the graduate program assistants in Biology.

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The form will be submitted through DocuSign to the Graduate School Office. This should be completed during the first semester enrolled at the University of Alabama. If the student earned an M.S. at the University of Alabama, all applicable hours (i.e., course hours for which graduate credit has been received in the same department or in a closely affiliated department, but not including BSC 598 or BSC 599) may transfer to the Ph.D. program. The number of hours that qualify for transfer is at the discretion of the Department of Biological Sciences, as recommended by the student's Ph.D. Advisory Committee and as approved by the Dean of the Graduate School. Subject to the approval of the student's Ph.D. Advisory Committee, graduate courses in allied departments may be taken to meet the remainder of the requirements. Transfer credits are considered Pass/Fail for calculation of GPA, but are included in the 48 required graded course hours, provided they are from graded courses.

2. Residency: The University of Alabama recognizes that doctoral students should be immersed in advanced study and inquiry, interact extensively and meaningfully with faculty and peers, engage with the academic community in their field, and have access to the educational resources of the University. To achieve these goals, a minimum of 50 percent of coursework hours to be counted in a student's doctoral program must be from The University of Alabama (exclusive of dissertation research hours and subject to the Graduate Catalog's Transfer of Credit policies). Additionally, 100 percent of dissertation credit hours must be from The University of Alabama. Diverse academic traditions, rapidly changing instructional modalities, and new student populations are acknowledged and accommodated with this policy.

To meet this requirement, only non-dissertation coursework can be applied. Dissertation or thesis research (BSC 599 or BSC 699) cannot be used. Distance-learning courses delivered online or by any other distance-learning format may not be used to satisfy the doctoral residency requirement.

The minimum period in which the doctoral degree can be earned is three full academic years of graduate study after completion of a baccalaureate degree, although in most disciplines the period is longer. Graduate teaching assistants (GTA) or graduate research assistants (GRA) whose work assignments are 3 semester hours (i.e., 10-12 work hours or 0.25 FTE) per week or more should expect to spend more than the minimum period of three academic years to earn a doctoral degree.

3. Advisory and dissertation committees: There are two types of committees required during the Ph.D. Both committees must consist of at least five members, and all members must be members of the Graduate Faculty. The majority of the committee members must be faculty members in the Department of Biological Sciences. The Department Chair is a non-voting, *ex officio* member of all graduate student committees.

a. Ph.D. Advisory Committee: A student must form a Ph.D. Advisory Committee prior to their first semester review meeting. The first committee meeting is to be held after completion of the first semester of studies (by January 31st for students entering in the fall semester and by June 30th for students entering in the spring semester) to

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evaluate progress toward a degree. In subsequent years of study, the committee will meet prior to December 15th to review progress during the previous academic year. It will also meet as needed to administer all qualifying and final examinations, and to examine and approve the dissertation.

The Ph.D. Advisory Committee may include no more than two members from outside the student's major department and may be from another research institution.

b. Ph.D. Dissertation Committee: Once a Ph.D. student has passed their preliminary examinations and been admitted to candidacy the advisory committee must include at least one member from outside the student's major department. No more than two members can be outside the student's major department. This external Ph.D. Dissertation Committee member may replace an existing Ph.D. advisory committee member. However, the Ph.D. Dissertation Committee must consist of at least five members including the external member: All are voting members regarding the candidate's progress toward degree.

The student will complete the Ph.D. Committee form by going to the Graduate School's website: graduate.ua.edu. Select the "Current Students" tab at the top of the page. Scroll down to the "Student Portal" block. This will take the student to the login to submit the dissertation committee form.

Nominations of outside members from other institutions require the nominee's CV, a letter of support explaining the need for affiliate graduate faculty status submitted by the student's major professor and a formal request for the temporary graduate faculty appointment from the Department Chair. Nominations should be submitted to the Graduate Program Office who will direct the form to the Department Chair, who will then relay the formal request to the Graduate School.

In accordance with Graduate School policy, this external committee member **must be nominated and in place within one year of the projected dissertation date.**

Degree Timeline: Students must meet the following milestones by the times indicated to maintain the highest priority for financial assistance and achieve an acceptable evaluation score at annual performance review.

- | | |
|------------------------------------|---|
| 1. Choose Ph.D. Mentor | Complete prior to first semester review |
| 2. Choose Ph.D. Advisory Committee | Complete prior to first semester review |
| 3. Plan of Study | Complete prior to first semester review
Present to committee at 1st annual evaluation (no later than the semester during which the student will complete 30 semester hours of UA and/or transfer credit) |

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- | | |
|---|--|
| 4. First semester review | After completing the first semester of studies (Jan. 31 for students entering in fall, June 30 for spring) |
| 5. Dissertation research proposal | Present to committee for approval prior to or during 2nd annual review |
| 6. Annual Reviews | Prior to December 15 th of each year of study |
| 7. Preliminary exams | Complete by end of fifth semester |
| 8. Establish PhD Dissertation Committee | Prior to one year before expected dissertation date, establish one external committee member and contact graduate program assistants to initiate the Appointment or Change of Doctoral Dissertation Committee Form |
| 9. Take Dissertation credits (BSC 699) | Beginning of sixth semester (but not before completion of preliminary exams) |
| 10. Apply for graduation | No later than the first week of classes of the intended semester of graduation |
| 11. Submit Dissertation to committee | At least 2 weeks prior to Oral Defense |
| 12. Formal Departmental Presentation and Oral defense | Complete by end of the fourth or fifth year (depending on highest degree upon entering program) |
| 13. Submit Dissertation (final form) to Grad School | Contact graduate program assistants to initiate the Committee Acceptance Form for Electronic Thesis or Dissertation through DocuSign. |

Once the preliminary exam is completed, the **Continuous Dissertation Registration for Doctoral Students** requirement applies. Once a student has met the requirements for admission to candidacy, received approval for the dissertation research proposal, or initiated enrollment in 699 (dissertation research for a doctoral degree), the student must pursue completion of the dissertation without interruption by enrolling each fall and spring semester of the academic year for at least 1 hour of dissertation research. (Note: If you have a GTA or GRA you must be registered for a total of 6 hours. See the Graduate School Catalog for details.

In accordance with Graduate School policy, all requirements for the doctoral degree must be completed within a period of seven years following admission to the doctoral program. Credits earned towards a M.S. degree may be applied to the doctoral degree if they were earned during the 6-year period prior to admission to the doctoral program. If a student fails to register for three consecutive years, the student must reapply for admission. A Ph.D. timeline checklist is available on the Department of Biological Sciences website (<http://bsc.ua.edu/forms>). Each student's checklist will be updated at each annual progress review and appended to the report submitted by the advisor to the Department Chair.

4. **Annual Progress Review:** Each graduate student will meet annually prior to December 15th with his/her Ph.D. Advisory Committee for the purpose of reviewing the student's progress toward a degree during the previous academic year. First year students must meet with their committee after completing the first semester of studies (by January 31st for students entering in the fall semester and by June 30th for students entering in the spring semester). These evaluations are a part of the data used to establish priorities for assistantships. The student is expected to make a formal presentation to the committee during the annual meeting. This presentation shall include a description of progress made with respect to research and completion of other degree requirements. When the presentation has been completed, the student will be asked to leave the room and the committee shall then evaluate the student's progress. This evaluation will result in a "Pass", "Probationary pass", or "Fail". Guidelines for these rankings are given below:

- **Pass:** The graduate student is making satisfactory research progress commensurate with their time in the program, has maintained at least a 3.0 cumulative GPA, and has met other requirements of the program (e.g., formed a committee, presented a research proposal, etc.) in a timely manner.
- **Probationary Pass:** The graduate student has fallen behind schedule with respect to such requirements as formation of a committee, literature search and submission of a research proposal, scheduling and taking required examinations (for PhD students only), writing of the thesis or dissertation etc. (see degree timeline), or little or no research progress has been made since the last annual review. It may apply to a student receiving a grade lower than a B in a course during the previous year even though the (overall cumulative) GPA is 3.0 or higher. Committees awarding a Probationary Pass for students who have fallen behind schedule must provide a written rationale to the Graduate Committee and the Department Chair in the annual committee report, including clearly defined milestones or benchmarks the student must reach in order to bring their performance up to standard. The student must submit a remediation plan to their committee members addressing the concerns of the committee, including procedures for how milestones and benchmarks will be met, as well as a timeline, within two weeks of notification of their Probationary Pass. This plan must be signed by the major advisor and two other members of the student's advisory committee and presented for approval to the Graduate Program Director. Once approved, the remediation plan document will be placed in the student's file, and a copy given to the student. Furthermore, the graduate student must have a follow-up committee meeting within six months of the annual review to evaluate their progress on the remediation plan. At the conclusion of the six-month follow-up meeting, the student will be awarded either a Pass or a Fail.
- **Fail:** The graduate student's progress is unacceptable for reasons such as a cumulative GPA of less than 3.0 in all (both graduate and undergraduate) courses attempted, insufficient research progress, or not completing the degree within time limits without an acceptable/approved reason.

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Appeal of a dismissal decision. If a decision was made to dismiss the student from the program, the student may make a formal appeal. This should be done according to the University of Alabama's University-wide Academic Grievance Procedures, described in the faculty handbook and available online at <https://facultyhandbook.ua.edu/>.

GRADUATE STUDENTS RECEIVING A RANKING OF “**Fail**” FOR ANY ANNUAL REVIEW, OR TWO RANKINGS OF “**Probationary Pass**” FOR ANY TWO ANNUAL REVIEWS, WILL BE DISMISSED FROM THE BIOLOGICAL SCIENCES GRADUATE PROGRAM.

The major professor shall inform the student in writing of the committee's evaluation within 2 weeks of the meeting. A copy of this report shall be sent to the Department Chair, Graduate Directors and the student's committee members via biograd.as.ua.edu. *Since the committee evaluations are taken into consideration when assigning teaching assistantships and awarding research/travel funds, it is imperative that they be completed and submitted by January 10th of each year (March 1 or August 1 for first year students beginning in the fall or spring semesters respectively)*

Since the committee evaluations are taken into consideration when assigning teaching assistantships, it is imperative that they be completed and submitted to the Department Chair by January 10th of each year. It is the responsibility of the student and committee to see that this is done. Failure to complete evaluations by this date will result in the student not being considered for graduate teaching assistantships.

6. Dissertation research proposal: A formal research proposal is required. The proposal should be defended no later than the second annual progress review held in the fall semester of the student's third year in the Graduate Program. A new proposal will be required if the dissertation research changes significantly. This proposal should include:

1. A full but concise statement of the specific goals of the research.
2. A review of the relevant literature to place the proposed work in a solid theoretical context.
3. A discussion of the significance of the proposed research and how it addresses a novel question.
4. A description of the experimental design, including experimental methods, procedures, and methods used in analysis and interpretation of results.
5. Literature citations.
6. Budget.

7. Preliminary Exams: Ph.D. students must pass both a Written Preliminary Exam and an Oral Preliminary Exam before candidacy is granted. Both Preliminary Exams should be completed by end of the fifth semester in the Graduate Program. However, under some circumstances, the student's advisor may request up to a one-year extension of this deadline. This extension must be approved the student's advisory committee and the student's advisor should forward this request along with a short justification to the Graduate Program Director at least one

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semester in advance of the deadline. Students who fail to complete their preliminary exams in advance of their deadline will not be eligible for travel award or internal departmental funding and will be awarded a "Probationary Pass" at their evaluation(s) until they reach compliance. Note that students receiving two rankings of "probationary pass" for any two annual reviews, will be dismissed from the Biological Sciences graduate program.

a. Written Preliminary Exam: The department uses two forms of the written exam. The advisor must approve which exam the student will take.

Option 1 – Traditional - The examination shall be arranged and administered by the major professor. Each member of the Ph.D. Advisory Committee shall contribute five questions. The outside member of the committee is encouraged but is not required to participate in the exam. However, if they do not, then the student's committee for the purpose of this exam must consist of at least 5 members from inside the department. The examination shall be administered over no more than 14 consecutive days with one day allowed for each set of questions. Each answer will be graded "Pass" or "Fail." Questions may involve intellectual synthesis as well as basic concepts. Each examiner will award grades without prior knowledge of the student's performance on other parts of the examination and report the results to the student's major professor within five days of the examination. The student must pass at least 19 of 25 questions, or 76% of the questions asked in cases of committees with more than five members.

Option 2 – Proposal based - The examination shall be arranged and administered by the major professor. Each member of the Ph.D. Advisory Committee shall contribute to the review of the proposal. The outside member of the committee is encouraged but is not required to review the proposal. However, if they do not, then the student's committee for the purpose of this exam must consist of at least 5 members from inside the department. Students will be expected to demonstrate the following:

1. The ability to identify a substantive proposal topic
2. The ability to formulate valid and testable hypotheses
3. The ability to identify the importance of and justification for the proposed research, by preparing a comprehensive review of related research literature and presenting the proposed project in that context
4. The ability to prepare a sound research plan that includes both appropriate techniques and approaches suitable for the testing of the hypotheses and alternative strategies and hypotheses.

The procedures for the proposal-based Written Preliminary Exam are:

1. Students should submit to their committees one or more topics, as required by their committees, with a one-paragraph justification of the topic. The committee will approve proposal topics prior to initiation of proposal preparation. If a submitted topic is not acceptable, the student will be asked to revise and resubmit topics.

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2. The topics may be completely distinct from ongoing research in the student's lab, may build upon current or previous work in the lab, or may be related to the topic of the student's doctoral research, **as long as the proposed research demonstrates scientific independence and does not simply reproduce an experimental plan already proposed in the doctoral adviser's research grants or in the student's dissertation research proposal.**
3. The term of the proposed research should be consistent with federal funding opportunities, contingent on committee approval.
4. The proposal should be written following the format of research proposals as described on page 50. Failure to comply with any formatting requirement will result in return of the proposal to the student. Corrected copies must be resubmitted one day later.
5. Students will have a maximum of two months to prepare the proposal after the committee's notification of topic selection.

Evaluation of the proposal will be based on the following considerations:

1. Scope of the proposal (10%). Is the research topic novel and important? Is the proposed project appropriate for the approved term (e.g., 3 years, 5 years)?
2. Background (30%). Is the literature survey comprehensive and appropriate? Does the literature survey identify a problem or series of problems that justifies the direction of the proposal?
3. Experimental plan (40%). Are there clearly stated hypotheses for each section, or at least clearly stated expectations of experimental outcomes? Are the proposed experiments appropriate tests of the hypotheses? Does the author have realistic expectations of the experimental methods? Are alternate hypotheses and experimental approaches proposed to cover the possibilities that: (i) the primary approaches prove to be inappropriate, (ii) the primary approaches disprove the hypotheses?
4. Presentation (20%). Is the proposal well organized and clearly written?

For the written examination (either option), the student must demonstrate proficiency in technical writing. Note that if an answer is not formulated in a technically acceptable writing format it may be marked as a fail. Evidence of academic misconduct in any part of the examination will result in a failing grade for the written examination. An *average weighted cumulative score* of no greater than 19/25 must be earned in order to pass the proposal-based written exam. Each of the above evaluation criteria will be assigned a score of 1-5 as follows: 5=Outstanding, 4= Excellent, 3= Good/Average, 2= Fair, 1= Poor.

The Advisory Committee is expected to notify the student of their preliminary written exam score within 30 days after submission of the exam to the committee. *The submitted exam must be graded by the Ph.D. Advisory Committee. It is against program policy to permit a student to revise the submitted exam in any fashion prior to grading it.* The final graded version of the written exam and a Biological Sciences Ph.D. Candidacy Exam Evaluation Form should be placed in the student's official departmental file.

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A student who fails the traditional written exam will be allowed to retake the entire examination (i.e., five questions from each committee member) once. Any second attempt must be made within three months of notification of failure of the first attempt. A student who fails the proposal-based written exam will be allowed to revise the proposal once. The revision must be submitted to the Ph.D. advisory committee within two months of notification of failure of the first attempt.

b. Oral Preliminary Exam: To qualify to take the Oral Preliminary Exam the student must have passed the Written Preliminary Exam. The Oral Preliminary Exam will follow the written portion by not more than two weeks from the date of notification of passing the Written Preliminary Examination. It is a comprehensive examination intended to determine the student's knowledge of basic principles of biological sciences, as well as specific knowledge of the student's research area. When a student has prepared a research proposal as their Written Preliminary Exam (Option 2), the student may be questioned on that proposal as well as on basic and specific information pertaining to their field of study. The student's entire Ph.D. Advisory Committee must attend the Oral Preliminary Exam and constitutes the voting committee regarding the passage or failure of the examination. Committee may participate virtually in the case of illness or required travel, if the member(s) can see and hear the presentation and actively participate in questioning of the candidate. The student's advisor must adhere to the technical requirements put forth by the Graduate School. Under exceptional circumstance, the student may be allowed to participate virtually. The student must obtain the approval of their committee chair and petition the BSC Graduate Program Director.

A student who fails the oral exam will be allowed to retake the examination once (within three months of the original exam) if they have not failed their written exam on the first attempt.

Any combination of 2 failed attempts at the written and/or oral examinations will lead to dismissal from the program. In other words, failing the written portion of the examination and subsequently failing the rewrite will lead to dismissal. Similarly, failing the oral component and the subsequent re-examination would lead to dismissal. Likewise, failing both initial attempts at written and oral examinations will lead to dismissal.

The graduate student, the Department Chair, and the Dean of the Graduate School shall be notified by the major professor, in writing, of the results of the preliminary exam within a week after the exam is completed via the DOCTORAL QUALIFYING EXAMINATION form. Upon successful completion of written and oral preliminary exams, initiate the form ADMISSION TO CANDIDACY FOR DOCTORAL DEGREE to the graduate program assistants in the main biology office. The student is now eligible to enroll in BSC 699 Research Related to Dissertation.

8. Research Expectations: All Ph.D. students are expected to make a meaningful contribution to their chosen research area. Prior to their dissertation defense, all students in the Ph.D. program **must** submit for publication to a peer-reviewed journal at least one first-author manuscript containing data produced by the student during

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enrollment in the Ph.D. program. Proof of submission (e.g., confirmation e-mail from journal editor) must be submitted to the Graduate Program Office.

Requests for exceptions to this policy must be endorsed by a student's Dissertation Committee and approved by the BSC Graduate Committee Chairs and Department Chair prior to the dissertation defense.

9. Formal Departmental Dissertation Seminar and Oral Examination (defense): In addition to participation in the departmental research symposiums, a publicly announced final formal departmental dissertation seminar (or defense) of the student's research is required. The seminar is scheduled immediately preceding the final oral examination. All students are required to notify departmental office personnel of the date, time, and room location of their formal dissertation a minimum of 14 days prior to the dissertation defense. A title and an abstract must be submitted to the departmental office at the time of dissertation notification so that a public announcement can be made. In addition, a copy of the final draft of your dissertation review must be made available to BSC faculty wishing to review it. The dissertation review copy will be posted in a password-protected Box folder during the 2-week period preceding the defense.

All students must pass a final oral examination related to their dissertation. Final oral examination questions may also include other subjects beyond the student's research that the Ph.D. Advisory Committee or other faculty deem relevant. Final oral examinations for the Ph.D. must be taken not less than six weeks prior to the proposed graduation date. The outside member of the student's committee must attend and participate in the final defense; this may be a virtual presence if the member can see and hear the presentation and actively participate in questioning of the candidate. All departmental faculty have the right to attend the oral defense and have the right to ask questions of the student that are relevant to the goals of the examination. Only faculty on the student's committee may vote on whether the student has passed or failed the examination.

Upon successful defense of the dissertation the Ph.D. FINAL DEFENSE FORM must be initiated through DocuSign by the graduate program assistants in the graduate program office.

Each candidate for a doctoral degree must apply for graduation through the Office of the Graduate School no later than the registration period for the semester or the first session of the summer term in which requirements for the degree are to be completed. The Application for Degree can be accessed via your myBama portal.

CHANGING PROGRAMS

Conditional M.S. to M.S. and Conditional Ph.D. to Ph.D.

All students admitted conditionally to the Biological Sciences Graduate Program must maintain a 3.0 GPA for the first 12 hours of courses (both undergraduate and graduate) taken as a student in the Department of Biological Sciences at The University of Alabama. All hours taken in the semester in which the student reaches 12 hours will be considered even if the total exceeds 12 hours. In addition, the student must maintain a 3.0 GPA in the first 12 hours of graduate courses. Failure to meet either of these requirements will result in Academic Suspension (dismissal) from the program. When a student satisfies both of these conditions, the student is then given the status of a regularly admitted student.

M.S. to Ph.D.

Students may apply to enter the Ph.D. program while currently enrolled in the M.S. program without completing the M.S. if: 1) they entered under a regular admission; 2) they are in good standing; and 3) their current (or an alternative) major professor supports their application. Students must complete an online expedited master's to Doctoral Program application form via the Graduate School website (<https://graduate.ua.edu/prospective-students/apply-now/>). The application must include at least three letters of recommendation from among the faculty of the Department of Biological Sciences and a brief statement concerning the proposed doctoral research. The student's academic record will be reviewed. Additional pertinent information, such as papers presented, meetings attended, and manuscripts submitted, in press, or published, should be included in the application. Students in the Accelerated Master's Program cannot enter into the Ph.D. program without completing their master's.

Conditional M.S. to Ph.D.

All students that are conditionally admitted to the M.S. program are required to complete a M.S. Degree (either Plan I or II) prior to applying to enter the Ph.D. program. Requests for exceptions to this policy must be endorsed by a student's Supervisory Committee and approved by the BSC Graduate Committee and Department Chair.

Plan II M.S. for Students Unable to Fulfill Requirements for the Ph.D. Degree:

Students in good standing who do not pass the Ph.D. preliminary exam after two attempts, are dismissed from a laboratory by their advisor and cannot identify a new advisor, or decide to leave the Ph.D. Program after passing the preliminary exam but prior to completing the Ph.D. dissertation can apply for a Plan II M.S. degree after (1) submitting a written report detailing their research experience, (2) presenting a formal departmental seminar on their research, and (3) passing a final M.S.-level oral exam.

Master's en route to Ph.D.

A doctoral student earning a master's degree en route to the Doctoral degree will need to submit an application to the master's degree program through Slate (go to graduate.ua.edu and click on "apply now"). This will be a very quick process (no application fee, no need for letters of recommendation, no transcripts).

CHOOSING A RESEARCH MENTOR AND LABORATORY

Prior to admission

Most successful applicants will contact potential mentors during the application process. The departmental website (see <https://bsc.ua.edu/classification/faculty-and-instructors>) lists faculty and provides a link to individual pages that describe their research interests.

Changing research mentors

“M.S. students are advised to do this prior to their third semester. If a Ph.D. student wishes to change mentors during or beyond their fourth semester in the program, they must first complete a M.S. degree in their current lab. The student should then apply for the PhD. With their new mentor. In cases where this is not possible (e.g., if their advisor resigns from U.A.), adjustments to this policy will be made at the discretion of the Graduate Committee.”

a. Student Initiated: Students wishing to change research mentors should complete the following steps:

1. Speak to Graduate Program Director or Departmental Chair.
2. Contact other potential advisors.
3. Choose new advisor by mutual consent of student and new advisor.
4. Inform the Department Chair, Graduate Program Director, and old and new research mentors.
5. Complete the Change of Advisor form on our bsc website (bsc.ua.edu)
6. Choose a new committee (within 30 days) follow steps below:
Go to the Graduate School website (graduate.ua.edu)
Click Current Student tab at the top of the page. Select the “Current Students”
Scroll down to the “Student Portal” block. This will take you to the login to complete your form.

b. Advisor Initiated: Faculty mentors may dismiss a graduate student from their lab by completing the following steps:

1. Document the problem with the student and the changes requested of the student. Meet with the student to discuss the problem and present the student with the requested changes. If the student fails to perform the requested changes, repeat the documentation and meeting. If the student again fails to perform the requested changes, the faculty mentor may initiate the dismissal procedure.
2. Send the above documentation to the Graduate Program Director and the Departmental Chair.
3. Meet with the student and, if appropriate, the Graduate Program Director or Department Chair to inform the student of his/her dismissal.
4. The student should contact other potential research mentors.
5. The student should choose a new research mentor by mutual consent of the student and the new faculty mentor.

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6. The student should inform the Graduate Program Director or the Department Chair of the new faculty advisor. The Graduate Program Director or Department Chair will then officially inform all involved parties (the Department Chair, the previous faculty mentor, and the new faculty mentor) of the change.
7. Within 30 days of the official change in mentor, the student and the new faculty mentor should choose a new graduate advisory committee and file the CHANGE OF DISSERTATION OR MASTER'S THESIS COMMITTEE form. Follow the steps below to complete this form.

Select the "Current Students" tab at the top of the page. Scroll down to the "Student Portal" block. This will take you to the login to submit the change of dissertation or thesis committee form.

FINANCIAL ASSISTANCE

The Department endeavors to maintain funding for all graduate students admitted with an offer of a fellowship or assistantship, although the length of time of this commitment is limited. The total time period of this support depends on the previous degree(s) earned and the degree sought. These are: Entering M.S. student – 2 years, Entering Ph.D. student with a M.S. degree – 4 years, Entering Ph.D. student with a bachelor's degree – 5 years. Support can be through fellowships, teaching assistantships, research assistantships or any combination thereof.

The Graduate School's website: (<https://graduate.ua.edu/students/financial-support/https://graduate.ua.edu/students/financial-support/>) has assistance available to current graduate students. The Graduate Committee nominates incoming students for many of the available awards (e.g., Graduate Council Fellowships, NAA License Tag Graduate Fellowship, McNair Graduate Fellowships) while the Awards Committee nominates current students for other available awards (e.g., Research and Creative Activity Graduate Council Fellowships). The Department Chair awards Graduate Teaching Assistantships (GTAs). The priorities for awarding GTAs are:

1. Staffing laboratory sections that require special skills or knowledge
2. Current students in good standing
3. Incoming students (faculty status and equity among faculty influences priority among this pool of students)
4. Current students that have exceeded their specific total period of support

FORMS

IMPORTANT: The Graduate School has changed the process for completing most forms

As of summer, 2020 there are some important changes in the flow for processing most forms related to the graduate program. These include committee appointment and changes (except for Plan II MS and MA; see below), plan of study, candidacy, thesis and dissertation defense, and several other forms. These forms now need to be filled out by a department designee. Please contact Josh McCracken (mccra016@ua.edu) or Debbie Eads (deads@ua.edu) to initiate the process.

Forms that are now handled through DocuSign:

Master's Students

- Master's Exam Form
- Master's Capstone Project Form
- Thesis Final Defense Form
- Committee Acceptance Form for Electronic Thesis

Doctoral Students

- Outline of Ph.D. Program (Plan of Study)
- Admission to Candidacy for the Doctoral Degree
- Doctoral Qualifying Exam Form
- Doctoral Final Defense Form
- Committee Acceptance Form for Electronic Dissertation

Additional forms that are still handled by the department and do not use the DocuSign system: (Please contact Josh McCracken (mccra016@ua.edu) or Debbie Eads (deads@ua.edu) to initiate the process.

Appointment of Ph.D. or Thesis Committee form

Appointment of Plan II M.S. committee form (PDF)

Appointment of M.A. committee form (PDF)

Change of Adviser (PDF)

Handbook waiver form (PDF)

Appointment/Change of Doctoral Dissertation or Master's Thesis Committee:

The student will complete the Ph.D. or thesis committee form by going to graduate.ua.edu. Select the "Current Students" tab at the top of the page. Scroll down to the "Student Portal" block. This will take you to the login to submit the dissertation or thesis committee form.

Committee Acceptance Form (CAF) Instructions

PROCESSING AND SUBMISSION FOR SIGNATURES

General

The Graduate School now requires submission of all Committee Acceptance Forms (CAF) using UA's own online secure DocuSign System. This uses a combination of formal protocols and online systems to process and record all signatures via email.

This new submission process supersedes all previous notices and instructions regarding the processing of the CAF. ***If you have already submitted your form with your committee members' names and email addresses to the Graduate School under previous instructions, you do NOT need to resubmit again.***

Initiating the Form

The student should contact the department administering their degree and (1) notify them of the successful defense completion, (2) confirm the student's ETD has been submitted to the Graduate School, and (3) request the department to initiate a digital CAF.

Once the department has verified the above with the committee chair, the department administrator – not the student – will then log into myBama and click on Graduate Student forms – Docusign under the Employee tab. Select the Committee Acceptance form for Thesis (or Dissertation) and follow the steps to complete the form.

To initiate the form, the department will need:

- The student name and email address,
- Date of the defense,
- Degree level,
- Degree program,
- Manuscript title,
- The name and email address for each regular committee member,
- The name and email address of the committee chair, and
- The name and email address of EITHER the department chair OR the department Graduate Program Director, whichever is the usual signatory for the department.

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Timing

Once the student has successfully defended, completed the oral presentation and the document has been finalized and approved by the committee, the student may upload that document to the ETD administrative system (<http://services.graduate.ua.edu/etd/> – ProQuest Submission).

Do not submit the CAF for digital signing until after the successful completion of the oral presentation and defense and the ETD has been finalized with and approved by the committee.

Process

In summary:

- Student – Completes their oral defense, finalized the document with the committee, submits their ETD online, and sends a request to the degree administering department to initiate the digital signing of the CAF.
- Degree Awarding Department – Compiles the information to set up the CAF for signatures in the DocuSign process.
- Signatures – requests are sent to each person in the following order:
 - Student
 - Committee chair
 - External member(s)
 - Regular committee members
 - Department chair or Graduate Program Director as appropriate
 - Graduate School Registrar.
- Graduate School Registrar – Reviews and confirms committee has previously been appointed and approved by the Graduate School.
- Graduate School – Reviews the ETD submission, requests corrections as appropriate, accepts the final corrected ETD, and completes the CAF digital signoff.

Completion and Notices

Once the Graduate School Registrar's has noted that the committee is current, the department will be able to download and retain a PDF copy of the form once they have set it up and submitted it to the DocuSign system.

Once the Graduate School has completed its review of the ETD and accepted the final document the system will send an email confirmation to all parties who signed the form including the student and the department and committee signatories. Each party will be able to download a PDF copy of the final signed CAF.

EXAMINATION GUIDELINES

Ph.D. PROPOSAL-STYLE WRITTEN QUALIFYING EXAMINATION EXPANDED GUIDELINES

GENERAL INTRODUCTION

Each student must successfully complete a qualifying examination (both written and oral) administered by his or her Ph.D. Advisory Committee. The written examination can be either 1) a set of questions given and graded by each member of the student's committee, or 2) a proposal written using the strict guidelines given. It is understood that the student and his or her Ph.D. Advisory Committee will agree to the form of the written examination (i.e., whether it will be in the Option 1 [Traditional] format or the Option 2 [Proposal-based format]). The student's major advisor will have the final authority to determine the type of exam taken by the student.

This proposal-based examination is to be written in a style typical of an NSF or NIH grant proposal. Your Ph.D. Advisory Committee will assess the quality of your proposal as if you were submitting the proposal to such an agency. In general, the proposal-based examination consists of a document that demonstrates the following:

1. The ability to identify a substantive proposal topic
2. The ability to formulate valid and testable hypotheses
3. The ability to identify the importance of and justification for the proposed research, by preparing a comprehensive review of related research literature and presenting the proposed project in that context
4. The ability to prepare a sound research plan that includes both appropriate techniques and approaches suitable for the testing of the hypotheses and alternative strategies and hypotheses.

There will also be a comprehensive literature cited section. Proposals must conform to all stated guidelines, including page limits, to be acceptable for review.

Refer to procedures for the proposal-based Written Preliminary Exam. All students should discuss with their major advisor whether to take the proposal-based examination and how to determine the specific topic of the proposal, especially if students have a major advisor that spans both EES and MCB.

Because one of the primary goals of the Written Examination is to test the student's competence in their general area of study, a satisfactory performance requires that the student demonstrate a comprehensive and in-depth knowledge of the concepts and methodologies of the disciplines comprising the major area of research interest. The student will also be expected to demonstrate an authoritative and up-to-date grasp of the literature in their area of specialization and to be able to discuss in detail the experimental design, rationale, and methodology used in their proposed research program. Proposals will be returned without review if guidelines are not followed and/or if the writing (irrespective of content) is unacceptable.

A. GENERAL INSTRUCTIONS

1. Read and follow the instructions carefully to avoid delays and misunderstandings.

In preparing the proposal, use English and avoid jargon. For terms not universally known, define the term the first time it is used, with the appropriate abbreviation in parentheses; the abbreviation may be used thereafter. When using scientific names, add the common name in parentheses during the first mention.

Observe type size and format specifications throughout the proposal, or the document will be returned without review.

Prepare the proposal using uniform 2.5 cm margins at the top, bottom, and sides of each page. Use Times or Times New Roman 12-point font and single space line spacing in the main text of the proposal. Figures, charts, tables, figure legends, and footnotes may be smaller than 12-point font, but everything must be readily legible. Use black letters that can be clearly copied. Do **not** use photo reduction. You should prepare all graphs, diagrams, tables, and charts in black ink. However, if a figure would be significantly clearer if presented in color, you may do so. You should not use color simply to make the document look “pretty”.

2. Observe page limitations, or the proposal will be returned without review.

The proposal must not exceed 15 pages, including text plus all figures, charts, tables and diagrams. This page limitation does not include **Literature Cited** (see Specific Instructions in Section B).

3. Make the proposal easy to read and follow.

The proposal must be well written using proper English grammar, but it also must be well organized and presented in an easy-to-read manner. You should embed figures and tables within the document, next to the relevant section where they are first mentioned. Use bold, italics, boxes, etc. to highlight particular sections. Your submitted proposal should be written as if it will be submitted straight to NSF or NIH. Reviewers do not want to see a book report, and such proposals will be returned without review.

B. SPECIFIC INSTRUCTIONS *Sections of the Proposal*

For sections 1-4, do not exceed 15 pages. The face page, project summary, table of contents, and project description, tables, graphs, figures, diagrams, and charts must be included within the 15-page limit. Only the literature cited section (section 5) will not be included in the 15-page limit. **This page limit will be strictly enforced. Proposals that do not conform to the guidelines as outlined in this document will be returned without review, thus resulting in a failed written examination.**

1. Title Page

Include the following information:

Title of Project: Do not exceed 56 characters, including the spaces between words and punctuation. Choose a title that is specifically descriptive, rather than general.

Your Name

Date

List of Ph.D. Advisory Committee Members (indicate major advisor).

2. **Project Summary:** The proposal must contain a summary of the proposed activity not more than one page in length. It should not be an abstract of the proposal, but rather a self-contained description of the activity that will take place during the research period. The summary should be written in the third person and include a statement of objectives, methods to be employed, and the significance of the proposed activity to the advancement of knowledge. It should be informative to other persons working in the same or related fields and, insofar as possible, understandable to a scientifically or technically literate lay reader.

3. **Table of Contents:** Provide the page number for each category listed on the Table of Contents. Number pages *consecutively* at the bottom of each page throughout the application. Do not include unnumbered pages.

4. **Project Description (see Section C);** The Project Description should include sufficient information needed for evaluation of the project, independent of any other document. Be specific and informative; avoid redundancies. The main body of the proposal should be a clear statement of the work to be undertaken and should outline the general plan of work, including the broad design of research activities and adequate description of experimental methods and procedures. Organize items in the Project Description to answer these questions: (1) What do you intend to do? (2) Why is the work important? (3) How are you going to do the work?

5. **Literature Cited:** List all references. ***(This is the only section that can be of any length and that is not included in the 15-page limit.)*** Each reference must include the title, names of all authors, book or journal, volume number, page numbers, and year of publication. They should conform to a standard format. The references should be limited to relevant and current literature. While there is no page limitation in this particular section, it is important to be concise and to select only those literature references pertinent to the proposed research. You should pick key papers to the field and review articles. **NOTE:** You should read every paper that is cited in this section. It is not ethical to simply cite what other people have cited.

C. RECOMMENDED PAGE DISTRIBUTION FOR THE PROJECT DESCRIPTION

1. **Specific Aims:** List the broad, long-term objectives and what the proposed research is intended to accomplish. State the hypotheses and predictions to be tested. ***One page is recommended.***

2. **Background and Significance:** Briefly sketch the background leading to the present proposal, critically evaluate existing knowledge, and specifically identify the gaps that the project is intended to fill. State concisely the importance and scientific relevance of the research described in this application. Why and/or how will it lead to a significant advancement of the field? ***Three pages are recommended.***

3. Preliminary Studies/Data: Describe or present data of any preliminary studies that suggested models/hypotheses presented in the specific aims or that support the feasibility of the proposed experimental approach. A proposal must present research that is both significant and feasible. Present only those studies that are directly relevant to the rationale and/or design of the proposed research. Usually, you or your major advisor will have done these studies. ***Two to three pages are recommended.***

4. Research Design and Methods: Describe the research design and the procedures to be used to accomplish the specific aims of the project. Include how the data will be collected, analyzed, and interpreted. Describe any new methodology and its advantage over existing methodologies. Discuss the potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the specific aims. As part of this section, provide a tentative sequence or timetable for the project; this timetable should be no more than ½ a page. ***Five pages are recommended.***

NOTE:

Proper scientific writing is an extremely important part of science. Whether you become involved in teaching, academic or industrial research, or government policy, your job will include writing technical documents, proposals, and reports. The success of your career will depend not only on the creativity of your research, but also on your ability to communicate your ideas and results. The proposal-based Written Examination provides you the opportunity to work on your scientific writing and garner the help and suggestions of experienced faculty members. We look at this proposal-based option as an opportunity to help you grow and mature in your chosen field, and as an important step in ensuring your success as an investigator.

PH.D. WRITTEN EXAMINATION PROPOSAL-BASED TIPS

Summary: Browse examples of abstracts of funded proposals at NSF:

<http://www.nsf.gov/awardsearch/> or NIH: <https://projectreporter.nih.gov/reporter.cfm>

Specific Aims:

- Somewhat of a misnomer, since you DO NOT want just a specific list of experiments to perform.
- Need to convey critical scientific questions/rationale that prompt each set of experiments proposed.
- Often easily expressed as questions.
- Best if expressed as hypotheses to test.
- Following each scientific question/hypothesis, cite experiment(s) that will answer/test.
- Format as actual listing/outline.
- Numbering/lettering of individual aims and experimental strategies should correspond to the numbering/lettering of subdivisions in Project Description.
- Debatable point: For this section & throughout (except in Project Summary), first person writing is more readable than passive voice.

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Project Description:

- State explicitly what you plan to/will do.
- Avoid conditional phrases, such as “We could...” or “Another experiment that could be done...”
- For techniques that are not commonly performed, be sure to provide sufficient details to convince reviewers that you will be able to carry out the proposed experiments.
- Avoid proposing significant bodies of work that would require making or acquiring any specific reagent.
- For example, if your entire proposal depends upon having a specific antibody reagent, and your first step is to generate that antibody, your review committee will be skeptical of your likelihood of success.
- Be sure to present predicted outcomes of experiments, together with their interpretation relative to your specific aims.
- If alternative outcomes are possible, consider each and describe your subsequent experimental direction given either outcome.
- Be sure to consider the possibility of experimental failure/malfunction.
- Be realistic about what can be reasonably accomplished in the time proposed.

It is strongly recommended that each student discuss in detail the format requirements and expectations of his/her major advisor and committee members for the proposal.

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Student Services:

Graduate School – 348-5921 (graduate.ua.edu)

Academic Records – 348-2020 (registrar@ua.edu)

Student Account Services – 348-5350 (studentaccounts@fa.edu)

Financial Aid - 348-5921 (graduate.ua.edu)

Parking Services – 348-5471 (uapark@ua.edu)

Action Card – 348-2288 (actioncard@fa.ua.edu)