FOREWORD


**Graduate Committee**

**Department of Biology, 2017-2018**

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OBJECTIVES of the PROGRAM

The Graduate Program of the Biology Department endeavors to provide an academic atmosphere in which graduate students and faculty can work together as a community of scholars. Through the free exchange of information, it is our goal that each student will broaden their intellectual perspectives, prepare for a productive career, and realize their potential as an individual and as a responsible and informed member of society.

It is our intent to educate future biologists to be well-rounded scholars who exhibit proficiency in their chosen academic field. Graduate students in the Department of Biology should have a broad knowledge of basic concepts in biology, usually obtained through either an undergraduate degree in biology or an allied field. This foundation helps the student (1) promote self-motivated learning in a specialized field of biology, (2) understand the methods employed in biological investigation and, and (3) proceed toward making his/her own contribution to the scientific community.

Once a student has completed his/her graduate degree(s), he/she should possess an academic background adequate to enable the graduate to conduct research and teach courses in basic biology. With a broad-based competency, the student should be prepared for a successful career in a variety of biology-related fields.
PROGRAM of STUDY: DOCTOR of PHILOSOPHY DEGREE in BIOLOGY

The intent of the doctoral program is to develop our students into excellent scientists who have unique expertise in a subdiscipline of biology. This program involves an original research experience culminating in an approved dissertation. It is expected that the doctoral graduate will be properly equipped with the knowledge and training needed to independently conduct research and to teach introductory biology and advanced topics in his/her area of specialty.

Students will focus their studies within one of two degree tracks:

(1) Ecology, Evolution, and Organismal (EEO) biology or

(2) Cellular, Molecular, Health, and Disease (CMHD) biology

Program Objectives

1. Graduate students are expected to be proficient in core areas of biology, especially those relevant to their degree track and dissertation research. Students are expected to be proficient in at least 3 these core areas: cell and molecular biology, global health and disease, genetics, evolution, physiology, ecology, and evolution. We rely on the Preliminary Examination committee to determine core areas as fundamental to the student’s doctoral education.

2. Graduate students will demonstrate familiarity with the relevant literature, and expertise in experimental design, collection and analysis of data, and interpretation of results in subject areas pertinent to the student’s dissertation research.

3. Students will become self-sufficient, independent scientists as demonstrated by presentations at international scientific societies and publication of their research in reputable peer-reviewed, scientific journals

Assessment of Program Objectives

1. The written preliminary exam is administered to each doctoral student usually during the fourth semester of the student’s program (typically Spring of second year). Advanced students with M.S. degrees may petition to take the exam near the end of their first year, with the cohort of 2nd year students.

2. The dissertation proposal defense will be administered to each doctoral student after achievement of a passing score on the written preliminary exam, typically in the fourth or fifth semester. Students may defend their proposal prior to the written preliminary exam under unusual circumstances. These students typically would take the written exam in their 2nd semester.

3. The dissertation defense is the culmination of several years of course work and independent research. It serves as the student’s final exam. Students must complete a multi-chaptered dissertation (at least 3 chapters, each representing a peer-reviewed publication in a rigorous journal) and defend the research therein in public to their dissertation committee. Successful defense of proposed research is the final milestone and signifies maturation into
an independent, self-sufficient biologist worthy of the Doctor of Philosophy degree in Biology. Please refer to the TIMETABLE for DOCTOR OF PHILOSOPHY DEGREE in BIOLOGY near the end of this document for a detailed timetable of steps and required benchmarks during the program of study.

Course work

Required coursework is identical for EEO and CMHD students with one important exception: CMHD students must enroll in three (3) sections of BIO 6101 (Research Rotations) in their first semester, although all students are eligible to enroll in BIO 6101. Here is a summary of course work requirements for the Biology PhD:

1. A minimum of 78 semester hours is required for the Ph.D.

2. At least 36 of the 78 semester hours must consist of course work, excluding BIO 6V10, Dissertation Prospectus Research and BIO 6V99, Dissertation.

3. A minimum of 24 of the 36 hours of course work must be 5000-level or higher

4. The following courses are required:
   • Research Methods in Biology I (BIO 5201, 2 hours)
   • Research Methods in Biology II (BIO 5202, 2 hours)
   • Statistics (BIO 5412, 4 hours, or STA 5300, 3 hours)
   • Seminar (BIO 5100, BMS 5100; minimum of 4 hours).
   • CMHD students only: Research Rotations (BIO 6101, 3 hours/sections).

5. A maximum of 8 combined hours of BIO 5100 and BMS 5100 (or other approved seminars) may count toward degree requirements; repeat credit requires change in topic from previous registrations.

6. Not more than 12 hours of 4000-level course work may be applied to the 36 hours of course work. For 4000-level courses to apply toward the Ph.D., the courses must be listed in the Graduate Catalog and the student must do additional work beyond that required of undergraduates in that course. Not all 4000-level courses are eligible for graduate credit.

7. A maximum of 9 combined hours from 5V90/6101 can be applied the 36 hours of course work, and we discourage students from taking 5V90 hours when other 5000-level BIO courses are offered in any given semester. 5V90 is intended to be a focused, special problems course with a specific faculty member, and credits for that course must reflect structured course of study with a rubric for grading.

8. No coursework at the 1000, 2000, or 3000 levels will count toward the Ph.D. Further, Baylor will not provide tuition remission for courses that do not count toward graduate credit. You must pay for courses that are not graduate level and are not approved courses by your dissertation committee.

9. Dissertation Prospectus Research (BIO 6V10, not required, no minimum) and Dissertation (6V99, minimum of 12 hours) generally comprise the remaining 42 semester
hours, although a portion may be devoted to additional course and laboratory work at the discretion of the student’s advisory/dissertation committee.

10. Students who have successively passed the written preliminary exam can begin dissertation research by registering for BIO 6V10, Dissertation Prospectus Research during the transition period from the written exam to the proposal defense. The main purpose of BIO 6V10 is to allow students to focus heavily on completing the dissertation proposal without having to register for additional course work. BIO 6V10 and BIO 6V99 (Dissertation) are both considered full-time equivalent courses if registered for as few as 1 credit hour. Please see the Baylor Graduate School Catalog for more information about full-time status as it relates to course work and semester hours.

Transfer Credits
Students entering the program with graduate-level course work may petition to apply up to 24 semester hours of approved courses toward the Ph.D. Courses must be graduate-level at the preceding institution. If not, they are ineligible for transfer, even if Baylor has a similar course offered at graduate level. Students do not need to identify equivalent courses at Baylor to transfer graduate-level coursework, but equivalent courses may be petitioned so that students are exempt from required courses (e.g., intro biostatistics, BIO 5412 or STA 5300). Thesis hours (i.e., 5V99 or equivalent) are not transferable toward doctoral requirements.

Courses outside the Major Field
Appropriate courses from other departments may be taken upon approval of the dissertation committee. Relevant graduate courses in the departments of Geology, Statistics, Chemistry, Environmental Science, Human Health, Performance, and Recreation (HHPR) or other departments may be highly relevant to individual student’s program of study.

Residence Study
A minimum of 1 academic year of study must be undertaken in residence at Baylor.

Teaching
All doctoral students are required to fulfill a one-year teaching experience under the mentorship of a faculty member. This is satisfied by serving as a teaching assistant (TA) in laboratories of one or more undergraduate classes. Alternatively, this requirement may be satisfied by other college-level teaching experiences (e.g., instructor of record at community colleges or as a graduate student at a previous university). Students designated as instructor-of-record must complete the Teaching Assistant Preparation Program (TAPPS) offered through the Baylor Graduate School or a similar preparatory course on pedagogy. Participation in these teaching preparatory programs is added to the student’s permanent transcript.

Minimum Grade Requirements
All graduate students in Biology are expected to maintain a minimum GPA of 3.0 throughout their program. In accordance with Graduate School policy, any student whose Baylor graduate GPA falls below 3.0 will be placed on probation. The student must restore his/her
GPA to 3.0 by the end of the next 9 credit hours of coursework in order to remain in the graduate program. The student is not eligible to receive financial assistance from the University during the probationary semester(s).

Published work demonstrates a student’s capability of an active contribution to their academic discipline. The quality and quantity of peer-reviewed publications at the time of graduation will strongly influence the probability of a student receiving invitations to interview for jobs, particularly in academia. The peer-review process also provides an external review of the quality of the student’s research.

All publications submitted for this requirement will be founded on research and data collected while in residence in the Baylor University’s Department of Biology doctoral program. Prior to scheduling the dissertation defense, students must show evidence to the graduate program director of having authored a minimum of one original manuscript that has been published or accepted for publication in a peer-reviewed national or international journal.

Any manuscript developed based on research conducted as a part of the biology doctoral program at Baylor must first be edited and approved by your advisor, who should also be a co-author on the manuscript (except in very rare circumstances). Moreover, submission of any paper manuscript based on research conducted at Baylor must be approved by your advisor as well as any co-authors, such that your advisor and all co-authors are aware that the paper has been submitted and supported the decision to submit the paper to the selected journal. Failure to follow this procedure is unethical and may result in suspension or dismissal of a student from the program.

Publication Requirement

The publication used to fulfill this criterion must be based on his/her dissertation research. Students must be first author and may have secondary authors on this paper. Papers that are considered in press must be documented through communications with the journal’s editorial staff. Publication requirements may vary with faculty; therefore, students are strongly encouraged to discuss this early on in their program with their advisor.

Lab Research Rotations

Research Rotations (6101) is a critical part of the graduate school experience. Rotations assist students in their choice of research advisor, allow students to demonstrate research competence, and provide an opportunity for students to become acquainted with different research areas in the department. All first-year PhD students intending on concentrating in CMHD are expected to take and pass three rotations with three different CMHD faculty members during their first semester. One CMHD faculty member who is a secondary appointee may also serve as a rotation advisor. Most students will be matched with their dissertation lab after three rotations; a fourth rotation (during the first 5 weeks of the second semester, is optional, but discouraged, if additional lab exposure is necessary).
Each rotation lasts 5 weeks. The student will spend a minimum of 12 hours per week in the lab performing research mentored by the faculty member associated with each lab. Students should use this opportunity to find a good fit from the perspective of their interests as well as interaction with other students in the lab. Further, students should demonstrate to potential advisors their enthusiasm, responsibility, maturity, and initiative. Rotations are an important component in the process by which first-year students are evaluated and in determining your PhD advisor for thesis research.

Following acceptance to the graduate program, students should communicate individually with at least 4 faculty members to learn about possible rotation research projects and obtain permission to rotate in their lab. If agreed, each incoming student should then email the Graduate Program Director and Rotation Coordinator a list of four possible choices for rotations, ranked in order of preference, by noon, three weeks prior to the beginning of the Fall semester. The student will then receive confirmation of rotation assignments within a week after preferences have been submitted, and students will start their rotations at the beginning of the Fall semester.

Research Rotation Evaluations

The rotation advisor and the student will discuss the requirements and expectations at the beginning of the rotation to avoid any misunderstandings.

1. Some rotations may require more effort (biological systems do not always operate on a convenient schedule and often require attention on evenings or weekends). However, rotation students are not expected to be full-time laboratory personnel.
2. Students are expected to participate in an ongoing project in the rotation advisor’s laboratory, but are not expected to complete a research project resulting in a publication.
3. Progress is monitored by the rotation advisor (faculty teacher of record), rotation coordinator (individual who facilitates the matching of students and faculty for their rotations), and Graduate Program Director. The rotation advisor is responsible for reviewing materials submitted by the student and assigning a grade for their respective section number.
4. The rotation advisor evaluates the student's suitability as a member of their research group. This involves many factors, including:
   a. Research ability: creativity, intelligence, scientific intuition, independence, personality, and attention to detail.
   b. Reliability of the Student: Intellectual and personal integrity, conscientiousness
   c. Motivation: Student's motivation in academic and research pursuits
   d. Industry: Drive, initiative, work habits, productivity
   e. Communication Skills: Ability to write scientifically and deliver effective oral presentations
   f. Personal Interaction Skills: Ability to get along with other researchers and take part in a team effort
5. The Rotation Coordinator and/or Graduate Program Director will collect these evaluations.
Rotation Presentations

After each of the three required rotations, students present 20-minute rotation talks in which they briefly describe their rotation projects, including the background and goals underlying the project, any specific accomplishments achieved during the rotation period, and possible next steps. The students should submit a draft of their presentation to the rotation advisor one week before their talk is scheduled and invite the rotation advisor to attend once the student has been notified of their scheduled time slot (approximately one week in advance). These talks will be scheduled for lunchtime (or evening) meetings and attended by first-year graduate students, the rotation coordinator, and any interested faculty.

Individual labs also may have rotating graduate students present their results to other lab members in a group-meeting format. It is advisable to ask the rotation advisor for an opportunity to give the rotation talk in the lab group meeting format in advance, because this provides an opportunity to practice the presentation, to receive suggestions from lab members, and to make sure the talk stays within the allotted 20-minute time frame.

Student-Advisor Matching

The purpose of rotations is to provide in-lab experience for students to evaluate faculty labs and on-campus experience for faculty to evaluate students. No student should assume that completion of a rotation constitutes approval for joining a specific lab. However, students should approach rotation advisors, following completion of the rotation, to indicate their desire to either join the lab or decline from joining the lab so that mutually agreeable matches can be determined. Students and rotation advisors must notify the Graduate Program Director and Rotation Coordinator of the outcomes of these discussions to facilitate student-advisor matching. Please note that rotations are not a “race” to snare a PhD advisor. As such, final student-advisor matches will not be determined until the end of the third rotation. When a match with the top choice is not possible, the student will likely be matched with one of his or her alternative choices. If no agreeable match can be determined between student and any of the rotation advisors, the Graduate Program Director and Rotation Coordinator together will carry the responsibility of either finding an alternative match (possibly a 4th rotation) or recommending that the student be dismissed from the program. CMHD students who are matched with a PhD advisor with a primary appointment in a different department will still need to complete the Biology program requirements.

Role of the PhD Advisor and Preliminary Examination Committee

The PhD advisor will oversee the student's program of study and dissertation research. The student and the major advisor, with approval of the Graduate Program Director and Biology Graduate Committee, will appoint a dissertation committee consisting of at least three other members of the Biology graduate faculty (including secondary appointed Biology faculty from related departments) and one member of the Baylor graduate faculty from outside the Department of Biology. Note: the outside committee member also may have a secondary appointment in Biology, although one of the five members will need to be designated as “outside” and will not participate in the written preliminary exam.
This committee must be appointed no later than 4 weeks prior to the end summer (prior to the start of the Fall semester of their 2nd year), but may be appointed sooner. The Preliminary Examination committee will be responsible for guiding the student as they first prepare for the written preliminary exam and then for the dissertation proposal defense. The Preliminary Exam committee must be approved by the Graduate Program Director. The student’s Ph.D. advisor should submit the names of the committee members to the Graduate Program Director for approval no later than 4 weeks prior to the start of the Fall semester, 2nd year. Details about the written exam and proposal defense are presented in the upcoming sections of this document.

Preliminary Examination

The preliminary exam consists of two parts: 1) written comprehensive exam and 2) oral dissertation proposal defense. The preliminary exam marks the transition between the coursework and research phases of the studies of the Ph.D. student. It provides the student with the opportunity to demonstrate not only their knowledge of the topics of biology, but the ability to apply that knowledge in the way that is traditionally associated with the degree. The exam is meant not only to assess the student’s knowledge, but is typically detailed and open ended, allowing the committee to evaluate the ability of the student to apply their knowledge in different contexts.

Mechanics of the Written Exam (Preliminary Exam, Part I)

The exam will be composed of eight (8), two-hour examination sessions, conducted over a minimum of two days and normally administered in mid-to-late spring. The exam content will be student specific. Biology Preliminary Examination committee members will write two sets of two questions each (n=4 committee members, outside member excluded for the written exam). Questions will be focused heavily on both fundamentals and specifics related to the student’s area of study, particularly their anticipated dissertation research.

Students are expected to interact with their committee members several months prior to the written preliminary exam. Committee members are expected to help focus the student’s preparation to the specific areas they intend to test the student. It is not acceptable for committee members to expect students to know the content of entire textbooks (e.g., “know this book for the exam”), nor is it reasonable to assign readings that either are not relevant to the student’s research or unduly voluminous. It is reasonable and appropriate for faculty to define a relatively narrow range of topics for the student to master, with specific readings to support their mastery of the topic in preparation for the written exam. It is imperative for students to meet with their committee members as early as possible for guidance on their research and written preliminary exam topics.

Questions from each Preliminary Exam committee member should first be submitted to the student’s PhD advisor at least 4 weeks prior to the exam. The PhD advisor should then compile the questions and submit them to the Graduate Program Director at least 2 weeks prior to the exam for approval. The Biology Graduate Committee will organize the questions for each student so that one question will be distributed to that student during each of eight, 2-hour exam sessions. Again, the sets of questions answered by each student will be
unique to that student and will be written by their own respective PhD Examination Committee.

Students will be required to type their answers using word processing software on workstations in the Biology Computer Lab (A.305). Answers to questions will be saved to a USB drive and turned into the exam proctor at the end of each session. Answers will be distributed via email to faculty members for grade assignment. Graded answers will be returned to the Biology Graduate Committee directly within four weeks of the exam. Students must receive an average of at least 70% from each committee member. The Graduate Program Director will send exam results to students within six weeks after the exam. Students may view graded exams after notification of results.

Should a student fail one set of questions (i.e., pair of questions written by one of the four committee members), the student will be placed on immediate probation and must pass a comprehensive, remedial oral exam administered by the four committee members and under the supervision of either the Graduate Program Director or a member of the Biology Graduate Committee, if the Graduate Program Director is not available. The remedial oral exam must take place before the beginning of the student’s fifth semester (fall of the 3rd year) and must result in a unanimous recommendation to pass the student. If one or more faculty members vote to fail the student during the remedial oral exam, the student will automatically be dismissed from the Biology Ph.D. program but will be offered the option to complete any of the Biology Department’s master’s degrees. Dismissal from the Ph.D. program results in the loss of any tuition scholarships or Baylor-funded stipends (teaching assistantships). Thus, students who elect to complete a Biology master’s degree following dismissal from the Ph.D. program must fund their own tuition unless their advisor has an extramural grant that includes tuition remission and stipend support.

Should a student fail two or more sections of the written preliminary exam (i.e., pairs of questions written by two or more committee members), students will not have the option of taking the remedial oral exam but will be immediately dismissed from the Ph.D. program. However, these students will have the same option to complete any of the department’s master’s degrees, but must fund their own tuition and stipend unless their advisor has an extramural grant that includes tuition remission and stipend support.

Mechanics of the Proposal Defense (Preliminary Exam, Part II).

Students that pass the written exam are qualified to move on to the oral presentation and defense of their dissertation topic; although it is permitted that some students may complete the proposal defense and oral exam prior to the written exam (please consult with the Graduate Program Director). Students typically register for BIO 6V10 Dissertation Prospectus Research to prepare for dissertation research proposal and the oral exam, although students may register for 6V10 prior to passing the written exam if all other coursework is complete. One semester hour of BIO 6V10 is considered full-time equivalent (FTE), but students may wish to register for 1-2 hours per semester to count toward the required 78 for graduation. Note that BIO 6V10 will not count toward degree requirements until all coursework is complete.

Once the student has completed a draft proposal document, a digital (e.g., MS Word or PDF) copy will be distributed to all dissertation committee members a minimum of 2 weeks before the proposal defense. Students and Preliminary Exam committee members (now including the “outside” committee member, n=5) should discuss and determine the schedule for
It is strongly recommended that the proposal be structured similarly to research grant proposals, and should include the following key topics:

1. Hypotheses to be tested and/or, research objectives or specific aims derived from your research hypothesis
2. Description of the key background information and preliminary results that serve as the basis for the hypotheses,
3. Designs of experiments to test the hypotheses, accomplish specific aims or objective, and a discussion of possible outcomes and interpretation of those outcomes.
4. A rationale for each experimental approach, possible problems, or alternative plans for the proposed research.
5. A timetable for completion.
6. Titles of manuscripts and expected journals in which to publish research from the dissertation.

During the proposal defense, the student is expected to present a prepared short summary of the significance and rationale of the proposed experiments and anticipated outcomes (~30-45 minutes). This part of the defense is public, and members of the Biology faculty and student body may ask questions following the presentation. The presentation is followed by a private, closed-door session directed by the Preliminary Examination committee concerning such issues as the proposed research, alternative hypotheses, and projected outcomes. The Ph.D. advisor is considered ex officio of the committee during the proposal defense and is prohibited from voting or attempting to influence the vote of other committee members. The Ph.D. advisor may ask questions, but is prohibited from helping the student answer questions or interrupting committee members. Committee members are expected to report deviations from these protocols to the Graduate Program Director and/or Department Chair. Advisors found to have interfered with the student’s proposal defense will result in a formal reprimand from the Department Chair and Graduate Program Director and may result in a probationary period when the faculty member will not be permitted to support new students on Department assistantships.

The four voting members of the proposal defense committee (all members excluding the Ph.D. advisor) will submit their vote directly to the Graduate Program Director; their vote will remain anonymous if desired. Should a student receive unanimously passing votes, the student will advance to Ph.D. candidacy status and receive a $1,000 increase in their stipend (if funded by a Biology Graduate Assistantship).

Should a student receive one failing but three passing votes, the student must significantly revise their proposal in accordance with their committee recommendations and perform a second, closed-door defense of the proposal before the end of the following semester (spring
if taken in the fall, summer if taken in the spring). A unanimous vote to pass the student is required; otherwise, the student is dismissed from the Ph.D. program and will be offered the option of completing any of the department’s master’s degrees at their own expense (loss of stipend, tuition) unless supported by extramural funding that includes tuition remission and stipend support.

Students who receive 2 or more failing votes will be dismissed from the Ph.D. program without the opportunity to revise and re-defend their proposal. Students will be offered the option of completing any of the department’s master’s degrees at their own expense (loss of stipend, tuition) unless supported by extramural funding that includes tuition remission and stipend support.

**Dissertation Defense (Final Examination)**

After completion of doctoral dissertation research, the candidate has a final oral examination involving presentation and defense of their dissertation. An invitation to all members of the Biology faculty and graduate students should include the examination date, time, and place at least 2 weeks prior to the examination. The Examination Committee conducts the examination, with the Ph.D. advisor serving as a non-voting member. The public presentation should last approximately 45 minutes, with up to 15 minutes for questions from the audience. The remaining two hours are dedicated to a closed-door, dissertation defense between the Ph.D. candidate and the committee. The dissertation defense may not last longer than three hours, including the public presentation. At the end of the dissertation defense, each individual dissertation committee, excluding the Ph.D. advisor, will assign a grade of "pass" or "fail". A passing vote from 3 of 4 committee members, excluding the Ph.D. advisor, is required to pass the dissertation defense.

Should a student fail the dissertation defense, the student will be allowed to significantly revise the dissertation in response to the committee recommendations and defend the dissertation a second time in a closed-door meeting with the committee within 6 months of the original defense. Failure to pass the second defense results in termination from the Ph.D. program with the option of completing one the department’s master’s degree programs at the student’s own expense.

**Scheduling of Dissertation Defense**

1. In consultation with the dissertation committee, the student arranges the date and location of the examination. The student *must* submit the *Announcement of Doctoral Oral Exam* form to the Graduate School at least 10 working days before the event. *Failure to do this could result in a nullification of the defense and a rescheduling of the event!*

2. The candidate also posts a printed copy of the *Announcement of Doctoral Oral Examination* form in the Biology Office. The candidate is responsible for adhering to the official deadlines of the Graduate School and the departmental calendar for that particular semester. See the *calendar* posted on the Graduate School website.

3. All exams must be held on regular class days between the first and last days of class (inclusive) of the semester. No exams may be scheduled on final-exam days or on “study days” or during interims between semesters. *This rule is strictly enforced by the Graduate School.*
4. All oral exams must be scheduled between 8:00 AM and 5:00 PM such that at least 3 hours are available for the public presentation and closed-door defense with the dissertation committee.

Please refer to the TIMETABLE for the DOCTOR OF PHILOSOPHY IN BIOLOGY near the end of this document for a succinct summary of the prescribed program of study and related deadlines.
MASTER’S PROGRAMS

The Department of Biology has two degree programs in which the large majority of our master's students are enrolled: (1) Master of Science in Biology and (2) Master of Arts, Health Profession. Three additional degrees, Master of Science in Environmental Biology, Master of Science in Limnology, Master of Arts in Biology (general) are older degrees that remain in the Graduate Catalog but enroll relatively few students.

PROGRAM of STUDY: MASTER of SCIENCE in BIOLOGY

The primary purpose of the M.S. degree in Biology is to develop in the student an area of biological expertise. This degree can be pursued in either of two emphases: (1) Ecology, Evolution, and Organismal biology (EEO) or (2) molecular, cellular, and developmental biology (CMHD). Such expertise is developed through coursework and an in-depth research experience that culminates in a thesis.

Secondarily, the student is expected to continue development of his/her knowledge in major areas of biology. In addition, candidates are expected to be familiar with research methods in biology and be capable of reading and interpreting original research in their fields of emphasis. Because students are admitted to this program under the expectation of conducting research in pursuit of a thesis, students are not allowed to switch to a non-thesis degree program (i.e. MA) except under extreme conditions that must be approved by a majority vote of the Graduate Committee.

Program Objectives

1. Master’s-level proficiency is expected in one of the two concentrations of biology in which the M.S.-Biology is offered: (1) Ecology, Evolution, and Organismal biology (EEO) or (2) molecular, cellular, and developmental biology (CMHD). Additionally, all M.S. Biology students must demonstrate proficiency in understanding of evolutionary history and processes.

2. Students will demonstrate familiarity with the relevant literature, and expertise in experimental design, in collection and analysis of data, and in interpretation of results in subject areas pertinent to the student’s thesis research.

3. Students will progress toward entry into the scientific community through participation in professional activities, such as attendance at professional conferences, publication of research findings, etc.

Assessment of Program Objectives

1. Admission to master’s candidacy requires preparation and defense of a thesis proposal. The student must schedule a meeting with the M.S. committee to discuss and defend the proposed research. An oral presentation of the proposed research is not required, but can be used if the major advisor requests it. The outside member, often called an “outside reader” in other departments, is not required to attend this meeting, but should be invited and can be as involved as other members of the committee if they wish. The committee will scrutinize the proposal and ask questions about the relevant scientific literature,
experimental design, collection and analysis of data, and interpretation of results. This proposal must be approved by the thesis committee before the candidate may register for Thesis, BIO 5V99. However, preliminary research conducted prior to the proposal defense, such as method development or pilot studies, may be included in the proposal and, in many cases, is strongly encouraged.

2. M.S.-Biology students sit for an oral examination and thesis defense toward the end of the final semester of studies (semester 4 or 5; see Appendix of Forms, last page of this document). Approximately half of the examination evaluates knowledge in evolution and the two areas comprising the concentration (EEO or CMHD). The other half of the examination pertains directly to the research thesis.

Coursework and Research

1. A minimum of 30 semester hours, including at least 24 hours of coursework (the remaining 6 hours must be thesis research, BIO 5V99).

   These 24 hours must include:

   - Research Methods in Biology I (BIO 5201, 2 hours),
   - Research Methods in Biology II (BIO 5202, 2 hours)
   - Biometrics (BIO 5412, 4 hours) or other approved statistics course (e.g., STA 5300, 3 hours).

2. Up to 4 hours of Seminars in Biology (BIO 5100) and/or Seminars in Biomedical Sciences (BMS 5100) may be applied to the 24 hours of coursework. Repeat credit requires change in topic from previous registrations.

3. Not more than 6 hours of Special Problems in Biology (BIO 5V90) may be applied toward the 24 hours of coursework.

4. Six of the 30 semester hours must be thesis research (BIO 5V99) leading to an approved thesis.

5. At least 12 hours of this coursework must be at the 5000 level. No more than 12 hours may be taken at the 4000 level, and 4000 level courses MUST be listed in the Baylor University Graduate Catalog (i.e., not all 4000 level courses are eligible for graduate credit).

Advisor and Thesis Committee

Students should choose a graduate program largely for the purpose of studying with a particular professor. This professor is the research director (advisor). All students should have identified a faculty advisor during the application process prior to enrolling at Baylor. This professor advises not only in research, but also on the course of study, university and departmental policies, etc.

The advisor and the Graduate Program Director in consultation with the student will select a thesis committee before the research is begun. The committee consists minimally of three professors (including the advisor), two of whom are members of the Biology Department faculty (including secondary appointed faculty from other departments) and the third from a department other than Biology (also can be a secondary appointment in Biology, but one
must be designated as the “outside” member). Additional faculty may be included on the committee. The committee is involved in the development of the research plan, although the outside member may play a lesser role.

**Thesis Proposal**

By the end of the second semester, a thesis research proposal should be developed, presented to and approved by the thesis committee. A copy of the proposal and the Thesis Proposal Approval form (Appendix) must be signed by the committee members and submitted to the Graduate Program Director. Only those students who have submitted a signed copy of the approved thesis proposal to the Graduate Program Director may register for thesis research (BIO 5V99).

The research proposal demonstrates to all involved that the student is acquainted with the literature relevant to the research problem. It demonstrates that the student understands how to apply the scientific method to this problem. It assures that the experimental design or research protocol involves the methods, materials, sample sizes, and statistical tests appropriate to the question. Basically, it ensures that the student knows what is to be done before the student proceeds. At the committee-student meeting, the above points should be addressed and discussed prior to approval of the proposal.

**Preparation of the Thesis**

A thesis summarizing the student's original research is required for the Master of Science degree. The thesis should be prepared following the *CBE Style Manual: A Guide for Authors, Editors, and Publishers in the Biological Sciences*, 6th Edition, published by the Council of Biological Editors. In addition, the physical format of the thesis must be consistent with the guidelines set by the Graduate School.

**Submission and Review of Thesis**

The thesis is written as collaboration between the student and the advisor. An important part of the education and experience involved in the Master of Science degree is the production of a document explaining and describing the student's publishable, original research. Development of the thesis will be a lengthy process typically requiring multiple revisions prior to submission to the committee. The student is expected to submit drafts to his/her advisor according to an agreed-upon schedule. Once the thesis reaches an advanced stage, the other members of the student's committee become involved. Changes required or requested by the committee members will be made prior to approval of the thesis.

Once the committee conditionally approves the thesis, the student can then schedule a thesis defense. The candidate should expect to make reasonable changes based on faculty comments made before and during the comprehensive oral examination; inclusion of such changes will be up to the major professor and the student. The appropriately revised thesis is then submitted to the thesis clerk in the Graduate School. It is the student's responsibility to be certain of deadline dates, pay the required fees, and meet all other Graduate School rules. See the calendar posted on the Graduate School website.
Final Comprehensive Oral Exam

During the last semester and after writing a satisfactory thesis that has been approved by the thesis committee, M.S. candidates must take the comprehensive examination.

Description of Exam

Each master’s student must present an exit seminar to the Biology Department (faculty and students). Typically, the seminar is presented during the hour immediately preceding the final oral exam. The duration of the seminar is approximately 45 minutes.

Approximately half of the examination evaluates knowledge in evolution and the two areas comprising the concentration (EEO or CMHD). The other half of the examination pertains directly to the research thesis.

Scheduling of Oral Exam

1. In consultation with the thesis director and committee, the student arranges the date and location of the examination with the Graduate Program Director and secures approval from the Dean of the Graduate School; submit the Announcement of Master’s Oral Exam form to the Graduate School at least 10 working days before the event. This form can be downloaded from the Graduate School website.

2. The candidate also posts the Announcement of Oral Examination form in the Biology office. For thesis degrees, the examination may not be taken sooner than 1 week (5 working days) after submission of the committee-approved thesis to the Biology Department. The candidate is responsible for adhering to the official deadlines of the Graduate School and the departmental calendar for that particular semester.

3. All oral exams must be held on regular class days between the first and last days of class (inclusive) of the semester. No exams may be scheduled on final-exam days or on “study days” or during interims between semesters.

4. All oral exams must be scheduled between 8:00 AM and 5:00 PM such that at least 2 hours are available for the exam (excluding the preceding seminar).

Examination Committee

1. Attendance at the seminar presented prior to the oral examination is open to the public, but the oral exam following the seminar is limited to the student’s graduate committee only.

2. If a member of the Examination Committee cannot be present, the other members of the Examination Committee (in consultation with the Graduate Program Director, if possible) shall appoint a replacement for the absent member. At least two members of the original Advisory Committee, including the Thesis Director, must be present.

3. Members of the Examination Committee and others participating in the examination of a M.S. candidate should read the thesis thoroughly prior to the examination.
Voting

1. All members of the Examination Committee shall vote on the proficiency of the candidate. Faculty members who participated in the exam, but who are not official members of the Examination Committee, are invited to discuss the candidate's performance, but are not eligible to vote.

2. A two-thirds affirmative vote is required for passing.

3. If a candidate fails the oral examination, the Examination Committee will discuss with the candidate the basis for the decision. The student may be granted an opportunity to retake the exam within 6 months. A second failure results in dismissal of the student from the program.
PROGRAM of STUDY: MASTER of ARTS DEGREE in BIOLOGY – HEALTH PROFESSION

The purpose of the M.A. degree in Biology, Health Profession (MA-HP) is to provide students with advanced education in the life sciences for students in which non-thesis option is best for their career options. Students transitioning to a doctoral health-related graduate program are to benefit from this program that boosts their knowledge and skills related to medicine and human biology. This program is specifically designed for students who want to complete this degree within a year in anticipation of entering medical/dental schools the following year. **Thus, students admitted to the program must begin studies during the first summer session and complete their studies in time for graduation the following May.**

The student will take several advanced courses in this field, will conduct an independent research project, and will present a research seminar on a topic within this field of emphasis.

Candidates for the MA-HP are expected to have general knowledge of all major areas of biology. They are expected to demonstrate more-advanced knowledge in their field of emphasis. In addition, candidates are expected to be familiar with research methods in biology and be capable of reading and interpreting original research in their field of emphasis.

**Assessment of Objectives**

MA-HP students sit for an *exit examination* toward the end of the final semester of studies. The exit exam begins with a 30-45 minute public presentation of the student's laboratory project. Following the presentation and questions from the audience, only members of the examination committee remain the room. Approximately half of the examination evaluates knowledge areas comprising the health profession concentration (Cell Foundation, Genetics, and Disease Etiology and Human Response). The other half of the examination pertains directly to their research experience.

**Coursework**

1. A minimum of 30 semester hours of coursework. These 30 hours must include Research Methods in Biology I (BIO 5201; 2 hours), Research Methods in Biology II (5202; 2 hours), and Biometrics (BIO 5412) or another approved statistics course (e.g., STA 5300). At least 12 hours of this coursework must be at the 5000 level. **No more than 12 hours may be taken at the 4000 level, and 4000 level courses MUST be listed in the Baylor University Graduate Catalog** (i.e., not all 4000 level courses are eligible for graduate credit).

An important feature to the MA-HP program is the core areas that are consistent with a general biology degree and pre-health training that is important to the future of medical education. These core areas include: Cellular Foundation (CF), Genetics (G), and Disease Etiology and Human Response (DE/HR). Students will take at least one course from each of these areas as they complete the coursework requirement for the degree: Students should consult the Graduate Catalog to determine whether courses are valid for graduate credit.

4104 Medical Entomology Laboratory (DE/HR)
4106 Molecular Genetics Laboratory (G)
4107 Laboratory Studies in Cell Physiology (CF)
4108 Cell and Developmental Biology Laboratory (CF)
4123 Laboratory for Parasitology (DE/HR)
4301 Immunology (DE/HR)
4303 Molecular and Medical Biotechnology (DE/HR)
4304 Medical Entomology (DE/HR)
4306 Molecular Genetics (G)
4307 Physiology and Biochemistry of the Cell (CF)
4308 Cell and Developmental Biology (CF)
4310 Biogeography (Elective)
4320 Pathophysiology (DE/HR)
4323 Parasitology (DE/HR)
4344 Fundamentals of Toxicology (Elective)
4330 Behavioral Genetics (G)
4350 Pathogenic Microbiology (DE/HR)
4352 Evolutionary Developmental Genetics (G)
4354 Neglected Tropical Diseases (DE/HR)
4366 Foundations of Evolutionary Biology (G)
4370 Biological Principles and Clinical Decision-Making (DE/HR)
4401 General Bacteriology (DE/HR)
4402 Transmission Electron Microscopy (Elective)
4403 Scanning Electron Microscopy (Elective)
4405 Limnology (Elective)
4406 Aquatic Biology (Elective)
4414 Taxonomy of Flowering Plants (Elective)
4416 Plant anatomy (Elective)
4417 Plant physiology (Elective)
4422 Ichthyology (Elective)
4426 Vertebrate Histology (CF)
5100 Seminars in Biology (Required)
5201 Research Methods in Biology I (Required)
5202 Research Methods in Biology II (Required)
5300 Advanced Biotechnology (Elective)
5302 Virology (DE/HR)
5303 Behavioral Ecology (DE/HR)
5306 Molecular Evolution (G)
5307 Advanced Cell Biology (CF)
5310 Advanced Microbiology (DE/HR)
5311 Advanced Genetics Analysis (G)
5320 Ecological Biophysics (Elective)
5325 Advanced topics in Evolutionary Biology (Elective)
5380 Integrative Ecophysiology (Elective)
5399 Experimental Design and Research Communications for Molecular Biologists ( Elective)
5400 Population Genetics (G)
5401 Microbial Ecology (DE/HR)
5404 Wetland Ecology and Management (Elective)
5409 Cancer Biology (CF)
5412 Biometrics (Required, or STA 5300)
5425 Molecular Ecology (G)
2. Up to 4 hours of Seminars in Biology (BIO 5100) and/or Seminars in Biomedical Sciences (BMS 5100) may be applied toward the 30 hours of coursework. Repeat credit requires change in topic from previous registrations.

4. Six hours of Special Problems in Biology (BIO 5V90) must be applied toward the 30 hours of coursework. Additional hours of BIO 5V90 beyond the 6-hour requirement will not count toward the degree.

Advisor and Exit Exam Committee

In consultation with the MA-HP program coordinator (Dr. Myeongwoo Lee; Myeongwoo_Lee@Baylor.edu), the student should select an advisor from among the MA-HP core faculty (consult with Dr. Lee for more information about MA-HP core faculty) no later than early in the fall semester, preferably in summer when they first arrive. The selected advisor should serve as the director of the student's independent research project (BIO 5V90) and exit seminar. Thus, students should approach faculty who are conducting research of interest to them prior to selecting an advisor. The advisor also will help the student select appropriate courses in accordance with the MA-HP essential core.

During the fall or no later than early spring semester of study, the student will select an advisory committee, consisting of the advisor, at least one additional Graduate Faculty member from the Department of Biology, and one representative from graduate faculty outside the Department of Biology. The committee will administer the exit examination, which follows the student's research seminar near the end of the last semester.

Exit Seminar

Each MA-HP student must present a seminar to the Biology Department (faculty and students). The topic of the seminar must relate to a research project conducted under Special Problems (BIO 5V90) registration involving laboratory or literature research under the guidance of the student's advisor (MA-HP core faculty, in most cases).

The seminar is presented prior to the exit examination. The seminar should be approved by the advisor, exit exam committee, and graduate school at least 10 days prior to the event. Students should provide a 1-page synopsis or abstract of their research to the advisor and exit exam committee prior to the seminar. The seminar is a public event; students are encouraged to invite friends, family and peers. The seminar is almost exclusively presented during the hour immediately preceding the exit exam. The duration of the seminar is usually 30-45 minutes, followed questions from the audience, which may include questions from the exit exam committee.

Scheduling of Exit Seminar and Exam

1. In consultation with the MA-HP advisor and exit exam committee, the student arranges the date and location of the examination and secures approval from the Graduate Program Director and Dean of the Graduate School; submit the Announcement of Master's Oral Exam form to the Graduate School at least 10 working days before the event.
2. The candidate also posts the *Announcement of Oral Examination* form in the Biology office. For thesis degrees, the examination may not be taken sooner than 1 week (5 working days) after submission of the committee-approved thesis to the Biology Department. The candidate is responsible for adhering to the official deadlines of the Graduate School and the departmental calendar for that particular semester. See the [calendar](#) posted on the Graduate School website:

3. All oral exams must be held on regular class days between the first and last days of class (inclusive) of the semester. **No exams may be scheduled on final exam days or on “study days” or during interims between semesters.**

4. All oral exams must be scheduled between 8:00 AM and 5:00 PM such that at least 2 hours are available for the exam (excluding the preceding seminar).

**Voting**

1. All members of the Examination Committee shall vote on the proficiency of the candidate. Faculty members who participated in the exam, but who are not official members of the Examination Committee, are invited to discuss the candidate's performance, but are not eligible to vote.

2. A two-thirds affirmative vote is required for passing.

3. If a candidate fails the oral examination, the Examination Committee will discuss with the candidate the basis for the decision. The student may be granted an opportunity to retake the exam within 6 months. A second failure results in dismissal of the student from the program.
PROGRAM of STUDY: MASTER of SCIENCE in ENVIRONMENTAL BIOLOGY

The Master of Science in Environmental Biology is a specialized degree for students who wish to receive advanced education in environmental aspects of biology. The degree is administered through the Department of Biology, but the student takes coursework in Biology and in Environmental Science and, as appropriate for a particular student, in other appropriate supporting fields. Additionally, at least one member of the advisory and examination committees must be from the Department of Environmental Science. Refer to the section "Program of Study for the Master of Science in Biology" for information regarding assessment of program objectives, advisory committee, thesis proposal, and preparation and submission of thesis.

Program Objectives
1. Students will develop master's-level knowledge and expertise in ecological and environmental aspects of biology.

2. Students will demonstrate familiarity with the relevant literature, and expertise in experimental design, in collection and analysis of data, and in interpretation of results in subject areas pertinent to the student’s thesis research.

3. Students will progress toward entry into the scientific community through participation in professional activities, such as attendance at professional conferences, grantsmanship, publication of research findings, etc.

Coursework and Research

Coursework requirements for the M.S. in Environmental Biology are identical to the M.S. degree in Biology, except:

- Six of the 30 semester hours must be selected from 4000-5000 level courses in Environmental Science. Note that several BIO courses are cross-listed as ENV courses. These courses may be used to satisfy the 6 hours of ENV requirement.
The Master of Science in Limnology is a specialized degree for students who wish to receive advanced education in limnology. Because many students bring diverse undergraduate backgrounds (including biology, other sciences, math, engineering) to this program, a bachelor's degree in biology is not required for admission. As limnology is a field comprising not only biological, but also physical, chemical, geological, and other subdisciplines, each student's curriculum will be designed to match the student's background and career orientation. Hence, it is inappropriate to expect M.S.-Limnology students to develop the same biological background as required for students in the other master's programs in Biology. Refer to the section "Program of Study for the Master of Science in Biology" for information regarding assessment of program objectives, advisory committee, thesis proposal, and preparation and submission of thesis.

**Program Objectives**

1. The M.S.-Limnology student is expected to develop master’s-level knowledge and expertise in limnology and aquatic biology

2. Students will demonstrate familiarity with the relevant literature, and expertise in experimental design, in collection and analysis of data, and in interpretation of results in subject areas pertinent to the student’s thesis research.

3. Students will progress toward entry into the scientific community through participation in professional activities, such as attendance at professional conferences, grantsmanship, publication of research findings, etc.

**Coursework and Research**

Coursework requirements for the M.S. in Limnology are identical to the M.S. degree in Biology.
General Regulations and Policies

1. All courses taken by the student must be approved by the student's major professor in consultation with the Graduate Program Director. Suitability of courses for credit in the student's program depends on the level of the course (i.e., 4000-level vs. non-4000 level undergraduate courses, undergraduate vs. graduate level) and its relevance to the student's program. The Graduate Program Director, in consultation with the student's major professor, may decline to use tuition remission funds to pay for courses that are not so approved. Additionally, courses not related closely to the objectives of the Biology graduate program also may not be approved for credit toward the graduate degree.

2. Required or other core courses (Research Methods, Professional Skills, Statistics) should be taken during the first year of study.

3. When selecting courses for next semester or when adjusting your schedule for the current semester, be sure to consult with your thesis/dissertation advisor. The Graduate Program Director is another valuable resource in matters related to course selection, registration, etc. Upon completion of registration and any subsequent schedule changes, the student must provide a copy of the printed class schedule to the Graduate Program Director. This copy of your official class schedule is essential for the Graduate Program Director to allocate appropriate tuition scholarship funds to you.

4. The graduate student is expected to maintain a minimum graduate GPA of 3.0 (B) throughout his/her program. Any student failing to maintain this average will be placed on probation; notification of such is by letter from the Graduate Dean. The graduate GPA must be restored to 3.0 during the next 9 hours of coursework in order to remain in the graduate program and regain non-probationary status. The student may not receive financial support (i.e., graduate assistantship or tuition scholarship) from the University while on probation.

5. Continuous enrollment during a graduate career is not required, though enrollment is required during any semester when the student is taking courses or is in residence (i.e., using university facilities and faculty resources) for the purpose of conducting research or writing. Enrollment is required during the semester of graduation. During a semester when a student is not enrolled, he/she is not eligible for a teaching or research stipend or for tuition remission. Additionally, a student may not maintain an office in the Biology Department during a semester when he/she is not enrolled.

6. Computing resources are generally available in various student labs across campus. The Biology Department supports graduate-student computer needs by equipping faculty research labs with computers. Graduate students are generally granted access to computers in the labs of their major professor. Biology maintains a computer teaching lab (BSB A.305) that may be accessed by students when courses are not in session upon request.

7. The Biology Office (BSB B.207) is open and available to graduate students from 8:00 AM until 5:00 PM on business days. Access to the Biology Office is not authorized at other times.
8. Graduate students are allowed to conduct limited photocopying on the machine in the Biology Office. These privileges pertain primarily to copying associated with graduate assistantship duties. Where possible, use reprint cards or email to request research articles from authors. Reprint cards are available free from the Biology Office and the department will pay the postage for these.

9. Several vehicles are operated by the Biology Department to serve teaching and research needs and other purposes of official business. These may be checked out through the departmental office, after proper registration as driver with the department and university (forms available in Biology Office). Posted rules for vehicle use are to be followed by all drivers. Consult with Dr. Baldridge with questions concerning vehicle-use policy.

10. Use of departmental letterhead is restricted to purposes of official university business, such as corresponding with researchers at other institutions, applying for grant support, applying for admission into other academic programs, etc. No one is authorized to use departmental letterhead for making political statements or statements of position; these could be misconstrued as University policy. No student is authorized to use departmental letterhead to request complimentary copies of textbooks; professors may assist in obtaining these.

11. Use of postage, like other departmental resources, is restricted to official University business. The major advisor is always a good source of advice and information on this and many other matters.

12. Each graduate student is assigned a mail slot in the Biology Department office (B.207). This mail slot is one of the places where memoranda, phone messages, and other official and important communications will be placed. It is important to check your mail slot at least once each business day. Failing to check the slot at least once daily may well result in missing an opportunity, such as stipend or tuition support, a seminar announced at the last minute, etc.

13. Each graduate student will have an official (i.e., first.last@baylor.edu) electronic mail account. This has become the predominant means of official communication between the Graduate Program Director and graduate students. You will need to check your e-mail account several times daily.

14. Graduate students are expected to attend regularly scheduled departmental seminars. No matter what the topic or how well the seminar is presented, you will surely learn something of value by participating. Please view these seminars as part of your graduate educational experience.
Financial Support

Application for Graduate Assistantships
A student who is admitted to regular membership in the Biology graduate program may apply for a graduate assistantship by so notifying, in writing, the Graduate Program Director. Generally, teaching assistantships are the only type of graduate assistantships through the departmental graduate budget. Assistantships are awarded to qualified applicants with preference given to those students working toward the Ph.D. degree, although many additional criteria (e.g., GPA, GRE scores, meaningful progress toward the degree) are considered. M.S. students may be supported if funds remain after doctoral students are funded. Nevertheless, early application is desirable as more students may be accepted than there are funds available to support.

Stipend and Tuition Remission
1. Award of stipend support after the first year in the program will be contingent on quality of work performance and on progress made toward the chosen degree. Funding for doctoral students is potentially available for up to 5 years. However, doctoral students and their mentors should strive to obtain external funds for research assistantships for the student’s third and subsequent years. Funding for M.S. students is limited and only guaranteed for the amount of time specified in the acceptance letter, if any at all.

2. Generally, a maximum of 18 - 20 semester hours of tuition scholarship will be allowed per 12-month academic year (Summer through Spring semesters). Award of tuition scholarships after the first year in the program will be contingent on progress made toward the chosen degree. After a student has earned the minimum number of hours required to satisfy degree requirements, generally no further tuition scholarships will be provided.
Assignment of Graduate-Student Teaching Duties

The intent of assignment of graduate student teaching duties is to provide a strong educational experience for undergraduate students in the supported courses, as well as to provide on-the-job education (in both content and pedagogy) for the teaching assistants. Undergraduate courses with large enrollments generally receive highest priority in staffing with graduate assistants. When possible, graduate assistants will be assigned to courses in which they have prior academic education. Preferences of faculty and graduate students for particular students and courses will be honored when it is feasible.

Responsibilities of Graduate Assistants

1. In accepting the appointment as a graduate assistant in the Biology Department, the student becomes an integral part of the department’s instructional personnel. As such, he/she is obligated to support the standards and policies of the department and the University. Student attitude, appearance, and conduct are expected to be of the highest professional level. Inappropriate behavior, including fraternizing with students, failure to follow directions specified by the Laboratory Coordinator or Instructor, tardiness, violating laboratory safety regulations (e.g., food or beverages in the lab, etc.), and disrespectful behavior to students, staff, or faculty, will be treated very seriously by the Graduate Program Director and Department Chair. Depending upon the severity of the offense, the student will be issued a formal reprimand or be removed from as teaching assistant for one semester. Repeat offenses will result in dismissal from the program.

2. Approximately 15 clock-hours of work per week are required for the full assistantship. This may include required lecture attendance and prep sessions, and grading. If a teaching assignment does not require 15 hours, the graduate assistant will devote the remaining hours to support of his/her major professor's research program.

3. The responsibilities of the graduate assistant may include:

   a. Assuming the responsibility, under the direction of the responsible faculty member, for the highest quality laboratory experience for the student.

   b. Supervising of undergraduate assistants.

   c. Meeting weekly planning and education sessions with the responsible faculty member and undergraduate assistants.

   d. Assuming responsibility for having all necessary equipment and supplies in place prior to the laboratory period and for cleaning the laboratory and equipment and returning these materials to storage when the laboratory is concluded.

   e. Maintaining records of student attendance and equipment breakage and submitting these to the responsible faculty member. Assuming responsibility for maintaining animal-bite or other injury records and informing the appropriate faculty member.

   f. Assisting in preparation, administration, and grading of tests.

   g. Attending course lectures and assisting in roll-taking.
h. Exhibiting an interest in the academic progress of their students by reporting low grades, lack of interest, etc., to the responsible faculty member.

i. Aiding in other general academic duties such as administration of departmental examinations, etc.

**Evaluation**

Graduate assistants will be evaluated by the supervising faculty member each semester. The Graduate Program Director will make these forms available to each faculty member and will make the forms an official part of each graduate student's file. A copy of the evaluation form is included in the Appendix.
TIMETABLE for DOCTOR of PHILOSOPHY DEGREE in BIOLOGY

Summer 0 (following acceptance and prior to Fall I enrollment):

- Register for courses prior to 30 June (incoming students). Send course list to Tamara_Lehmann@baylor.edu as soon as possible so that your tuition remission can be applied to your account, if applicable. Late fees will be applied after 31 July. Incoming students typically enroll in the following courses:
  - BIO 5201 Research Methods in Biology I (2 credits)
  - BIO 5100 Seminar (typically more than one seminar option; 1 credit)
  - BIO 5412 or STA 5300 Biometrics/Statistical Methods (4 or 3 credits)
  - BIO 4000/5000 elective (if needed/applicable; 3-4 credits)
  - BIO 6101 Research Rotations (3 sections, 1 credit each, see next)

- CMHD students only: communicate individually with at least 4 faculty members to learn about possible rotation research projects and obtain permission to rotate in their lab. If agreed, each incoming student should then email the Graduate Program Director and Rotation Coordinator a list of four possible choices for rotations, ranked in order of preference, by noon, three weeks prior to the beginning of the Fall semester. Students should enroll in three different sections of BIO 6101, each corresponding to a different rotation advisor’s section number.

- Arrive on campus 1 week prior to the start of Fall I courses:
  - Attend meeting with lab coordinators for TA assignments, if applicable. Lab coordinators will work around your course schedule to assign lab sections.
  - Students on research assistantships (RA) should meet with their RA advisor during this week to plan a schedule for 20 h/week of work for the semester
  - Attend Graduate School Orientation, typically mid-week. Details will be provided to you directly from the Graduate School. This is important, please attend.

Fall I (1st semester)

- Coursework (minimum 9 hours), see above

- CMHD students will be actively engaged in Research Rotations, whereas EEO students should be integrating into their advisor’s research lab and meeting with their advisor regularly to shape their program of study.

- Teaching Assistantship (15 h/week) or Research Assistantship (20 h/week)

- Attendance and participation in Biology Seminar Series (weekly).

- Register for Spring I courses and send course list to Tamara_Lehmann@baylor.edu prior to the announced deadline or risk facing late fees and possible retraction of tuition remission from the Biology department. Courses typically completed in Spring I:
- BIO 5202 Research Methods in Biology II (2 credits)
- BIO 5100 Seminar (1 credit)
- BIO 5000 elective (3-4 credits), up to 2 courses
- STA 5300 (if not taken in Fall I, 3 credits)

- CMHD students only: student-advisor matching will occur at the end of the 3rd rotation, no later than the beginning of Spring I.

**Spring I (2nd semester)**

- Coursework (minimum 9 hours)
- TA/RA (15-20 h/week)
- Attendance at weekly Biology Department Seminar Series

- Make significant progress on readings, methods, and hypotheses that will form the basis of your PhD dissertation proposal.

- Begin to identify faculty members for your Preliminary Exam committee. Consider forming your Preliminary Examination committee during this semester, but no later than 4 weeks prior to the end of Summer I. Ask your advisor to submit names of the PhD Examination committee to the Graduate Program Director for formal approval.

- Register for Summer I and Fall II courses. Send course list to Tamara_Lehmann@baylor.edu prior to the announced deadline or risk facing late fees and possible retraction of tuition remission from the Biology department.

- Courses typically completed in Summer I
  - BIO 5V90, Special Problems, typically with your PhD advisor; 1-3 credits

- Courses typically completed in Fall II
  - BIO or related 5000 (electives), 3-4 courses, 6-10 hours
  - BIO 5100 Seminar (1 credit)

- CMHD students only: student-advisor matching will occur at the end of the 3rd rotation, no later than the beginning of Spring I.

**Summer I**

- Coursework (5V90, typically)
- TA one of two summer sessions (if on a TA); RA full summer (if on an RA).
- Begin drafting an outline of your PhD dissertation proposal.
• Formalize your Preliminary Examination committee no later than 4 weeks prior to the end of Summer I. Ask your advisor to submit names of the Preliminary Examination committee to the Graduate Program Director for formal approval. Failure to do this may result in probation and possible dismissal from the program.

Fall II (3rd semester)

• Coursework (minimum 9 hours)

• TA/RA (15-20 h/wk)

• Attendance and participation in Biology Seminar Series (weekly).

• Register for Spring II courses and send course list to Tamara_Lehmann@baylor.edu prior to the announced deadline or risk facing late fees and possible retraction of tuition remission from the Biology department. At this point your courses will be entirely electives (with the exception of one additional credit of BIO 5100) and should be driven by critical gaps in your knowledge as it relates to your dissertation topic. You should be interacting with your advisor and Preliminary Exam committee for guidance on relevant courses, as you should be wrapping up coursework during Spring II.

• Make appointments to meet with each the four Preliminary Examination committee members who will be responsible for writing questions for your PhD written preliminary exam in Spring II. This is very important! Begin to seek guidance from them about your dissertation proposal as well as specific areas on which they will test you during the written exam.

Spring II (4th semester)

• Coursework (minimum 9 hours)

• TA/RA (15-20 h/wk)

• Attendance and participation in Biology Seminar Series (weekly).

• Continue to meet with Preliminary Examination committee members to seek guidance in the development of your PhD dissertation proposal and material you must know in order to pass their components of the preliminary written exam.

• Preliminary Examination committee members must submit questions to the student’s PhD advisor at least 4 weeks prior to the PhD written preliminary exam. The student is responsible for reminding their committee members and advisor to ensure this is completed on time.

• The student’s PhD advisor must collate and submit questions for approval to the Graduate Program Director at least 2 weeks prior to the PhD written preliminary exam.
- Student must take the PhD written preliminary exam during this semester. The exam is typically held the last week of March or the first week of April.

- Students who pass the written preliminary exam should enroll in BIO 6V10, Dissertation Prospectus Research for Summer II and Fall III. BIO 6V10 is full-time equivalent (1 credit=full time).

**Summer II**

- BIO 6V10 Dissertation Prospectus Research (1 credit)
- TA one of two summer sessions (if on a TA); RA full summer (if on an RA).
- Students should be making significant progress on the PhD dissertation proposal, which must be defended by the end of Fall III (5th semester).

**Fall III (5th semester)**

- BIO 6V10 Dissertation Prospectus Research (1 credit)
- TA/RA (15-20 h/wk)
- Attendance and participation in Biology Seminar Series (weekly).
- Consult with the Preliminary Examination Committee (n=5 members) to schedule the PhD proposal defense at least 2 months in advance.
- Submit a final draft copy of the PhD dissertation proposal to the Preliminary Examination committee no less than 2 weeks prior to the defense.
- Submit an announcement of the date, time, location, and title of the dissertation proposal to Tamara_Lehmann@baylor.edu for distribution to the faculty and students no less than 2 weeks prior to the defense.
- Present and defend the proposed dissertation research to the Preliminary Examination committee no later than the last day of classes (excluding reading days and finals).
- Upon successful defense of the proposal defense, student must have each committee member sign Result of Doctoral Preliminary Examination and Application for Admission to Doctoral Candidacy forms. These forms should be signed by the Graduate Program Director and submitted to the Graduate School prior to the beginning of Spring III (6th semester). Students are not eligible to enroll in BIO 6V99 until admission to doctoral candidacy has been approved.
Spring III (6th semester)

- BIO 6V99 Dissertation (9-12 hours; forecast the number of hours you will need to achieve a minimum of 12 hours 6V99 and a total of 78 semester hours of all coursework). Student should be focused completely on completing proposed research from this point forward in their program of study.

- TA/RA (15-20 h/wk)

- Attendance and participation in Biology Seminar Series (weekly).

- Meet with PhD Dissertation committee (formerly your Preliminary Exam committee, although some changes in the committee composition may be necessary) to discuss progress on your research (once per semester, even if you need to meet with some members individually).

Summer III

- BIO 6V99 Dissertation (minimum 1 hour)

- TA one of two summer sessions (if on a TA); RA full summer (if on an RA).

- Student should be making significant progress on their PhD dissertation research with a goal of Spring IV (8th semester) graduation.

Fall IV (7th semester)

- BIO 6V99 Dissertation (minimum 1 hour)

- TA/RA (15-20 h/wk)

- Attendance and participation in Biology Seminar Series (weekly).

- Meet with PhD Dissertation committee to discuss progress on your research (once per semester, even if you need to meet with some members individually).

- Student should have at least one paper submitted for publication at this point in their program of study.

Spring IV (8th semester and beyond)

- BIO 6V99 Dissertation (minimum 1 hour)
• TA/RA (15-20 h/wk)

• Attendance and participation in Biology Seminar Series (weekly).

• Upon confirmation of acceptance of at least 1 publication, and upon completion of a rough draft of the PhD dissertation, consult with PhD advisor and committee (n=5 members) to schedule the PhD dissertation defense (final exam) at least 2 months in advance.

• Submit a final draft copy of the PhD dissertation the PhD committee no less than 2 weeks prior to the defense.

• Submit an Announcement of Doctoral Dissertation Defense form to Tamara_Lehmann@baylor.edu for distribution to the faculty and students no less than 2 weeks prior to the defense. This form must be submitted to the Graduate School no less than 10 days prior to the defense.

• Present and defend the dissertation research to the PhD committee no later than the last day of classes (excluding reading days and finals).

• Upon successful defense of the dissertation, the student must have each committee member sign Result of Doctoral Dissertation Defense and Examination. These forms should be signed by the Graduate Program Director and submitted to the Graduate School as soon as possible.

• For Spring graduation, the defense typically must be completed by mid-March in order to allow sufficient time for revisions to the dissertation and formatting by the Graduate School. Students who defend after the spring graduation deadline but before the end of the semester will officially graduate during the summer commencement (August of 4th year).

• See Appendix of Assorted Forms (last page) for additional forms related to dissertation formatting and final approval.
TIMETABLE for MASTER of SCIENCE DEGREE in BIOLOGY

Summer 0 (following acceptance and prior to Fall I enrollment):

- Register for courses prior to 30 June (incoming students). Send course list to Tamara_Lehmann@baylor.edu as soon as possible so that your tuition remission can be applied to your account, if applicable. Late fees will be applied after 31 July. Incoming students typically enroll in the following courses:
  - BIO 5201 Research Methods in Biology I (2 credits)
  - BIO 5100 Seminar (typically more than one seminar option; 1 credit)
  - BIO 5412 or STA 5300 Biometrics/Statistical Methods (4 or 3 credits)
  - BIO 4000/5000 elective (if needed/applicable; 3-4 credits)

- Arrive on campus 1 week prior to the start of Fall I courses:
  - Attend Graduate School Orientation, typically mid-week. Details will be provided to you directly from the Graduate School. This is important, please attend.
  - Students on research assistantships (RA) should meet with their RA advisor during this week to plan a schedule for 20 h/week of work for the semester

Fall I (1st semester)

- Coursework (minimum 9 hours), see above
- Attendance and participation in Biology Seminar Series (weekly).

- Register for Spring I courses and send course list to Tamara_Lehmann@baylor.edu prior to the announced deadline or risk facing late fees and possible retraction of tuition remission (if applicable) from the Biology department. Courses typically completed in Spring I:
  - BIO 5202 Research Methods in Biology II (2 credits)
  - BIO 5100 Seminar (1 credit)
  - BIO 5000 elective (3-4 credits), up to 2 courses
  - STA 5300 (if not taken in Fall I, 3 credits)

- Student should be actively participating in their advisor’s laboratory throughout the semester. Student should identify a thesis topic and make significant progress on readings, methods, and hypotheses that will form the basis of the thesis proposal.
- Student should begin to identify faculty members who would make strong contributions to your thesis committee.

Spring I (2nd semester)

- Coursework (minimum 9 hours)
• Attendance at weekly Biology Department Seminar Series

• Students must complete and defend their thesis proposal before the last day of classes, excluding final exam days. Failure to comply will result in probation (loss of funding). Further, if the student fails to complete and defend the proposal by the end of Summer I, the student may be dismissed from the program.

• Register for Summer I and Fall II courses. Send course list to Tamara_Lehmann@baylor.edu prior to the announced deadline or risk facing late fees and possible retraction of tuition remission from the Biology department.

• Courses typically completed in Summer I
  o BIO 5V90, Special Problems, typically with your PhD advisor; 1-3 credits

• Courses typically completed in Fall II
  o BIO or related 5000 (electives), 3-4 courses, 6-10 hours
  o BIO 5100 Seminar (1 credit)

Summer I

• Coursework (5V90, typically)

• Student should be making significant progress on data collection in support of their thesis, which should have been defended and approved by now.

Fall II (3rd semester)

• Coursework (minimum 9 hours)

• Attendance and participation in Biology Seminar Series (weekly).

• Register for Spring II courses and send course list to Tamara_Lehmann@baylor.edu prior to the announced deadline or risk facing late fees and possible retraction of tuition remission from the Biology department. At this point your courses either will be entirely electives or BIO 5V99 (minimum 6 credits to graduate).

Spring II (4th semester)

• Coursework (minimum 9 hours)

• Attendance and participation in Biology Seminar Series (weekly).

• Upon completion of a rough draft of the thesis, consult with thesis committee (n=3 members) to schedule the M.S. thesis defense (final exam) at least 2 months in advance.
• Submit a final draft copy (approved by your advisor) of the M.S. thesis to your committee no less than 2 weeks prior to the defense.

• Submit an *Announcement of Master's Thesis Defense* form to Tamara_Lehmann@baylor.edu for distribution to the faculty and students no less than 2 weeks prior to the defense. This form must be submitted to the Graduate School no less than 10 days prior to the defense.

• Present and defend the thesis research to the M.S thesis committee no later than the last day of classes (excluding reading days and finals). For Spring graduation, the defense typically must be completed by mid-March to allow sufficient time for revisions to the thesis and formatting by the Graduate School. Students who defend after the spring graduation deadline but before the end of the semester will officially graduate during the summer commencement (August).

• Upon successful defense of the thesis, the student must have each committee member sign *Result of Master's Thesis Defense and Oral Examination* These forms should be signed by the Graduate Program Director and submitted to the Graduate School as soon as possible.
TIMETABLE for MASTER of ARTS-HEALTH PROFESSIONS DEGREE

Spring 0 (following acceptance and prior to summer enrollment):
- Identify an advisor (see CMHD faculty). This individual will serve as your mentor for 5V90 and help you choose appropriate courses. Contact Myeongwoo_Lee, the MA-HP coordinator, for assistance.
- Register for courses prior to 15 May (incoming students). Send course list to Tamara_Lehmann@baylor.edu as soon as possible so that your tuition remission can be applied to your account, if applicable. Incoming students typically enroll in 3-6 credits of 5V90, but other summer courses may be relevant. Please consult with your advisor.

Summer I
- Arrive on campus for the first day of classes. Meet with your advisor and go over your plan for the summer.

Participate in laboratory research in your mentor’s lab. This work will form the basis of your exit seminar the following Spring.

- Register for Fall I courses prior to 30 June. Send course list to Tamara_Lehmann@baylor.edu as soon as possible so that your tuition remission can be applied to your account, if applicable. Most MA-HP students take the following courses, but please consult with your advisor.
  - BIO 5201 Research Methods in Biology I (2 credits)
  - BIO 5100 Seminar (typically more than one seminar option; 1 credit)
  - BIO 5412 or STA 5300 Biometrics/Statistical Methods (4 or 3 credits)
  - BIO 4000/5000 elective (typically 2 courses; 3-4 credits each, 6-8 credits total)

- Arrive on campus 1 week prior to the start of Fall I courses:
  - Attend Graduate School Orientation, typically mid-week. Details will be provided to you directly from the Graduate School. This is important, please attend.

Fall I (1st semester)
- Coursework (minimum 9 hours), see above
- Attendance and participation in Biology Seminar Series (weekly).
- Register for Spring I courses and send course list to Tamara_Lehmann@baylor.edu prior to the announced deadline or risk facing late fees and possible retraction of tuition remission (if applicable) from the Biology department. Courses typically completed in Spring I:
  - BIO 5202 Research Methods in Biology II (2 credits)
  - BIO 5100 Seminar (1 credit)
  - BIO 5000 elective (3-4 credits), up to 2 courses
  - STA 5300 (if not taken in Fall I, 3 credits)
- Student should be actively participating in their advisor’s laboratory throughout the semester.
Spring I (2nd semester)

- Coursework (minimum 9 hours)
- Attendance at weekly Biology Department Seminar Series
- Students must complete and defend their exit exam before the deadline for Spring graduation. Failure to comply may result in dismissal from the program. This is a 1-year (365 days) program, so students are expected to complete their 30-hour degree in 1 year.
## BIOLOGY GRADUATE FACULTY

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Department</th>
<th>University</th>
<th>Research Focus</th>
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</thead>
<tbody>
<tr>
<td>ROBERT ADAMS (CMHD, EEO)</td>
<td>PhD, University of Texas</td>
<td>Systematics of Juniperus</td>
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<tr>
<td>BESSIE W. KEBAAARA (CMHD)</td>
<td>PhD, University of Nebraska</td>
<td>Microbiology</td>
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<tr>
<td>ROBERT S. BALDRIDGE (EEO)</td>
<td>PhD, Kansas State University</td>
<td>Parasitology, Medical Entomology</td>
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<tr>
<td>RYAN S. KING (EEO)</td>
<td>PhD, Duke University</td>
<td>Freshwater Biology, Ecological Statistics</td>
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<tr>
<td>MARIA BOTTAZZI (CMHD)</td>
<td>PhD, University of Florida</td>
<td>Vaccine Development, Tropical Disease Biology</td>
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<tr>
<td>MYEONGWOO LEE (CMHD)</td>
<td>PhD, Illinois State University</td>
<td>Developmental Biology of C. elegans</td>
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<tr>
<td>PATRICK D. DANLEY (EEO, CMHD)</td>
<td>PhD, University of New Hampshire</td>
<td>Evolutionary Biology, Speciation of African Cichlids</td>
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<tr>
<td>JASON PITTS (CMHD)</td>
<td>PhD, Vanderbilt University</td>
<td>Sensory Biology of Disease Vector Insects</td>
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<td>ROBERT D. DOYLE (EEO)</td>
<td>PhD, University of Maryland</td>
<td>Wetland Ecology, Aquatic Plants</td>
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<tr>
<td>THAD SCOTT (EEO)</td>
<td>PhD, Baylor University</td>
<td>Limnology, Aquatic Biogeochemistry</td>
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<tr>
<td>KEVIN GUTZWILLER (EEO)</td>
<td>PhD, University of Wyoming</td>
<td>Landscape Ecology, Conservation Biology</td>
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<tr>
<td>CHEOLHO SIM (CMHD)</td>
<td>PhD, University of Notre Dame</td>
<td>Molecular Biology, Disease-Vector Mosquitos</td>
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<tr>
<td>WALTER HOLMES (EEO)</td>
<td>PhD, Mississippi State University</td>
<td>Plant Taxonomy, Medical Botany</td>
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<tr>
<td>DWAYNE D. SIMMONS (CMHD)</td>
<td>PhD, Harvard University</td>
<td>Integrative Biology and Physiology, Hearing Disorders, Neuroscience</td>
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<tr>
<td>PETER J. HOTEZ (CMHD)</td>
<td>PhD, The Rockefeller University</td>
<td>Drug and Vaccine Development, Tropical Disease Biology</td>
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<tr>
<td>JOSEPH H. TAUBE (CMHD)</td>
<td>PhD, University of Texas Health</td>
<td>Cancer Biology</td>
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<td>SANGHOON KANG (EEO, CMHD)</td>
<td>PhD, University of Virginia</td>
<td>Microbial Ecology</td>
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<tr>
<td>STEPHEN J. TRUMBLE (EEO)</td>
<td>PhD, University of Alaska-Fairbanks</td>
<td>Marine Mammal Physiology, Whale Earwax Chemical Profiles</td>
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<td>CHRISTOPHER KEARNEY (CMHD)</td>
<td>PhD, Cornell University</td>
<td>Biotechnology, Molecular Genetics</td>
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<tr>
<td>JOSEPH D. WHITE (EEO)</td>
<td>PhD, University of Montana</td>
<td>Ecosystem Response to Fire and Climate Change, Remote Sensing</td>
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APPENDIX of ASSORTED FORMS

This appendix includes many of the forms that you will need as you progress through your graduate program at Baylor University. These forms are available to you as hyperlinks on the Graduate School website.

<table>
<thead>
<tr>
<th>Forms Available for Download:</th>
<th>Adobe Acrobat required</th>
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<tbody>
<tr>
<td>Graduate School Petition</td>
<td>Download</td>
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<td>Announcement of Master's Thesis Defense</td>
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<tr>
<td>Result of Master's Thesis Defense and Oral Examination</td>
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<td>Doctoral Investment Form</td>
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<td>Preliminary Review Checklist for Dissertations and Theses</td>
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<tr>
<td>Final Review Checklist for Dissertations and Theses</td>
<td>Download</td>
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<tr>
<td>Approval of Final Dissertation/Thesis Copy</td>
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**Forms/Materials Not Available For Download?**
Contact Sherry_Sims@baylor.edu, or at 710-4610.