GRADUATE STUDENT HANDBOOK

2021-2022

Department of Biology

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FOREWORD


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**2021-2022**

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Contents

FOREWORD ............................................................................................................................................. 2

OBJECTIVES OF THE PROGRAM ............................................................................................................ 5

PROGRAM OF STUDY: DOCTOR OF PHILOSOPHY DEGREE IN BIOLOGY ........................................... 6

  PROGRAM OBJECTIVES .......................................................................................................................... 6
  ASSESSMENT OF PROGRAM OBJECTIVES ............................................................................................ 6
  COURSE WORK ......................................................................................................................................... 7
  TRANSFER CREDITS ................................................................................................................................. 8
  COURSES OUTSIDE THE MAJOR FIELD ................................................................................................. 8
  RESIDENCE STUDY .................................................................................................................................. 8
  TEACHING ................................................................................................................................................. 8
  MINIMUM GRADE REQUIREMENTS ...................................................................................................... 9
  SEMINAR ATTENDANCE POLICY AND GRADUATE SCIENTIFIC COMMUNICATIONS (BIO 5101) ......... 9
  PUBLICATION REQUIREMENT .............................................................................................................. 9
  LAB RESEARCH ROTATIONS ................................................................................................................ 10
    Rotation Presentations .......................................................................................................................... 11
    Student-Advisor Matching .................................................................................................................... 11
  ROLE OF THE PHD ADVISOR AND PRELIMINARY EXAMINATION COMMITTEE............................. 11
  PRELIMINARY EXAMINATION ............................................................................................................ 12
    Mechanics of the Written Preliminary Exam (Preliminary Exam, Part I) ............................................. 13
    Mechanics of the Dissertation Proposal Defense (Preliminary Exam, Part II) .................................... 14
  MID-CANDIDACY COMMITTEE MEETING (PERMISSION TO DEFEND) ............................................. 16
  DISSERTATION DEFENSE (FINAL EXAMINATION) ............................................................................. 16
    Scheduling of Dissertation Defense ................................................................................................... 17

MASTER’S PROGRAMS ............................................................................................................................... 18

PROGRAM OF STUDY: MASTER OF SCIENCE IN BIOLOGY ................................................................. 18

  PROGRAM OBJECTIVES .......................................................................................................................... 18
  ASSESSMENT OF PROGRAM OBJECTIVES ............................................................................................ 18
  COURSEWORK AND RESEARCH ............................................................................................................. 19
  SEMINAR ATTENDANCE POLICY AND GRADUATE SCIENTIFIC COMMUNICATIONS (BIO 5101) ......... 19
  ADVISOR AND THESIS COMMITTEE .................................................................................................... 20
  THESIS PROPOSAL .................................................................................................................................. 20
  PREPARATION OF THE THESIS ............................................................................................................ 20
  SUBMISSION AND REVIEW OF THESIS ................................................................................................. 20
  FINAL COMPREHENSIVE ORAL EXAM ................................................................................................. 21
  DESCRIPTION OF EXAM ....................................................................................................................... 21
  SCHEDULING OF ORAL EXAM .............................................................................................................. 21
  EXAMINATION COMMITTEE ................................................................................................................ 22
  VOTING .................................................................................................................................................... 22

PROGRAM OF STUDY: MASTER OF ARTS DEGREE IN BIOLOGY – HEALTH PROFESSION ................. 23

  ASSESSMENT OF OBJECTIVES .............................................................................................................. 23
  COURSEWORK ......................................................................................................................................... 23
  ADVISOR AND EXIT EXAM COMMITTEE ................................................................................................. 25
  EXIT SEMINAR ......................................................................................................................................... 25
  SCHEDULING OF EXIT SEMINAR AND EXAM ...................................................................................... 25
  VOTING .................................................................................................................................................... 26

GENERAL REGULATIONS AND POLICIES ............................................................................................. 27

FINANCIAL SUPPORT ............................................................................................................................... 29

REGARDING THE NUMBER OF CREDIT HOURS FOR ENROLLMENT ....................................................... 30

ASSIGNMENT OF GRADUATE-STUDENT TEACHING DUTIES .............................................................. 31

TIMETABLE FOR DOCTOR OF PHILOSOPHY DEGREE IN BIOLOGY .................................................. 33
SUMMER 0 (FOLLOWING ACCEPTANCE AND PRIOR TO FALL I ENROLLMENT): .................................................. 33
FALL I (1ST SEMESTER) .......................................................................................................................... 33
SPRING I (2ND SEMESTER) ..................................................................................................................... 34
SUMMER I .................................................................................................................................................. 34
FALL II (3RD SEMESTER) ........................................................................................................................ 35
SPRING II (4TH SEMESTER) .................................................................................................................... 35
SUMMER II ............................................................................................................................................... 36
FALL III (5TH SEMESTER) ........................................................................................................................ 36
SPRING III (6TH SEMESTER) ................................................................................................................... 37
SUMMER III ............................................................................................................................................. 37
FALL IV (7TH SEMESTER) ........................................................................................................................ 37
SPRING IV (8TH SEMESTER AND BEYOND) .......................................................................................... 38

TIMETABLE FOR MASTER OF SCIENCE DEGREE IN BIOLOGY .......................................................... 39
SUMMER 0 (FOLLOWING ACCEPTANCE AND PRIOR TO FALL I ENROLLMENT): ........................................... 39
FALL I (1ST SEMESTER) .......................................................................................................................... 39
SPRING I (2ND SEMESTER) ..................................................................................................................... 39
SUMMER I .................................................................................................................................................. 40
FALL II (3RD SEMESTER) ........................................................................................................................ 40
SPRING II (4TH SEMESTER) .................................................................................................................... 40

TIMETABLE FOR MASTER OF ARTS-HEALTH PROFESSIONS DEGREE .................................................. 42
SPRING 0 (FOLLOWING ACCEPTANCE AND PRIOR TO SUMMER ENROLLMENT): ............................................ 42
SUMMER I ................................................................................................................................................... 42
FALL I (1ST SEMESTER) .......................................................................................................................... 42
SPRING I (2ND SEMESTER) ..................................................................................................................... 42

BIOLOGY GRADUATE FACULTY ............................................................................................................. 44

APPENDIX 1: TABLE OF FORMS FOR THE M.S. AND PH.D. DEGREES. .................................................... 45
APPENDIX 2: TIMETABLE FOR THE DOCTOR OF PHILOSOPHY DEGREE, GRAPHICAL REPRESENTATION. ................................................................................................................................. 46
APPENDIX 3: BIOLOGY DEPARTMENT FORMS FOR CANDIDACY AND PERMISSION TO DEFEND .......... 47
OBJECTIVES of the PROGRAM

The Graduate Program of the Biology Department endeavors to provide a diverse, inclusive, 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 (3) proceed toward making their own contribution to the scientific community.

Once a student has completed their graduate degree(s), they 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 their area of specialty.

Students may focus their studies within one of two degree tracks though many faculty research programs and course offerings bridge these 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, 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 summer between the 4th and 5th semesters or the 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. The defense serves as the student’s final exam. Students must complete a multi-chaptered dissertation (at least 3 chapters, each representing work equivalent to a peer-reviewed publication in a journal considered rigorous and reputable by the advisor and PhD committee) and defend the research therein in public to their
dissertation committee. The students’ publications may be used as chapters provided that a statement of work indicating the specific contributions of the student is provided. 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 40 of the 78 semester hours must consist of course work, excluding BIO 6V10, Dissertation Prospectus Research and BIO 6V99, Dissertation.

3. A minimum of 28 of the 40 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 (STA 5300, 3 hours, or comparable course)
   - Graduate Scientific Communications (BIO 5101, minimum 4 hours*)
   - Seminar (BIO 5100, minimum of 4 hours).
   - CMHD students only: Research Rotations (BIO 6101, 3 hours/sections).

   *1 credit per semester, taken each of first 4 semesters

5. A maximum of 8 combined hours of BIO 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 40 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 hours from 5V90 can be applied toward the 40 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. Important: once a student has completed the maximum hours of 5V90, a student will be responsible for the cost of any additional hours of 5V90 (i.e., Baylor will not pay for unnecessary course credits).
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. The graduate student 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 36 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 either the written preliminary exam or dissertation proposal defense can begin dissertation research by registering for BIO 6V10, Dissertation Prospectus Research during the transition period from one exam to the next. 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., graduate-level statistics, STA 5300). Thesis hours (i.e., 5V99 or equivalent) are not transferable toward doctoral requirements. Please refer to the form “Graduate School Petition” in Appendix 1 for petitioning for transfer credits. Student’s transferring credits from a Master’s degree program and with significant research experience may elect to proceed to candidacy ahead of schedule. Please see the section on the candidacy exam for alternative arrangements.

**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 Anthropology, Psychology and Neuroscience, Computer Science, Geology, Statistics, Chemistry and Biochemistry, Environmental Science (ENV), 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).

Seminar Attendance Policy and Graduate Scientific Communications (BIO 5101)

All first and second year Biology Ph.D. students are required to enroll in BIO 5101, Graduate Scientific Communications. This is a formalized course for graduate students to receive credit for attending weekly Biology seminars and leading discussion groups with undergraduates who are simultaneously enrolled in BIO 4199, Scientific Communication.

BIO 5101 will be offered each semester, so all incoming Ph.D. students must enroll in and complete 4 semesters of BIO 5101 (fall and spring of years 1 and 2). Students will receive coursework credit for up to 4 hours of 5101. Attendance policy for BIO 5101 will be determined by the faculty leading the course each semester. Students will be expected to sign in prior to the beginning of each seminar.

Students who are not enrolled in BIO 5101 must attend a minimum of 50% of all weekly Biology seminars. Exemptions may include but are not limited to conflicting research or teaching activities. Students who qualify for exemptions are responsible for notifying the faculty member who is instructor of record for BIO 5101 in advance of absences. Excessive absences may result in probation and loss of funding from the department.

Publication Requirement

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.

Students must publish at least one paper from their dissertation research to progress to the PhD Dissertation Defense. That is, students may not defend their dissertation until at least one paper has been accepted for publication in a peer-reviewed journal that is deemed reputable and rigorous by the advisor and PhD committee. The student must be the first author but may have secondary authors on this paper, including other students. Papers that are considered in press must be documented through communications with the journal’s editorial staff. Publication requirements may vary with faculty (i.e., some may require
more than one to be accepted before allowing a student to progress to the Ph.D. Dissertation Defense); therefore, students are strongly encouraged to discuss this early on in their program with their advisor and a formal agreement between student and advisor is to be signed at the Mid-candidacy committee meeting.

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.

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.

Lab Research Rotations

Research Rotations (6101) are an integral part of the CMHD degree track 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 concentrating in CMHD are expected to take and pass three rotations with three different faculty members during their first semester. One, but no more than one, faculty member who is appointed to the Biology department as a secondary appointee may also serve as a rotation advisor. Most students will be matched with their dissertation lab after three rotations. If additional lab exposure is necessary, a fourth rotation (during the first 5 weeks of the second semester), is optional but discouraged.

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 determine which lab best matches their interests. A good fit with a lab includes several factors, including the professional goals of the student and the research direction and pace of the lab as well as how the student, the faculty member and the other lab members interact and mesh personally. To explore this fit, the student and faculty member should have at least one formal meeting per week during the 5-week rotation period. In addition to discussing relevant papers and techniques, topics of discussion should include the research goals for the lab as a whole over next several years along with the expectations for the performance and contribution of the student should they join the lab. Specific goals for potential projects for the student should be clearly indicated if possible. Further, students should demonstrate to potential advisors their enthusiasm, responsibility, maturity, and initiative.

Following acceptance to the graduate program, students should communicate with faculty members about possible rotation research projects and to obtain permission to enter a rotation
in their lab. If agreed, each incoming student should then email the Graduate Program Director and Rotation Coordinator their rotation priorities by July 1st. The student will receive confirmation of the order of rotation assignments prior to the beginning of the Fall semester.

Rotation Presentations

After each of the three required rotations, students present 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, as well as possible next steps. Consultation with your rotation advisor and/or practice presentations in lab meetings are strongly advised.

Student-Advisor Matching

The purpose of rotations is to provide students in-lab experience as well as an opportunity to evaluate potential graduate advisors. This also provides an opportunity for faculty to evaluate students. No student should assume that completion of a rotation constitutes approval for joining a specific lab. Instead, 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. Upon completion of the third rotation, a prioritized list of prospective graduate advisors must be submitted to the Graduate Program Coordinator, Cameron Kaveney, who, in consultation with the concerned faculty and the Graduate Program Director, will facilitate matching of students with advisors.

Following a successful match, the faculty member and student, in consultation with the Graduate Program Director, will create a written agreement which clearly indicates the expectations of performance for the student. This may include attendance, clean-up and maintenance, communication, publications, and other responsibilities. The agreement should also include the expectations of the student for the faculty member such as regular meetings, clear objectives, opportunities for presentations and other obligations.

When a match with the top choice is not possible, the student will likely be matched with one of their 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.
The outside committee member also may have a secondary appointment in Biology. In special cases, the outside committee member also may be non-Baylor faculty. Outside members who are not Baylor faculty must be approved by the Graduate Program Director to ensure their credentials are sufficient to serve on a PhD committee. Requirements for a non-Baylor committee member include, at a minimum, a PhD in Biology or a closely related field, expertise relevant to the student’s research, strong record of publication and grant funding, and a current appointment at university or major research facility or institution (e.g., Smithsonian, Center for Disease Control). Prior to inviting any non-Baylor scientists to serve on a committee, please submit a current CV of the prospective outside committee member and a letter of justification to the Graduate Program Director for review and approval.

This committee must be appointed no later than 4 weeks prior to the end of the first summer (prior to the start of the Fall semester of their second 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, second year. Details about the written exam and proposal defense are presented in the upcoming sections of this document.

**First Committee Meeting**

In preparation for the preliminary exam, the student should schedule a first committee meeting during the Fall semester of their 2nd year. The objectives of this meeting should primarily be to discuss the rationale for and scope of the research topic. The committee should also ensure the student has adequate background knowledge and methodological training to pursue this topic.

**Preliminary Examination**

The preliminary exam consists of two parts: 1) written preliminary exam and 2) 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.

Taking the Preliminary Exam is typically initiated in the Spring of Year 2 (semester 4) and completed by the Fall of Year 3 (semester 5). Student’s entering the PhD program with a MS degree and with significant research experience may elect to initiate the Preliminary Exam in the Spring of Year 1 (semester 2) and complete it by the Fall of Year 2 (semester 3). This is optional and such students may also choose to initiate the Preliminary Exam in the Spring of Year 2 (semester 4). If a student is not prepared to initiate the Preliminary Exam by the Spring of Year 2 (semester 4), a written explanation from the student’s mentor must be submitted to the GPD. Only highly unusual circumstances shall be designated sufficient cause to delay the Preliminary Exam.
Mechanics of the Written Preliminary Exam (Preliminary Exam, Part I)

The exam will be composed of eight (8), two-hour examination sessions, conducted over a minimum of two days (Friday-Saturday) and administered in the last week of March or first week of April each Spring. The exam content will be student-specific. Biology Preliminary Examination committee members will each write two pairs of questions (n=4 committee members, outside member excluded for the written exam). The student will only have to provide an answer to one question from each pair during each session (8 pairs of questions, but only 8 answers). Questions will be focused heavily on both fundamentals and specifics related to the student’s area of study, particularly their anticipated dissertation research.

For Students: You 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.

For Advisors: 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, ensure that there is minimal overlap or duplication, and submit them to the Graduate Program Director at least 2 weeks prior to the exam so that the Graduate Committee has a record of the questions, can vet the questions, and compile the exams. 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 without reference or access to any other materials, directly into Canvas on workstations in the Biology Computer Lab (A.305) or an alternative venue, depending upon availability. All answers will be screened for plagiarism. Any breach of the Honor Code, including the use or presence of unauthorized materials, will result in automatic failure and will be considered as a violation of the Graduate School's policy on Professional conduct with the potential for dismissal from the program.

Following the examination, answers will be distributed to faculty members for grade assignment. Graded answers will be distributed to the student and Biology Graduate Committee. Students must receive an average of at least 70% from each committee member. The Graduate Program Director will certify exam results. Students may view graded exams after notification of results.

Should a student fail a set of questions written by one of the four committee members), the student will be placed on 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 third 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 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 the 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 Dissertation Proposal Defense (Preliminary Exam, Part II).**

Students that pass the written exam are automatically qualified to progress 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.*

**Important:** Proposals must describe a minimum of 3 chapters, each equivalent to a publication. The publication requirement does not mean that a student can defend their dissertation once one chapter is accepted for publication. This requirement means that a student cannot defend until one chapter is accepted, but this is secondary to having a complete, defensible dissertation comprised of a minimum of 3 chapters, reviewed and approved by their advisor and committee as being ready for defense. Therefore, the Dissertation Proposal must be structured so as to yield this result.

Students and Preliminary Exam committee members (now including the “outside” committee member, n=5) should discuss and determine the schedule for proposal defense *two months before the exam*. 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*. The proposal defense must be completed by the end of the fifth semester. If a student does not complete their proposal defense by their fifth semester, they will be placed on probation, which could result in the loss of stipend and tuition support. Should the student fail to pass the proposal defense by the end of the sixth semester (spring of the third year), the student will be dismissed from the Ph.D. program and given the option to complete any of the department’s master’s degrees, but must fund their own tuition unless their advisor has an extramural grant that includes tuition remission and stipend support.

It is strongly recommended that the proposal be structured similarly to research grant proposals (NSF or NIH F31), 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 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 (no more than 3 hours total, including the public presentation).

The Ph.D. advisor is considered *ex officio* 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 receive a formal reprimand from the Department Chair and Graduate Program Director which may result in a probationary period when the faculty member will not be permitted to support new students on Departmental assistantships.

The four voting members of the proposal defense committee (all members excluding the Ph.D. advisor) should discuss the student’s performance on the oral exam in the absence of the Ph.D. advisor; i.e., the Ph.D. advisor should leave the room along with the student so that each committee member feels free to express their opinion and submit their vote without influence of the Ph.D. advisor. One committee member should be responsible for tallying the votes, preferably the outside committee member, and subsequently report the outcome of the exam to the Ph.D. advisor and student after calling them back into the exam room. It is critical that votes of individual committee members remain anonymous to the Ph.D. advisor.

A passing vote from 3 of 4 committee members, excluding the Ph.D. advisor, will result in either an unconditional or a conditional pass. In either case, the student will advance to Ph.D. candidacy status and receive a $1,000 increase to their total stipend (if funded by a Biology Graduate Assistantship). However, students who pass conditionally are expected to respond, in writing, to each concern raised by committee members and revise their proposal accordingly. These requirements shall be documented using the form in Appendix 3.
Should a student receive only 2 passing votes out of 4 (50% score), 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 during the second defense; 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 only 0 or 1 passing votes out of 4 (25% or lower passing score) 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.

**Mid-Candidacy Committee Meeting (Permission to Defend)**

After completing the preliminary exam, but prior to the dissertation defense, the candidate must gain permission to defend from the dissertation committee. The objectives of this meeting should be to 1) outline the progress made towards completion of the aims and towards publication of the results and 2) to detail remaining requirements for the candidate to gain permission to defend. At the end of the meeting, the specific requirements that must be met for the advisor to permit the student to defend must be agreed upon in writing. Typically, this will detail the number and status (published, in press, accepted with minor revisions, under review) of publications. These requirements shall be documented using the form in Appendix 3.

In most cases, this meeting should take place in the late part of the 4th year or early part of the 5th year of the graduate program but may be earlier or later if necessary. With rare exceptions, the meeting should occur no earlier than 1 year following the proposal defense and should precede the dissertation defense by no less than 3 months. This is to allow time for the student to achieve progress in their research and for the committee to outline necessary goalposts towards defending.

**Dissertation Defense (Final Examination)**

After completion of doctoral dissertation research, which culminates in a formatted document that represents a minimum of 3 publication-quality chapters, the candidate has a final oral examination involving presentation and defense of their dissertation. Approval from the research advisor and dissertation committee is required to proceed to a dissertation defense. An invitation to all members of the Biology faculty and graduate students is required to proceed to a dissertation defense. 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 (see Appendix 1 for forms). 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 Final Examination Committee, with the Ph.D. advisor serving as a non-voting member (ex officio). The dissertation defense may not last longer than three hours, including the public presentation.
The four voting members of the Final Examination Committee (all members excluding the Ph.D. advisor) should discuss the student’s performance on the exam in the absence of the Ph.D. advisor; i.e., the Ph.D. advisor should leave the room along with the student so that each committee member feels free to express their opinion and submit their vote without influence of the Ph.D. advisor. One committee member should be responsible for tallying the votes, preferably the outside committee member, and subsequently report the outcome of the exam to the Ph.D. advisor and student after calling them back into the exam room. It is critical that votes of individual committee members remain anonymous to the Ph.D. advisor. 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 of 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 Oral Exam form to the Graduate School at least 10 working days before the event (Appendix 1). Failure to do this could result in a nullification of the defense and a rescheduling of the event!

2. All exams must be held when Baylor is officially in session (Fall, Spring, or Summer terms). No exams may be scheduled on holidays or during interims between terms. Exams can be scheduled during final exams, however. *This rule is strictly enforced by the Graduate School.*

3. 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. Exams may not exceed 3 hours.

Please refer to the TIMETABLE for the DOCTOR OF PHILOSOPHY IN BIOLOGY near the end of this document and the corresponding graphical representation of the timetable (Appendix 2) 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 our master's students are enrolled: (1) Master of Science in Biology and (2) Master of Arts, Health Profession.

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) Cell, Molecular, Health, and Disease (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 their 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) Cell, Molecular, Health, and Disease (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)
   - Statistics (STA 5300, 3 hours, or comparable course)
   - Graduate Scientific Communications (BIO 5101, minimum 2 hours*)

   *1 credit per semester, taken each of first 2 semesters

2. Up to 4 hours of Seminars in Biology (BIO 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 (excluding the 6 hours of 5V99) 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).

**Seminar Attendance Policy and Graduate Scientific Communications (BIO 5101)**

All first-year Biology Master of Science students are required to enroll in BIO 5101, Graduate Scientific Communications (both semesters). This is a formalized course for graduate students to receive credit for attending weekly Biology seminars and leading discussion groups with undergraduates who are simultaneously enrolled in BIO 4199, Scientific Communication.

BIO 5101 will be offered each semester, so all incoming Master of Science students will eventually complete 2 semesters of BIO 5101. Students will receive coursework credit for up to 2 hours of 5101. Attendance policy for BIO 5101 will be determined by the faculty leading the course each semester. Students will be expected to sign in prior to the beginning of each seminar.
Students who are not enrolled in BIO 5101 must attend a minimum of 50% of all seminars. Exemptions may include but are not limited to conflicting research or teaching activities.

**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 must be 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 their 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 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.

3. All exams must be held when Baylor is officially in session. No exams may be scheduled on holidays 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 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.

**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. Students must receive 2 passing votes out of 3 to pass the exam.

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 in 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), Research Methods in Biology III (BIO 5213, 2 hours) and Statistics (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) 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 September 15th, but 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. If desired, the student may engage with multiple faculty and perform short rotations (1-week) before 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 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.
GENERAL REGULATIONS AND POLICIES

1. Student attitude, appearance, and conduct are expected to be of the highest professional level. **Inappropriate behavior, including fraternizing with undergraduate students, failure to follow directions specified by Laboratory Coordinators, Instructors, or your Advisor, tardiness, violating laboratory safety regulations (e.g., food or beverages in the lab, etc.), violations of the Honor Code, 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 and possibly be removed as a teaching or research assistant for one semester, including loss of funding. Repeat offenses will result in dismissal from the program.**

2. 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.

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. CMHD students in their first year should consult with the Graduate Program Director, Rotation Coordinator, and/or presumptive advisor. Upon completion of registration and any subsequent schedule changes, the student must provide a copy of the class schedule to the Graduate Program Coordinator (Cameron Kaveney). This copy of your official class schedule is essential for the Graduate Program Director and Coordinator to allocate appropriate tuition scholarship funds to you and to avoid unnecessary fees from the University.

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 required. At least one credit hour of full-time equivalent courses must be registered every session, including summer, for a student to remain in the program. Failure to maintain continuous enrollment may result in the student being dismissed from the program or having to re-apply to the program through the Graduate School.
6. All students should own a personal laptop computer. Several courses may require a personal laptop. Further, it is tremendously beneficial to the student as a professional to have access to computing off-campus. In addition, the Biology Department supports graduate-student computer needs by equipping most 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 can conduct limited photocopying on the machine in the Biology Office. These privileges pertain primarily to copying associated with graduate assistantship duties. Where possible, use library-sponsored Ososfast or email to request research articles. 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 and passing of an online driving test with the department and university (forms available in Biology Office). Posted rules for vehicle use are to be followed by all drivers.

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 advisor is always a good source of advice and information on this and many other matters.

12. 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.

13. All 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 review the attendance policies for each program.
FINANCIAL SUPPORT

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 generally available for up to but *no longer* than 5 years. Funding beyond year 5 is not guaranteed, even if students were funded on research assistantships during their first 5 years. Funding beyond year 5 should come from a student’s advisor via extramural funding or their own internal funding. Under special circumstances, students may be funded as teaching assistants after year 5 if the department has open slots available and is need of teaching assistants. However, this should not be expected and students should be prepared to lose funding after year 5 if they have not defended their dissertation.

Funding for M.S. students is restricted to research assistantships from extramural funding (i.e., grants and contracts) and only guaranteed for the amount of time specified in the acceptance letter, if any at all.

2. Generally, a maximum of 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.
REGARDING THE NUMBER OF CREDIT HOURS FOR ENROLLMENT.

*Up-to-date information is available [here](#)*

Several overlapping but distinct policies impact students that enroll for less than full-time (9 hours of course work) or full-time equivalent (1 hr of 5V99, 6V10, or 6V99) during the fall and spring semesters.

The policies below are in regard to the graduate school. Additional considerations such as financial aid eligibility, tax status as a dependent may also be affected by enrolling less than full-time.

These policies are mostly relevant to students who transfer significant numbers of graduate credit hours and therefore, may wish to enroll in less than 9 credit hours at certain points during this graduate career.

1. All semesters (fall, spring, summer) require 9 hours to be “full-time” unless 1 hour of a full-time equivalent (FTE) course is taken. FTE courses in Biology are 5V99, 6V10, and 6V99.

2. All students registered for at least 3 hours or 1 FTE must show proof of insurance or enroll in Baylor’s insurance program.

3. All PhD students registered for at least 3 hours or 1 FTE qualify for a 50% student fee subsidy.

4. All students registered for at least 3 hours and who are also fully-funded on an assistantship are eligible to receive the 80% insurance subsidy.

5. International students must be enrolled on a full-time basis throughout their time in graduate school, EXCEPT for summer terms, AS LONG AS full-time is achieved the previous spring and subsequent fall.

6. Registration for at least 5 hours or 1 FTE is required to be exempt from FICA taxes, see policy [here](#).

7. NOTE: During the summer, it is not necessarily recommended that students register for 5 hours to be “half-time”, especially for financial reasons. The cost burden in course fees may very well exceed the cost of FICA taxes. Also, less than full-time summer registration is only likely to occur for PhD students during the first summer. Subsequent summers should include either 6V10 or 6V99 registration which are FTE courses.
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, they are 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. Providing instruction through recitation sections.
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.
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 Cameron Kaveney 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 5100 Seminar (typically more than one seminar option; 1 credit)
  - BIO 5101 Graduate Scientific Communications (1 credit)
  - BIO 5201 Research Methods in Biology I (2 credits)
  - STA 5300 Statistical Methods or comparable course (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 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, Rotation Coordinator, and Rotation Advisor at least 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.
  - Attend New Biology Graduate Student Information Session. Snacks or lunch will be provided. Required.

Fall I (1st semester)

- Coursework, 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 via BIO 5101 (weekly).
• Register for Spring I courses and send course list to Cameron Kaveney 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:
  o BIO 5202 Research Methods in Biology II (2 credits)
  o BIO 5100 Seminar (1 credit)
  o BIO 5101 Graduate Scientific Communications (1 credit)
  o BIO 5000 elective (3-6 credits), up to 2 courses
  o 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

• TA/RA (15-20 h/week)

• Attendance at weekly Biology Department Seminar Series via BIO 5101

• 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 you 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 Cameron Kaveney 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)
  o BIO 5100 Graduate Scientific Writing and Communication (1 credit)
  o BIO 5101 Graduate Scientific Communications (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)**

• TA/RA (15-20 h/wk)

• Attendance and participation in Biology Seminar Series via BIO 5101 (weekly).

• Register for Spring II courses and send course list to Cameron Kaveney 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 credit of BIO 5100 and BIO 5101) 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.

• Schedule your First Committee Meeting, which will include each the four Preliminary Examination committee members who will be responsible for writing questions for your PhD written preliminary exam in Spring II as well as the outside committee member. 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.

• Students who are preparing for the written preliminary exam may enroll in BIO 6V10, Dissertation Prospectus Research for Spring II, though additional course work may be warranted. BIO 6V10 is full-time equivalent (1 credit=full time).

**Spring II (4th semester)**

• Coursework

• 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 1 week prior to the PhD written preliminary exam.

• Student must take the PhD written preliminary exam during this semester. The exam is typically held in May.

• 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 Cameron Kaveney 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)
- Schedule your Mid-Candidacy Committee meeting
- 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 Oral Exam form to Cameron Kaveney 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 I 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 Cameron Kaveney 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 5101 Graduate Scientific Communications (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 Cameron Kaveney 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 5101 Graduate Scientific Communications (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 Cameron Kaveney 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. See Master’s Thesis Approval Form in Appendix 1.

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 Cameron Kaveney 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 Cameron Kaveney 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@baylor.edu the MA-HP coordinator, for assistance.
- Register for courses prior to 15 May (incoming students). Send course list to Cameron Kaveney 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 Cameron Kaveney 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)
  - 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 Cameron Kaveney 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.
<table>
<thead>
<tr>
<th>MARIA BOTTAZZI (CMHD)</th>
<th>MYEONGWOON LEE (CMHD)</th>
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</thead>
<tbody>
<tr>
<td>PhD, University of Florida</td>
<td>PhD, Illinois State University</td>
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<td>Vaccine Development, Tropical Disease Biology</td>
<td><em>Developmental Genetics of C. elegans</em></td>
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<td>TAMAR E. CARTER (CMHD/EEO)</td>
<td>R. JASON PITTS (CMHD)</td>
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<td>Sensory Biology of Disease Vector Insects</td>
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<td>DWAYNE D. SIMMONS (CMHD)</td>
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<td>PhD, Harvard University</td>
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<td>BESSIE W. Kebaara (CMHD)</td>
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<td>PhD, University of Alaska-Fairbanks</td>
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APPENDIX 1: TABLE OF FORMS FOR THE M.S. AND PH.D. DEGREES.

Details on graduate school forms are available here,
https://www.baylor.edu/graduate/index.php?id=980858.

<table>
<thead>
<tr>
<th>Forms to be filled out by Graduate Student</th>
<th>Reason for Use</th>
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<tbody>
<tr>
<td>Graduate School Petition</td>
<td>for transferring MS degree credit</td>
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<tr>
<td>Announcement of Oral Dissertation/Thesis Defense</td>
<td>Required two weeks prior to MS or PH.D oral defenses</td>
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<tr>
<td>Approval of Final Dissertation/Thesis</td>
<td>Required alongside submission of final documents</td>
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<td>Doctoral Investment Form</td>
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<thead>
<tr>
<th>Forms to be filled out by Biology Faculty/Staff</th>
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<tbody>
<tr>
<td>Results of Preliminary Exam</td>
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<tr>
<td>Admission to Doctoral Candidacy</td>
</tr>
<tr>
<td>Result of Doctoral Dissertation Defense and Examination</td>
</tr>
</tbody>
</table>

Forms Questions?
Contact Alanna_Martinez@baylor.edu, or at 710-4610.
APPENDIX 2: TIMETABLE FOR THE DOCTOR OF PHILOSOPHY DEGREE, GRAPHICAL REPRESENTATION.
APPENDIX 3: BIOLOGY DEPARTMENT FORMS FOR CANDIDACY AND PERMISSION TO DEFEND

RESULTS OF THE ORAL CANDIDACY EXAM

Name __________________________ Date ______________________

☐ Unconditional Pass
☐ Conditional Pass
☐ Fail

If conditional pass is selected, detail the requirements including time for completion below.

Chair: ___________________________ ____________________________

Member: _________________________ ____________________________

Member: _________________________ ____________________________

Member: _________________________ ____________________________

Member: _________________________ ____________________________

Printed Name __________________ Signature __________________
RESULTS OF THE MID-CANDIDACY COMMITTEE MEETING

Name ___________________________    Date ___________________________

☐  Permission to Defend Granted – Unconditional
☐  Permission to Defend Granted – With Conditions
☐  Permission to Defend Not Granted at this Time

If permission to defend is granted with conditions, detail the conditions below. If publications are in the conditions, include the number and publication status required (e.g. in press vs accepted vs under review).

Chair: ___________________________    ___________________________

Member: ___________________________    ___________________________

Member: ___________________________    ___________________________

Member: ___________________________    ___________________________

Member: ___________________________    ___________________________

Printed Name    Signature