ZOOLOGY, M.A.

The Department of Zoology offers graduate work leading to the master of arts or the master of science and the doctor of philosophy in zoology. Facilities and staff are available for advanced study in a wide variety of zoological fields including aquatic and terrestrial ecology, conservation biology, cell/molecular/developmental and neurobiology, endocrinology, ethology, genetics, evolution and systematics, comparative physiology, and physiological ecology.

In addition to a broad range of well-equipped laboratories, research facilities include advanced microscopy facilities (http://www.microscopy.wisc.edu), limnological laboratories on campus (Lake Mendota) and in northern Wisconsin (Trout Lake), the University Arboretum, the Zoological Museum and a Molecular Systematics Laboratory.

FUNDING

Financial support may be provided through a limited number of teaching and research assistantships and by federal, industrial, and privately sponsored fellowships and traineeships. Graduate student support is available to all accepted graduate students and will be determined before arrival on campus.

REQUIREMENTS

MINIMUM DEGREE REQUIREMENTS AND SATISFACTORY PROGRESS

To make progress toward a graduate degree, students must meet the Graduate School Minimum Degree Requirements and Satisfactory Progress (http://guide.wisc.edu/graduate/#policiesandrequirementstext) in addition to the requirements of the program.

MASTER’S DEGREES

M.A., M.S.

MINIMUM GRADUATE DEGREE CREDIT REQUIREMENT

30 credits

MINIMUM GRADUATE RESIDENCE CREDIT REQUIREMENT

16 credits

MINIMUM GRADUATE COURSEWORK (50%) REQUIREMENT

16 credits

At least 50% of credits applied toward the graduate degree credit requirement must be in graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university’s Course Guide (http://my.wisc.edu/CourseGuideRedirect/BrowseByTitle).

PRIOR COURSEWORK REQUIREMENTS: GRADUATE WORK FROM OTHER INSTITUTIONS:

With committee approval, students are allowed to count no more than 14 credits of graduate coursework from other institutions. coursework earned five or more years prior to admission to a master’s degree or earned ten years or more prior to admission to a doctoral degree is not allowed to satisfy requirements. Typically committees will choose to cap coursework from another institution at a lower level than 14 credits, but this is a committee decision to be made on a case by case basis.

PRIOR COURSEWORK REQUIREMENTS: UW–MADISON UNDERGRADUATE

With committee approval, students are allowed up to 7 credits numbered 300 or above from their UW–Madison undergraduate career to fulfill graduate requirements. Typically committees will choose to cap coursework allowed from undergraduate careers at a lower level than the 7 allowed, but this is a committee decision to be made on a case by case basis.

PRIOR COURSEWORK REQUIREMENTS: UW–MADISON UNIVERSITY SPECIAL

With committee approval, students are allowed to count no more than 15 credits of coursework numbered 300 or above taken as a UW–Madison Special student. Coursework earned five or more years prior to admission to a master’s degree or earned ten years or more prior to admission to a doctoral degree is not allowed to satisfy requirements. Typically committee members will choose to cap the number of coursework taken as a University Special student at a lower level, but this is a committee decision to be made on a case-by-case basis.

CREDITS PER TERM ALLOWED

15 credits

PROGRAM-SPECIFIC COURSES REQUIRED

Required coursework is determined for each student individually by the student’s advisory committee.

OVERALL GRADUATE GPA REQUIREMENT

3.00

OTHER GRADE REQUIREMENTS

An average record of B or better in all work taken as a Graduate Student is required by the Department of Zoology (grades of P and S are for this purpose considered to be satisfactory at the B level; grades of Incomplete are considered for this purpose to be unsatisfactory if they are not removed during the following semester of residence).

PROBATION POLICY

The Graduate School regularly reviews the record of any student who earned grades of BC, C, D, F, or Incomplete in a graduate course (300 or above), or grade of U in research credits. This review could result in academic probation with a hold on future enrollment or in being suspended from the Graduate School.

At the department level, the chair, in consultation with the major professor and advisory committee, may determine that the student’s progress is unsatisfactory and so report to the faculty in closed session. If, after faculty review, the chair’s determination is considered justified, the student will be notified that tenure in the department is to be terminated at the end of the semester. If the student disagrees with the
judgment of the faculty, it shall be the student’s responsibility to show cause as to why the faculty’s opinion is not justified. Any student who is judged wanting in sufficient progress will be granted one additional probationary semester, at the end of which continuation in Graduate School will be denied unless by extraordinary initiative and application the student is able to persuade the faculty to reverse their decision.

ADVISOR / COMMITTEE
Every graduate student is required to have an advisor and a committee. To ensure that students are making satisfactory progress toward a degree, every student is required to meet with the advisor and committee annually to review progress. If a progress report has not been filed by May 1, a hold will be placed on student course registration.

ASSESSMENTS AND EXAMINATIONS
In the second semester of the first year, students must complete the Certification of Candidate for a Master’s Degree.

Typically the defense of the master’s degree occurs no later than the end of the student’s sixth semester. A master’s degree warrant must be requested from the department prior to the defense.

TIME CONSTRAINTS
It is up to the student’s committee to determine whether or not a student who has been absent for five or more consecutive years will lose the credits earned before the absence; that coursework may not count toward Graduate School credit requirements.

LANGUAGE REQUIREMENTS
To be determined by the advisory committee.

LEARNING OUTCOMES

KNOWLEDGE AND SKILLS

KNOWLEDGE
• Master fundamental skills in at least one of the broad subject areas represented in the Department of Zoology.
• Students will demonstrate understanding of major current and past theories, research findings, and methodologies and techniques in their area of concentration.
• Students will develop critical thinking skills. They will retrieve and examine scientific literature, evaluate evidence for and against hypotheses, identify knowledge gaps, strengths and weaknesses in existing literature, synthesize knowledge, and develop conclusions.

RESEARCH
• Students will complete an original research project in one of the broad subject areas represented in the Department of Zoology.
• Students will retrieve, evaluate, and interpret professional scientific literature and use this information to select and/or use the most appropriate methods for their own research project.
• Students will conduct research, analyze, and interpret resulting data. Students will prepare a thesis or research report describing their research project.

COMMUNICATION
• Effectively communicate in writing and orally.
• Students will write a clear and concise research report.
• Students will present research articulately and informatively.
• Students will have opportunities to engage in public outreach and education.

PROFESSIONAL CONDUCT

ETHICAL CONDUCT
• Students will have an understanding of professional and ethical responsibility.
• Students will be trained to use scientific rigor when designing experiments, collecting and analyzing data, interpreting and reporting results.
• Students will be trained in the ethics of publishing.
• Students will know and adhere to laws, regulations, needed permits and licenses, occupational health and safety standards.

CAREER PREPARATION
• Students will be provided with diverse training that will prepare them for a range of flexible and sustainable careers (e.g., academia, industry, government, science policy and administration, science commerce, science writing, law, and science education and outreach at all levels).
• Students will develop broadly applicable skills in critical thinking and problem solving.
• Students will have opportunities for teamwork, communication skills, and collaborations.
Faculty: Professors: Hardin (chair), Bement, Blair, Carpenter, Engels, Epstein, Fernandez, Gammie, Goldberg, Halloran, Ives, Karasov, Lee, Lindroth, Marler, Porter, Ritters, Stanley, Stretton, Strier, Turner, Vander Zanden; Associate Professors: Amann, Auger, Bleiweiss, Brunet, Currie, Damschen, Gratton, Grinblat, Hawks, Lee, Orrock; Assistant Professors: Coen, McIntyre, Payseur, Peery, Pool, Sharma, Wolman