March 4, 1992

BENJAMIN L. HART, Chair
Animal Behavior Graduate Group

SUBJECT: Guidelines for Completion of Ph.D. Degree and Arrangements for Qualifying Examination

REF: Letter 02/26/92, Hart to Curry

Dear Ben:

Thank you for providing me with a copy of the recent guidelines developed by the Animal Behavior Graduate Group. The "Completion of Degree" guideline provides a clear description of satisfactory progress towards degree and the "Qualifying Examination" guideline provides a good delineation of how arrangements should be made for qualifying examinations.

Because the guidelines do not materially change the degree requirements for the Ph.D. program, they do not need to be submitted to the Graduate Council for review and approval. You can therefore consider the guidelines approved. I do, however, have one question regarding the "Completion of Degree" guideline, item #2: Is a limitation of the filing fee period implicit in this description or will the filing fee period be determined on an individual basis for students? You might want to clarify this in the guideline.

Please give me a call if you have any further questions.

Sincerely,

DONALD L. CURRY
Executive Associate Dean

DLC/MJD

cc: J. Trevitt
February 26, 1992

DONALD L. CURRY
Executive Associate Dean
Graduate Studies

The attached guidelines concerning maximum time for completion of PhD degree and arrangements for taking the qualifying examination were sent to all faculty members of the Animal Behavior Graduate Group for comments. These guidelines are the result of lengthy deliberations of the ABGG Executive Committees of 1990-91 and 1991-92. No objections were returned by the faculty membership of the ABGG. The guidelines received unanimous approval from the Executive Committee. We are now requesting Graduate Studies’ approval before implementation of the guidelines which will be effective immediately upon your approval.

BENJAMIN L. HART, Chair
COMPLETION OF DEGREE

1. The Graduate Adviser will review every student’s progress every year during the Winter quarter. Serious problems that are discovered will, at the discretion of the Graduate Adviser, be brought to the attention of the Executive Committee. This committee, through the Graduate Adviser, has the option and responsibility to report the student’s progress to the Division of Graduate Studies at any time in the student’s career. Such a report can include the judgment that the student is not making satisfactory progress toward meeting the degree requirements, and can state the conditions that the student must meet in order to avoid a recommendation of disqualification (dismissal) from the program.

2. The normative time for completion of a degree is six years. After the fifth year in the program, a commitment for specifying the time within which all requirements must be completed will be negotiated individually among the Graduate Adviser, major professor and student. All commitments and subsequent changes thereto will be reported to, and subject to approval by, the Executive Committee. Not meeting the commitment conditions will be regarded as failure to make satisfactory progress.

3. When a student is judged not to be making satisfactory progress, the student and major professor will be asked to appear before the Executive Committee to discuss the reasons for the problem, and any conditions that must be met in order to avoid a recommendation of disqualification from the program.

4. Students who are not enrolled at UCD, not approved for Filing Fee Status or are not on Planned Educational Leave will be regarded as having discontinued their studies and withdrawn from the program. Such students will have to reapply for admission in order to reestablish their affiliation. Applications for readmission will be evaluated without prejudice or advantage using the same criteria as those employed for new applicants to the program. Readmitted students can be required to repeat, renew or upgrade some previously-met requirements such as undertaking course work, passing an oral examination, or submitting a new thesis proposal.
QUALIFYING EXAMINATION

Once students have completed all required course work and examinations, they should begin intensive preparation for a comprehensive oral Qualifying Examination on several subject areas, as indicated on the Application for Admission to Qualifying Examination and approved by the Dean of the Division of Graduate Studies. This examination is required by the Academic Senate, Division of Graduate Studies and the Animal Behavior Graduate Group. The members of the Qualifying Examination Committee are appointed by the Division of Graduate Studies after approval by the Executive Committee and receipt of recommendations by the group Graduate Adviser. In order to initiate the process of constituting a qualifying examination committee, a student must:

(1) in consultation with the student’s major professor, who will not be a recommended member of the examination committee, submit an Application for Qualifying Examinations (Form D2783 or its successor) to the group Graduate Adviser for endorsement, Executive Committee approval, and transmittal to the Division of Graduate Studies;

(2) submit a written request to the group Administrative Assistant for a specific date and time, as well as assistance in reserving a room, for the qualifying examination;

(3) accomplish (1) and (2), above, no later than 6 weeks prior to the requested oral examination date.

The group Graduate Adviser will not forward the petition to the Division of Graduate Studies until all 3 conditions, above, are met. The purpose of this policy is to ensure that the Division of Graduate Studies is given sufficient time to confirm and announce the membership of the qualifying examination committee, and that the appointed committee members will have sufficient time to become familiar with the student’s interests and preparation prior to the examination.

In the event that the student receives a judgment of “Not Pass” by the qualifying examination committee, the committee chair shall specify the maximum amount of time, normally within 6 months, but never exceeding 1 year, that the student will be allowed for purposes of retaking part or all of the examination or otherwise remedying deficiencies. This information shall be included in the examination committee chair’s written report of the examination results to the Division of Graduate Studies.
August 24, 1989

HUGH DINGLE, Chair
Animal Behavior Graduate Group

SUBJECT: Graduate Program Requirements in Animal Behavior
RE: Curry to Russell, 1/17/89

Dear Professor Dingle:

This memorandum is to confirm that the Graduate Council, at its meeting of May 2, 1989, approved the changes to the degree requirements in Animal Behavior. This was effective with approval of the Council; however, I apologize for not seeing to it that you were sent a separate memorandum. If you have any questions about this, please notify Associate Dean Curry or Laura Gardner in the Graduate Division who are in charge of retaining the permanent records.

Gerald F. Russell, Chair
Graduate Council

cc: D. Curry
    B. Crockett
    L. Gardner
The graduate program in Animal Behavior at Davis is an interdepartmental program in which faculty from several departments, schools, and colleges participate. The Ph.D. degree is offered according to Plan B of the Announcement of the Graduate Division with a specialization in one of three areas: 1) Ethology and the Evolutionary Basis of Animal Behavior, 2) Physiological Bases of Animal Behavior, 3) Behavior of Domestic Animals. All specializations will emphasize the adaptive and evolutionary aspects of animal behavior.

Undergraduate Preparation for Admission

The primary requirement for admission to the Graduate Group in Animal Behavior is a Bachelor's or Master's degree in a relevant discipline such as psychology, zoology, anthropology, physiology, wildlife biology, ecology, veterinary science, genetics, or animal behavior. In addition, at least one course from each of the following areas must be taken before admission into the program or before the end of the first year in the program:

- General Genetics (e.g., equivalent to Genetics 100)
- Statistics (e.g., equivalent to Psychology 103 or Statistics 102)
- Evolution (e.g., equivalent to Genetics 103 or Zoology 148)
- Comparative Animal Behavior (e.g., equivalent to Psychology 150, Wildlife and Fisheries Biology (WFB) 140; or Zoology 155)
- Systematic Physiology (e.g., equivalent to Physiology 110 or Zoology 142)
- Ecology (e.g., equivalent to Zoology 125, Environmental Studies 100, or Entomology 104)

Students will normally begin study in fall quarter following their admission to the program. Admission is contingent on the student being sponsored by a major professor.

Program of Study

A guidance committee to approve the courses to be taken will be formed in the fall quarter of the first year for every entering student. This committee includes the Graduate Adviser, major professor and one other faculty member of the group. Registration, completion of course requirements, formation of committees, and the initiative for scheduling examinations are the student's responsibility in consultation with the major professor.

Course Requirements

Required course work consists of the core courses and the required courses within the student's particular specialty area, with additional course requirements to be determined by the individual guidance committee.

The Graduate Adviser will be responsible for determining when a student's required course of study has been met. Courses may be substituted for those listed below with permission of the Graduate Adviser.
Required Core Courses

Comparative Psychology: Psychology 250
Statistical Analysis: Psychology 206 or Statistics 106 or Psychology 207 or Statistics 110
Scientific Approaches to Animal Behavior: Animal Behavior 201
Seminar in Animal Behavior: Animal Behavior 290
College Teaching: Education 341, Biological Sciences 310, or Psychology 390,

Specializations

In addition to the core courses, students must also complete course work and seminars in one of the areas of specialization. Substitutions must be approved by the Graduate Adviser.

ETHOLOGY AND THE EVOLUTIONARY BASIS OF ANIMAL BEHAVIOR

Required

Evolution and Population Biology
Two Relevant Graduate Seminars

Related Courses

Theory of Quantitative Genetics Animal Genetics 204
Advanced Biological Ecology Ecology 204, 205
Population Dynamics and Estimation WFB 122
Advanced Population Dynamics WFB 222
Population Ecology DES 121
Advanced Evolution Genetics 203
Population Genetics Genetics 105
Evolutionary Quantitative Genetics Genetics 106
Ecology and Community structure of Grassland & Savanna Herbivores Range Science 135
Evolution of Ecological Systems Zoology 149
Primate Evolution Anthropology 151
Ecology & Sociobiology of Primates Anthropology 154A
Ecology & Sociobiology of Primates-Methods Anthropology 154B
Physiological Psychology Psychology 108
Animal Learning & Motivation Psychology 134
Genetic Correlates of Behavior Psychology 251
Mammalian Biology and Ecology WFB 110
Biology & Management of Wild Birds WFB 111
Laboratory in Biology & Management of Wild Birds WFB 111L
Insect Behavior Entomology 121
Insect Structure & Function Entomology 101A
Insect Structure & Function Entomology 101B
## PHYSIOLOGICAL BASES OF ANIMAL BEHAVIOR

**Required**

- Neuroanatomy (Neurosciences) or Anatomy 201
- Physiological Psychology
- Histology
- Two Relevant Graduate Seminars
- Veterinary Medicine (VM) 421
- Psychology 208
- Anatomy 215

**Related Courses**

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<tr>
<th>Course Title</th>
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<tbody>
<tr>
<td>Neural &amp; Endocrine Control</td>
<td>Physiology 112</td>
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<td>Neurointegrative Mechanisms</td>
<td>Physiology 120A</td>
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<td>Selected Topics in Neuroendocrinology</td>
<td>Physiology 231</td>
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<td>Physiology of Endocrine Glands</td>
<td>Physiology 130</td>
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<td>Physiological Rhythmicity</td>
<td>Physiology 242</td>
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<td>Systemic Physiology Laboratory</td>
<td>Physiology 110L</td>
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<tr>
<td>Advanced Systemic Physiology Laboratory</td>
<td>Physiology 111A,B</td>
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<tr>
<td>Neurophysiology</td>
<td>Physiology 214</td>
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<tr>
<td>Neurophysiology Laboratory</td>
<td>Physiology 215</td>
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<tr>
<td>Insect Structure &amp; Function</td>
<td>Entomology 101A,B</td>
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<tr>
<td>Physiology of Fishes</td>
<td>WFB 121</td>
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<td>Sensory Processes</td>
<td>Psychology 129</td>
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## BEHAVIOR OF DOMESTIC ANIMALS

**Required**

- Behavior of Domestic Animals
- Behavioral Aspects of Animal Domestication
- Two Relevant Graduate Seminars
- Animal Science 105
- Animal Behavior 220

**Related Courses**

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<tr>
<td>Genetics and Animal Breeding</td>
<td>Animal Genetics 107</td>
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<td>Animal Ecology</td>
<td>Zoology 125</td>
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<td>Ecology &amp; Community Structure of Grassland &amp; Savanna Herbivores</td>
<td>Range Science 135</td>
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<td>Mammalogy</td>
<td>Zoology 136</td>
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<td>Mammalogy</td>
<td>Zoology 136L</td>
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<td>Ornithology</td>
<td>Zoology 137</td>
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<td>Animal Learning &amp; Motivation</td>
<td>Psychology 134</td>
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<td>Developmental Psychology</td>
<td>Psychology 112</td>
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<td>Mammalian Biology &amp; Ecology</td>
<td>WFB 110</td>
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<td>Biology &amp; Management of Wild Birds</td>
<td>WFB 111</td>
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<tr>
<td>Laboratory in Biology &amp; Management of Wild Birds</td>
<td>WFB 111L</td>
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<tr>
<td>Livestock and Poultry Production in Developing Areas</td>
<td>Int'l Agricultural Devel. 102</td>
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<tr>
<td>Apiculture</td>
<td>Entomology 119</td>
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<tr>
<td>Advanced Apiculture</td>
<td>Entomology 219</td>
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Preliminary Examination

The Preliminary Examination is a combined written and oral competency examination which is administered by the group to all students early in the Fall Quarter of their first year of residency in the program. The ad hoc examining committee consists of three faculty members selected yearly by the group chair and graduate adviser. The examination serves the triple function of evaluation, diagnosis, and remediation, with each of them given essentially equal importance. Its subject matter is distributed approximately as follows: evolutionary and ecological bases of behavior, 50%; physiological bases of behavior, 25%; behavioral ontogeny, learning, and behavior genetics, 25%. Performance on each section of the examination is evaluated as either pass or no pass. Examination performance as a whole is assessed as pass (the student passed all three sections), conditional pass (the student passed two of the three sections), or no pass (the student passed none or not more then one of the three sections). A conditional pass can be changed to a pass through successful completion of remedial work assigned by the examining committee. The examination or any part of it may be attempted no more than twice.

Qualifying Examination

The Qualifying Examination is an oral examination which is administered by the Graduate Division. It is not taken until all of the required course work is completed. It covers basic concepts in the field of animal behavior, statistical analysis, and research methods, as well as mastery of the student's area of specialization. The qualifying examination committee consists of five members appointed by the Graduate Division upon nomination by the group Executive Committee. The five nominated individuals receive the recommendation to the Executive Committee by the graduate adviser following consultation with the student and the student's major professor. A qualifying committee is not nominated until the major professor has informed the graduate adviser in writing that the student is prepared to take the examination. The major professor may be a member of the qualifying examination committee, but may not be its chair. The following paragraph concerning the qualifying examination is taken from the UC Davis General Catalog.

The Qualifying Examination is administered by a committee appointed by the Dean of the Graduate Division. The Examination is intended to demonstrate your critical ability, powers of imagination and synthesis, and broad knowledge of the field of study. Upon recommendation of the Qualifying Examination Committee, and with the approval of the Graduate Council, you may repeat the Examination one time. After successful completion of the Qualifying Examination, you are advanced to Candidacy for the degree. At this time a committee is appointed to direct you in your research problem and guide you in the preparation of the dissertation.
Teaching Training Requirement

A course in college teaching is required of all students (e.g., Education 341 or its equivalent). In addition, students are strongly urged to obtain at least 30 contact hours teaching in courses directly related to the subject of animal behavior. This may include assisting with laboratory or field study courses as well as giving lectures to undergraduates.

Research Activities

Preceptorship. Students are encouraged to participate in research as early as possible during the first year in residence. Participation may be pursued under the guidance of any faculty member of the group, not necessarily the student's major professor. Course credit for this activity may be earned through enrollment in Animal Behavior 299.

Dissertation. The doctoral dissertation constitutes the final degree requirement. It is based on original research carried out under the guidance of a major professor and two other faculty members.
Proposed Requirements for the M. S. in Animal Behavior

Students may be admitted to study in Animal Behavior for the Ph. D. only. Students concentrate their studies in one of three areas: (1) ethology and the evolutionary basis of animal behavior, (2) physiological bases of animal behavior and (3) behavior of domestic animals.

The M. S. may be awarded to students enrolled for the Ph. D. in Animal Behavior according to Plan II of the Graduate Division upon completion of the general requirements of the Graduate Division (36 units of upper division and graduate course work; at least 18 units in graduate courses in the major field, and no more than 8 of these units in course 299) and completion of the following program requirements:

1. Preparation: Completion of one course from each of the following areas prior to matriculation and no later than the first year of residency in the program:

- Ecology (e.g., UCD Environmental Studies 100 or Zoology 125)
- General genetics (e.g., UCD Genetics 100)
- Statistics (e.g., UCD Psychology 103 or Statistics 102)
- Evolution (e.g., UCD Genetics 103 or Zoology 148)
- Animal Behavior (e.g., UCD Psychology 150 or Zoology 155)
- Systemic physiology (e.g., UCD Physiology 110)

2. Core courses required of all students:

- Comparative psychology: Psychology 250
- Statistical analysis: Psychology 206, Psychology 207, Statistics 106 or Statistics 110
- Scientific approaches to animal behavior: Animal Behavior 201
- Seminar in animal behavior: Animal Behavior 290
- College teaching: Biological Sciences 310, Education 341 or Psychology 390

3. Courses pertaining to the three tracks (each student must complete the courses specified for one track):

- Ethology and the evolutionary basis of animal behavior:
  - Genetics 203
  - Two relevant graduate seminars (chosen with the advice of the guidance committee, which consists of the student's major professor, the graduate advisor, and one additional member of the Graduate Group in Animal Behavior)
Physiological bases of animal behavior:
Neuroanatomy: Veterinary Medicine 421A or Human Anatomy (Medicine) 281, 203, 253
Physiological psychology: Psychology 108
Histology: Anatomy 215
Two relevant graduate seminars (chosen with the advice of the guidance committee, which consists of the student’s major professor, the graduate advisor, and one additional member of the Graduate Group in Animal Behavior)

Proposed Requirements for the M. S. in Animal Behavior continued

Behavior of domestic animals:
Behavior of domestic animals: Animal Science 105
Behavioral aspects of domestication: Animal behavior 220
Two relevant graduate seminars (chosen with the advice of the guidance committee, which consists of the student’s major professor, the graduate advisor, and one additional member of the Graduate Group in Animal Behavior)

4. The Preliminary Examination will constitute the comprehensive final examination required by the Graduate Division for the M. S. Plan II. The Preliminary Examination is a combined written and oral competency examination that is administered by the group to all students early in the Fall Quarter of their second year of residency in the program. The ad hoc examining committee consists of three faculty members selected annually by the group chair and the graduate adviser. The examination serves the triple function of evaluation, diagnosis, and remediation, with each function given essentially equal importance. Its subject matter is distributed approximately as follows: evolutionary and ecological bases of behavior, 50%; physiological bases of behavior, 25%; behavioral ontogeny, learning, and behavior genetics, 25%. Performance on each section of the examination is evaluated as either pass or no pass. Examination performance as a whole is assessed as pass (the student passed all three sections), conditional pass (the student passed two of the three sections), or no pass (the student passed none or not more than one of the three sections). A conditional pass can be changed to a pass through successful completion of remedial work assigned by the examining committee. The examination or any part of it may be attempted no more than once.