

UNDERGRADUATE HONORS THESIS IN ANIMAL SCIENCE

ANIMAL SCIENCE 194H

COURSE DESCRIPTION:

Over a three quarter period, students will carry out a research project under the guidance of a faculty member. Upon completion, students will write a thesis and present a public seminar describing their research.

UNITS:

4 units per quarter, for a total of 12 units.

PREREQUISITES:

- ANS 100 (or NPB 101) and ABI 102 & 103 (or BIS 102, 103)
- Minimum cumulative GPA of 3.2
- Selection by Honors Committee

**PLEASE SEE ATTACHED INFORMATION FOR
ADDITIONAL DETAILS & APPLICATION
PROCEDURES.**

QUESTIONS?

Please contact
Animal Science Advising Center
1202 Meyer Hall
(530) 754-7915
Or
Professor Russ Hovey
2145 Meyer Hall
rchovey@ucdavis.edu (530-752-1682)

Guidelines for Completion

Entrance Requirements:

Enrollment in ANS 194H is determined by the Animal Science 194H Honors Committee. ANS 194HA, HB, and HC are 4 unit courses and can be taken in any order, including one summer session, provided attendance occurs in three consecutive quarters. The Honors Committee has the responsibility of approving the participation of the student's chosen mentor, a faculty member in the Department of Animal Science.

To qualify, student must:

1. Achieve senior status no later than the end of first quarter of enrollment,
2. Complete all prerequisite courses no later than the end of first quarter of enrollment,
3. Have a minimum cumulative GPA of 3.2.

Students must provide the Honors Committee with:

1. A letter of intent to enroll in ANS 194H, submitted no later than end of first week of instruction of initial quarter of enrollment. The letter must include:
 - a. Transcripts of all college and university course work (See Animal Science Advising Center for assistance in obtaining copies of transcripts).
 - b. A plan of study outlining an academic schedule for completing a project during three consecutive quarters, and completion of all prerequisite courses as required.
2. A project proposal prepared in consultation with a faculty mentor, submitted no later than end of third week of instruction of initial quarter of enrollment.
3. A letter from the faculty mentor indicating style and form of student supervision and schedule of student contact.

General Requirements:

1. Complete a thesis describing the results of the research by the end of the third quarter of enrollment.
2. Participate in a special ANS 194H seminar/discussion group as required.
3. Present a public seminar of the results of the research during the third quarter of enrollment.

Grading is deferred (IP, or In-Progress) until the three quarter sequence has been completed. The Honors Committee assigns final grades, with input from the student's mentor. Grade based on:

1. Performance during three quarters, based partly on comments of mentor.
2. Committee review of final thesis.
3. Participation in the special ANS 194H seminar/discussion group meetings.
4. Presentation of a public seminar on the completed research.
5. Honors Committee chair will have the CRN and assign a grade on behalf of the committee.

Attachment I:
Animal Science 194H Honors Committee

The Animal Science 194H Honors Committee is a standing committee consisting of a minimum of three (3) faculty members from the Department of Animal Science, and appointed by the Animal Science Master Adviser. One member will be designated as committee chair. Membership on the Honors Committee will be on a three-year rotation, with the exception that the committee chair may hold membership for more than one term.

The functions of the Animal Science 194H Honors Committee are to manage the Honors program to ensure high academic standards are maintained and students are treated equally and fairly. Specific responsibilities of the Honors Committee include:

1. Act as the selection committee for enrollment in ANS 194H
2. Review research project proposals
3. Review participation of faculty mentors
4. Offer a special ANS 194H seminar, as demand requires
5. Provide students opportunities to present a public seminar
6. Review student performance and assign final grades
7. Present certificates of completion at annual Department Spring Awards BBQ

**Attachment II:
Letter of Intent to Enroll in ANS 194H**

Submit to Animal Science 194H Honors Committee no later
than end of first week of instruction of initial quarter of enrollment

Name:

Major:

Anticipated Mentor:

General Area of Research:

Schedule of Study (Study must occur during 3 consecutive quarters);

Prerequisites to be completed during first quarter of ANS 194H

UC Davis - units completed:
cumulative GPA:

Other colleges/universities attended - Units completed:
Cumulative GPA:

Attach complete set of transcripts (See Animal Science Advising Center for assistance),

Signed: _____

Attachment III: Research Proposal for Enrollment in ANS 194H

Submit to Animal Science 194H Honors Committee no later than end of third week of instruction of initial quarter of enrollment

The research proposal must contain the following, in the order listed:

1. Title Page: with project title, student's name, mentor's name, and brief abstract of work.
2. Objectives Page: brief statement of specific objectives of research plus a time line showing the schedule of work relative to important milestones and that the project can be completed in three quarters.
3. Background: One to two page outline, based on a review of current scientific literature, of why the research is important, the present knowledge base for the research area, and what successful completion of the research will contribute.
4. Approach: Three to five page description of approach and techniques used to address the objectives of the project, including source of animals and their management if animals are to be used as research material.
5. List of Literature Cited.

Attachment IV: Faculty Mentor Participation in ANS 194H

To be completed by the Faculty Mentor and submitted to the Animal Science 194H Honors Committee no later than end of third week of instruction of initial quarter of student enrollment.

Name Faculty Mentor:

Name Student:

Brief statement of appropriateness of work:

Brief statement of appropriateness of research time line:

If not available all quarters, who will serve as mentor during your absence:

Signature: I agree to a commitment to full three quarters of supervision for the proposed research,

Signed: _____

Attachment V: Final Thesis for Animal Science 194H

Submit to the Honors Committee no later than the end of the last week of instruction of the third quarter of enrollment.

Format and Content:

The final thesis must follow the format of a scientific journal.

The usual sections of the thesis are:

Title Page: One page with names of student and mentor, and an abstract of results

Introduction

Materials and Methods

Results

Discussion

Conclusions

Literature Cited

Append: Tables and Figures as required

The thesis is expected to contain extended Introduction and Conclusions sections, greater than that normally found in a typical scientific paper. The intent of this requirement is to provide the student with an opportunity to examine the results with a greater degree of latitude than would be acceptable for a published scientific paper.

It is expected that the student will write the thesis, but receive extensive guidance and assistance from the mentor.

Public Seminar

Schedule a public seminar of the results of the research no later than the beginning of the final quarter of enrollment, in consultation with mentor and Honors Committee:

The seminar can be scheduled at either,

- a. The annual campus Undergraduate Research Conference, or
- b. The Animal Science Departmental Seminar.