

## **EARTH, ENVIRONMENTAL and PLANETARY SCIENCES**

### **GUIDELINES FOR HONORS**

The University specifies that a student who has a superior record in their concentration and who completes an Honors thesis may be awarded a degree with Honors. DEEPS departmental rules are summarized below, together with a timeline, and a link to university guidelines is provided on the last page.

Please note that students must take the initiative in asking to be considered for Honors, and in completing all of the various steps by the specified deadlines.

### **Honors in Earth, Environmental and Planetary Sciences**

Overview: Honors may be awarded to candidates for either AB or ScB degrees; the departmental requirements are essentially identical (see below for details), and include an Honors thesis completed during two semesters of GEOL1970 Independent Study (or one semester of GEOL 1970 and one semester of the equivalent course in a different department). ScB students are required to take one semester of 1970, and may count the second semester toward their elective concentration courses. AB students may take 1970 as one of their elective concentration courses.

The Honors requirements are more stringent than just the satisfactory completion of GEOL 1970. An Honors degree requires a strong academic record and completion of a high quality thesis, as judged by departmental faculty. Honors students take two semesters of 1970, sometimes in addition to research during at least part of the previous summer. A senior who is considering Honors should discuss this with their concentration advisor early in fall semester, to think about the balance of thesis demands with other coursework, extracurricular commitments, and time planning for post-graduation.

### **Requirements**

#### **1. Superior academic record in the concentration.**

In order to qualify for Honors, a student must have a superior academic record in their concentration, defined in part by obtaining a majority of A or S with distinction grades in concentration courses.

#### **2. Completion of an honors thesis and oral presentation**

An Honors thesis should demonstrate effort and scholarship beyond a regular thesis. This does not necessarily mean a longer paper, nor does it mean more lab work. Rather, the honors thesis should demonstrate fundamentally strong, original research similar to publishable papers in the field. In addition to the usual requirements for an Independent Study course (see separate sheet; note requirement for written proposal by last day of Drop-Add period), there are additional requirements, as specified below. (Please see timeline on p. 3.)

**(a)** An Honors project is supervised by a faculty member, usually in DEEPS, but occasionally in a different department such as EEB; in the latter case you must identify a faculty member in DEEPS who will serve as co-advisor and with whom you will enroll in GEOL 1970.

**(b)** During the fall semester of your 1970 course you should discuss with your faculty advisor the possibility of pursuing Honors and their expectations for what work that would entail. Make sure to discuss the faculty expectations for what you will write up and submit at the end of fall semester (for a grade).

**(c)** By the end of Drop-Add period in February you must submit a well-written ~two page document indicating your intention for Honors, including the project title and brief but thorough descriptions of:

the research question being addressed,

the methods being used,

any results to date,

the applications or broader significance of your research,

your estimated time table (weekly) for completion.

This document should be given to the faculty advisor and the DEEPS advisor if the main research advisor is in a different department, and to all the concentration advisors. (You are free to decide later that you do not wish to complete the Honors requirements, only the 1970 course.)

**(d)** Identify two additional thesis readers, and inform your concentration advisor who they are. Usually the readers will be other DEEPS faculty members (tenure track or research). If the main research advisor is in another department, one of the readers will be the DEEPS co-advisor, and the other should also be a DEEPS faculty member in most cases. If your primary research advisor and DEEPS co-advisor indicate that it would be helpful to your project for the second reader to be a faculty member outside of DEEPS, that arrangement is also an option. If your main research advisor is in DEEPS, then one of the two additional readers could be a senior graduate student or post-doc with whom you have worked. These readers will provide feedback to you, and provide feedback to the department on the quality of the thesis to assist in evaluating whether it is an honors thesis.

**(e)** Your written thesis must go through several drafts and revisions (see timeline). It should follow the format of standard scientific papers; see separate handout for guidelines and suggestions. (Theses from recent years are in GC028.)

**(f)** You must present your work orally to a general audience that includes the faculty advisor and the two readers, and at least one of the concentration advisors, who will also

assist in evaluating the quality of the thesis research. Presentations are normally during the last week of April (see timeline).

**(i)** It is your responsibility to identify a date and time (that your readers and concentration advisor are available), to reserve a room (with Pat Davey), and to make and post fliers a week in advance. It is common for two or three seniors who have similar research advisors and/or readers to present their theses in one longer session.

**(ii)** You should give a professional presentation, aimed at a general audience, of about 20 minutes, and allow ~10 mins for questions. It is imperative to practice your talk in advance, and get feedback from your main advisor and others. See separate sheet for suggestions.

**(g)** After your oral presentation, the faculty advisor and readers will let the concentration advisors know (in writing) if they agree that the thesis is of Honors quality. The concentration advisors will consider your academic record as well as the thesis work, and make the final recommendation for Honors to the University (and inform you).

**(h)** After your oral presentation, you will complete a final revision of the written thesis (commonly ~10-15 pages single spaced, plus figures), taking into account suggestions from the advisor and two readers, as well as points that came up in discussion after your talk.

**(i)** You should make one bound copy of the thesis for the department (give to Karen, to be placed in GC028); ask your advisor if they also would like a bound copy. (Financial support for printing costs is available; ask Karen.) Please send an electronic version to Pat Davey; verify with your advisor that it is OK for your thesis to be posted on the department website.

### **Timeline and Checklist**

(The dates below represent the latest date to accomplish the tasks. If you will be completing your spring semester remotely, all items below that imply on-campus actions will be replaced by their virtual equivalent.)

The dates below are for students completing their degree requirements in May. For those completing requirements in December, there will be equivalent dates in first semester; talk to your concentration advisor if you have any questions.

**End of drop/add period in September:** Turn in ~one page proposal for your fall 1970 research project to your faculty advisor (including your DEEPS co-advisor if your main advisor is in a different department or institution).

**End of drop/add period in February:** Declare your intention to pursue Honors, in writing, to your research advisor and your concentration advisor. Include: project title, and

a brief but detailed account of the research question, methods, results to date, anticipated broader implications, and a weekly outline of remaining work for second semester.

**End of second week in February:** In consultation with your research advisor, identify your two readers, and meet with them to ask if they are willing to serve in that role (read your draft thesis, supply you with written feedback, and attend your oral presentation).

**End of first week in March:** Give your research advisor a complete first draft of your thesis (text plus figures), so that you can get their feedback by the second of third week in March, and undertake a thorough revision before giving it to your readers.

**End of March (*hard deadline*) (a):** Give a copy of your revised thesis to your two readers and your advisor. **(b)** Identify a date and time for your oral presentation, in consultation with your advisor and readers and concentration advisor. **(c)** Reserve a room with Pat Davey. **(d)** Create an engaging flier to advertise your presentation and post/email it.

**Wednesday April 7<sup>th</sup>:** Give your oral presentation before Wednesday April 7<sup>th</sup>. Honors recommendations are due to the university by Friday April 9<sup>th</sup>.

**End of final exam period (Friday April 23):** Turn in your final revised thesis: One bound copy for the department, to Karen; one copy to your advisor; and send an electronic version to Pat Davey.

## **University Rules and Regulations for Honors**

Guidelines are available here:

<https://www.brown.edu/academics/college/degree/concentrations/honors>