

Department of Earth and Planetary Sciences

Yale University

**GRADUATE PROGRAM HANDBOOK
STUDENTS AND FACULTY**

OFFICE OF THE DIRECTOR OF GRADUATE STUDIES

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1 INTRODUCTION

This handbook provides a summary of the graduate program in the Department of Earth and Planetary Sciences (EPS) with information for both faculty and graduate students.

1.1 General Information

Calendars

Graduate School Academic Calendar: <https://gsas.yale.edu/academic-events>

Earth & Planetary Sciences News: <https://earth.yale.edu/news>

The calendar on this page includes the dates of all regularly scheduled Faculty and Departmental meetings and general departmental events.

Dates and deadlines for EPS-specific requirements are discussed in this document and outlined in both Section 2.2 and Section 2.3.

Information about major annual scientific conferences (including deadlines and dates) is discussed in Section 2.8.2.

EPS Undergraduate and Graduate Courses

The course listing for EPS undergraduate and graduate courses can be found at <http://students.yale.edu/oci/search.jsp>. Graduate courses generally follow the same semester schedule as undergraduate courses. Fall semester usually starts in the week prior to Labor Day (end of August) and ends in the middle of December. Spring semester starts in the middle of January and ends in May. Semesters include 13 weeks of classes, a 4-day reading period, and 4-day final-exam period.

Graduate Student Residence during the Academic Year

Graduate students enrolled for the academic year are expected to be in residence for 9 months, from registration in September until a week before commencement in May. Students are expected to continue working on their research during the summer months in order to ensure timely completion of the degree. Students engaged in summer fieldwork may leave the campus after their spring final examinations are completed.

Summer Registration

There is no summer registration process; however, if you intend to use the Yale facilities over the summer you should go to the FAS Registrar Office (246 Church St., 3rd Floor) to update your ID. You are eligible to do this if you were registered during the previous academic year or spring term.

Afternoon Coffee and Tea Break

The Department has an afternoon coffee break in the Departmental Common Room (KGL101), every weekday between 3:30 and 4:00 PM. All students, faculty, staff, and visitors are welcome to attend.

“Sacred Wednesday” and the Weekly Departmental Colloquium

By Department custom, no departmental courses, laboratories, or seminars are held on Wednesday afternoons. This arrangement is intended to provide a time for faculty meetings, committee meetings, and other departmental business.

The Department Colloquium is scheduled for at 4:00 to 5:00 p.m. every Wednesday of the semester, and is followed by questions, refreshments, and informal discussion. The Colloquium lecture is held in the departmental lecture hall on the first floor (KGL123). All graduate students, undergraduate majors, and faculty are expected to attend. The Colloquium Committee will typically organize a small group for dinner with the Colloquium speaker after the talk. The detailed receipt from the restaurant and the names of those attending must be submitted to the Business Office for reimbursement.

Scheduling Seminars or Special Talks

Classroom space in the Department is overseen by the Registrar, Becky Pocock. Rooms 116, 119, 123, 208A, 226, or the Department Common Room (101/102) are available for special talks or informal seminars, but the space must be reserved. Please allow two weeks advance notice so that the event can be announced in the weekly Departmental Schedule. Also, please plan enough time to arrange for any unusual requests, such as for special audio-visual (A/V) equipment or an A/V assistant.

1.2 Offices Relevant to the EPS Graduate Program

The EPS Department has several offices relevant to the graduate program: the Chairman's Office, the Office of Graduate and Undergraduate Studies and the Business Office. This section provides a brief overview of the function of each office, together with a list of who is in charge and where you can contact them.

Department Chair's Office

Professor Maureen Long, Chair, KGL 310, 203-432-5031,
Senior Administrative Assistant, KGL 203

Graduate and Undergraduate Studies Office KGL 201, 203-432-3161

Professors Alexey Fedorov (Spring 2026, KGL 117) & Jeffrey Park (Fall 2025, KGL 316), Director of Graduate Studies, 203-432-3153, dgs@eps.yale.edu

Professor Juan Lora, Director of Undergraduate Studies, KGL 106B, 203-432-2627,
dus@eps.yale.edu

Becky Pocock, Registrar, KGL 201, 203 432-3161, rebecca.pocock@yale.edu

Business Office KGL 301, 203-432-3164

Melissa Wojciechowski, Lead Administrator, KGL 301, 203-432-3164,
melissa.wojciechowski@yale.edu

Kara Newman, Operations Manager, KGL 304, 203-432-3165
Kara.Newman@yale.edu

Shirley Lin, Chair's Assistant & Academic Appointments Coordinator, KGL 203, 203-432-3124,
shirley.lin@yale.edu

Aida Rodriguez, Administrative Assistant, KGL 303, 203-432-3114, aida.rodriquez@yale.edu

The Chair's Office oversees the Department as a whole. The Business Office handles financial matters. The disbursement of stipends and wages for graduate students is handled by the Department Registrar. The registrar is also responsible for scheduling the use of classroom space in KGL by outside departments and organizations.

The Director of Graduate Studies (DGS) is the principal liaison between the graduate students, the Department, and the Graduate School. The DGS also oversees departmental graduate examinations, student evaluations, and overall graduate program development. EPS students are encouraged to contact the DGS Office on any matters relating to the graduate program.

Director of Graduate Admissions (DGA)

The DGA oversees all aspects of graduate recruiting.
Professor Bhart-Anjan Bhullar, DGA, ESC 262, 203-432-5008, bhart-anjan.bhullar@yale.edu

Yale Graduate School

<https://gsas.yale.edu/about/staff-directory>

Office of International Students and Scholars

<https://oiss.yale.edu/>
Luca Lipparini, Senior OISS Advisor
Luca.Lipparini@yale.edu

Yale Graduate Housing Office

<https://housing.yale.edu/graduate-housing/>

1.3 Committees Relevant to the EPS Graduate Program

Listed below are those committees that oversee various aspects and activities of the EPS graduate program. Committees are appointed during the summer by the Department Chair. Members for the current academic year are listed in **Appendix B**.

Graduate Admissions and Recruiting Committee

Director of Graduate Admissions (Chair)

Adcomm is responsible for graduate recruiting and processing and evaluating applications for the EPS graduate program. This committee meets in the Fall to plan recruiting, and as often as necessary in Winter to evaluate graduate applications and to prepare a recommended list for admission, which is presented at a Faculty Admissions meeting in February.

Colloquium Committee

This committee runs the Wednesday colloquia, queries faculty and students for names of potential speakers, invites speakers, arranges the colloquium schedule, and finds hosts to organize individual speaker's visiting schedules.

The Dana Club

The Dana Club, named after J.D. Dana, Yale Professor of Natural History from 1850 to 1895, is the official organization representing EPS graduate students. Officers are elected annually, and meetings and events are organized as needed.

Advisory Committees

Each graduate student has an Advisor and Advisory Committee. The function and responsibilities of the Advisory Committee are explained in a subsequent section. The current list of students and their committees is given in Appendix A. The relationship between faculty advisors and students is governed by the Yale EPS advising guidelines (a separate document attached to the Handbook).

2 REQUIREMENTS FOR THE PhD DEGREE

Students are admitted into the EPS graduate program with the expectation that they will pursue a PhD degree. Some students may finish with a Master's degree, either by recommendation of the faculty or by their own decision.

Students should plan on a PhD program of five years. Extensions to this timeline are possible, if funding support can be obtained. The first two years should be focused on topical areas of specialization and on building scientific research skills; the remaining years are largely dedicated to completing a major body of independent research. A successful transition at the end of two years is marked by the advancement of the student into candidacy. A PhD candidate is considered to have the breadth, talent, discipline, and scholarship needed to conduct independent research, and to prepare and successfully defend a Dissertation.

2.1 Outline of Requirements

2.1.1 Requirements for Admission to PhD Candidacy

Course work: Students will design a course of study with their Advisory Committee. Students are required by the Graduate School to obtain two grades of "Honors" before the end of their second year; the EPS department requires that one of these Honors be received before the end of the first year.

Research Discourses: Students will carry out two modest independent research projects, which will culminate in two documents, referred to as the Discourses, that are to be submitted at the end of year 2. One Discourse – the Major Discourse – is expected to be more developed than the other and will take the form of a full research proposal (and will constitute the Dissertation Prospectus; see below) while the other Discourse – the Minor Discourse – can be written as a proposal or article. Both Discourses will be presented at the Qualifying Presentation (see below) with the Major Discourse comprising most of the talk.

Qualifying Presentation: A student will give a 40-minute formal oral presentation on the Discourses (about 30 min on the Major and 10 min on the Minor). During a subsequent questioning period they will defend both Discourses and be queried on supporting background knowledge. The Major Discourse eventually satisfies the Graduate School requirement of the Dissertation Prospectus. The Qualifying Presentation and the subsequent defense and extended question period satisfies the Graduate School requirement for the Qualifying Examination. The Minor Discourse would ideally become a publishable article, and if appropriate can become a chapter in the Dissertation (i.e., if it is related to the overall thesis topic). In exceptional cases, the student may choose, after the Qualifying Exam and in consultation with their advising committee, to switch the Discourses and pursue a PhD based on the Minor Discourse.

2.1.2 Post PhD-Candidacy Requirements

Third Year and Beyond Annual Progress Meetings: Ph.D. students will present a summary of their Dissertation progress to their full Advisory Committee during the Spring terms of their third and following years. These meetings are not intended to repeat the qualifying exam, but rather are an opportunity for the student and committee to exchange ideas, to discuss research directions, and to help focus the student's scientific and career trajectories.

Dissertation Progress Reports (DPRs): The graduate school requires DPRs yearly for students in their 3rd and following years.

Dissertation: The student completes graduate school and receives the PhD after successful defense and submission of the Dissertation.

2.2 Abbreviated Schedule for the PhD Program

Provided below is a short overview of the schedule for the PhD program, including key deadlines and dates. Progress is denoted by terms, or semesters, in residence, with two terms per year; specific dates assume a normal start date of September in Term 1. In the following section (Section 2.3) is a more complete schedule.

Term 1

- Primary course work
- Initiate research for the Major Discourse, and the Minor Discourse.

Term 2

- Primary course work. At least 1 Honor grade is achieved by Term 2.
- Proposed topics/titles and advisors along with 2-3-page pre-proposal for both Major and Minor Discourses, including brief abstract, submitted to DGS office (after approval by Advisory Committee) by end of April.

Term 3

- Primary course work
- Preliminary Presentation of Discourses/Practice Exam in mid-to-late October or November.

Term 4

- Completion of primary course work. 2 Honors are required to proceed to the oral Qualifying Exam.
- Discourses due to the Advisory Committee and DGS office at least two weeks prior to the Qualifying Exam.
- Qualifying Presentation of Major Discourse/Oral Examination (in April); note that the interval between the practice exam and the qualifying exam should not exceed six months (excluding the period during which a student may be on leave).
- Faculty decision to advance student into candidacy during the last Faculty Meeting in May.

Terms 5 and 6

- PhD research
- Third Year Progress Meeting in the Spring Term (Term 6)

Terms 7 and beyond

- Annual Progress Meetings each Spring Term
- Preparation of the Dissertation

2.3 Complete Schedule for the PhD Program

Provided below is a complete overview of the schedule for the PhD program, involving tasks for both students and advisory committees. Progress is again denoted by terms in residence. Many of the details regarding various tasks are explained in subsequent sections.

Term 1

1. First two weeks of term: Meeting between student and Advisor
 - Advisor and Advisory Committee members approve the course schedule. Approval is done via email, with copies to the Registrar.
2. During term: Meeting between student and members of the Advisory Committee
 - Student, Advisor and Advisory Committee discuss possible Discourse research projects, including expectations and deadlines (see below).

Term 2

1. First two weeks of term: Meeting between student and Advisor
Progress to date with courses is assessed and Advisor and Advisory Committee members approve the course schedule. Approval is done via email, with copies to the Registrar.
2. End of term
 - Proposed topics/titles/advisors with brief (2-3 page) pre-proposal including abstract for both Major and Minor Discourses submitted to the Advisory Committee and DGS office by end of April (and before the 1st year progress meeting).
 - First Year Progress Meeting between student and members of the Advisory Committee to introduce and discuss Discourse research projects
 - Student Evaluation Faculty meeting
 - Minimum requirement of Honor grade is achieved

Term 3

1. First two weeks of term: Meeting between student and Advisor
Advisor and Advisory Committee members approve the course schedule. Approval is done via email, with copies to the Registrar.
2. Preliminary Presentation of Discourses & Practice Exam (Section 3.3)
 - Preliminary Presentation of the Discourses/Examination is scheduled for mid-to- late October or November. The student's full Advisory Committee is required to be in attendance. This examination serves as a practice trial and preparation for the Qualifying Presentation/Oral Examination. At least one week prior to the presentation, the student needs to update the discourse pre-proposals and send them to their Advisory committee. An oral presentation of the Major discourse is required, followed by a briefer presentation of the Minor discourse, followed by comments and general questions of the kind to be expected in the Qualifying Presentation/Oral Examination. The examining faculty will articulate the general research

areas on which the student is expected to answer questions, and thus broadly the kinds of questions also expected in the Qualifying Presentation/Oral Examination. In preparing for this event, the student should seek to demonstrate in-depth understanding of the intellectual content of the thesis research and its broader context. After the presentation, the Advisor summarizes what transpired, sends the summary to the DGS office, and gives the student feedback. If a student remains in doubt on any points raised during this event, they should seek out those faculty members for additional discussion to ensure a full understanding of what is expected.

Term 4

1. First two weeks of term: Meeting between student and Advisor
Advisor and Advisory Committee members approve the course schedule. Approval is done via email, with copies to the Registrar.
2. End of term
 - Submission of completed Discourses: Major and Minor Discourses due to the Advisory Committee and DGS office at least two weeks before the Qualifying Exam. Student has achieved a minimum of 2 Honor grades.
 - Qualifying Presentation (Section 3.4)
 - Scheduled for April by DGS office.
 - Student gives 40-minute presentation: 30 minutes on the Major Discourse, 10 minutes on the Minor Discourse. (The Major Discourse will typically develop into the PhD thesis). Other interested faculty and students are invited to attend the presentation, but friends and family are not.
 - The presentation is immediately followed by a brief period (no more than 5 minutes) of questions from the general audience.
 - Attendance in the closed examination session is required of the Advisory Committee and the DGS. Only EPS and invited external faculty may attend the “in-depth” question period.
 - The closed oral exam starts with in-depth questions from the Advisory Committee on the presentation. The exam questions can proceed into any general fundamental areas pertaining to the student’s chosen fields of concentration and in the general areas of the geosciences.
 - After the complete questioning period, the faculty present will discuss the student’s performance and progress and make a recommendation to the DGS regarding the student’s admission to candidacy for the DGS to present at the Student Evaluation Faculty Meeting.
 - After this Advisory-Committee discussion, the Advisor informs the student of the result, and that they will make the recommendation to the full EPS faculty for final approval; the Advisor gives the student more extensive verbal and written feedback.
 - The DGS will endeavor to keep the entire event to no more than two and a half hours.
 - Note on Graduate School Requirements: the Major Discourse satisfies the Dissertation Prospectus requirement; and the Qualifying Presentation/Oral Examination satisfies the Qualifying Examination requirement.
 - The interval between the practice exam and the qualifying exam should not exceed six months (excluding any period during which the student may be on leave).
 - Student-Evaluation Faculty Meeting
 - Evaluation of student progress and results of evaluation of the Major Discourse, Minor Discourse and the Qualifying Presentation/Oral Examination.
 - Faculty votes on whether to advance the student into candidacy for the PhD degree.

Year 3

1. Dissertation Progress Report (DPR):
 - The graduate school requires yearly reports for students in their 3rd and following years. Students should include a list of all papers (submitted, in press or published), meeting abstracts and funding proposals, as well as a brief statement of future plans.
2. Third Year Progress Meeting (Section 3.5):
 - A meeting with the Student, Advisor and Advisory Committee is required in the Spring term (Term 6) to assess timeliness of progress with the Dissertation research and to help focus the student's scientific and career trajectories, and encourage publication of research results as appropriate.
3. Student Evaluation Faculty Meeting:
 - Student progress is evaluated at the end of each year by the entire EPS faculty.

Years 4 and Beyond

1. Dissertation Progress Report:
 - The graduate school requires yearly reports for students in their 3rd and following years. Students should include a list of all papers (submitted, in press or published), meeting abstracts and funding proposals, as well as a brief statement of future plans.
2. Annual Progress Meetings (Section 3.5):
 - A meeting with the Student, Advisor and Advisory Committee is required in the Spring term annually to assess progress with the Dissertation research and to help focus the student's scientific and career trajectories and encourage publication of research results as appropriate.
3. Student Evaluation Meeting: Student progress is evaluated at the end of each year by the entire EPS faculty.
4. Years 5+: **Dissertation Defense and Submission** (Section 3.6): Dissertation must be submitted to the Graduate School by October 1 for graduation in December, or March 15 for graduation in May.

2.4 Residence Requirement

A student must be in residence in the Department for at least three years to fulfill the PhD residence requirement. The student is expected to have all degree requirements finished by the end of the fifth year. To stay in residence beyond the sixth year requires special approval from the Graduate School. When submitting a Dissertation, students "in absentia" do not need to apply for an extension as long as they have met all other requirements for the PhD.

A maximum of one year of transfer credit will be accepted toward the three-year residence requirement, but the transfer credit is also counted as part of the six-year residency limit. Thus, the transfer credit will reduce by one year the number of years of support provided by a University Fellowship. As a result, transfer credit is not recommended unless a student expects to finish the PhD degree one year earlier than normal. Request for transfer credit should be made to the DGS no later than the sixth week of the third term of study. Transfer credit is only granted to students who have earned Honors in at least two courses during their first two terms at Yale.

2.5 Advisory Committees

A tentative Advisor and Advisory Committee are appointed for each student upon entry into the EPS graduate program. The members are selected to match the student's stated research interests. The Advisory

Committee is charged with guiding the student in the selection of courses and research projects and ensuring that the student develops the depth and breadth of background needed for the Qualifying Examination and for PhD research. As the student advances in the graduate program, the committee members may also become involved, either directly or indirectly, in the student's research. The membership of the Advisory Committees, including the Advisor, can be changed at any time to meet the needs or best interests of the student. Such changes are initiated by the student in consultation with the Advisor or the DGS and are generally accepted without faculty discussion. Students are encouraged to become acquainted with the various research programs in the Department before making any extensive modifications of their initial Advisory Committee. The Advisory Committee can be constituted from faculty outside the EPS department, and even outside Yale; however, the Advisor and a majority of committee members must be from EPS.

2.6 Standing

The faculty evaluate each student's standing at Student Evaluation Faculty Meetings held in May of each year. Good standing requires satisfactory progress. A student whose performance is judged unsatisfactory will fall into poor standing and may be asked to finish with a master's degree or to leave the program.

The evaluation meetings consider all aspects of a student's record, including grades, independent study, research, the Preliminary Presentation of the Major Discourse/Practice Examination, the Qualifying Presentation/Oral Examination, and the annual review meetings. Other factors include progress to date, future plans, performance in courses, and comments by the Advisor and other faculty familiar with the student's work. The DGS informs all students in writing about their standing after each evaluation meeting.

2.7 Course Work

2.7.1 Areas of Concentration and Designing a Program of Study

During the first week of the first term, each student should meet with their Advisory Committee to choose four nominal areas of concentration, and to plan a tentative program of courses and research for the first year. Examples of some concentration areas are: atmospheric dynamics, climatology, geochemistry, geodynamics, geomicrobiology, ice physics, inverse theory, isotope geochemistry, mineral physics and rock mechanics, oceanography, paleontological and paleobotanical concepts such as anatomy of particular organismal groups, systematics, biogeography, macroevolution and taphonomy, petrology, sedimentology, seismology, structural geology, tectonics, etc. The choice of the concentration areas ultimately rests with the student and the Advisory Committee and can be changed at any time during the first year, subject to approval by the Advisory Committee. The first three terms of study help prepare the student for the research projects and the Qualifying Examination through a combination of courses, seminars, and independent reading. The student's courses should be planned to build expertise in the chosen concentration areas and to address any relevant weaknesses in their general academic background.

In the first two weeks of the term, all first- and second-year students must submit a final course schedule to their Advisor and Advisory Committee for approval. Approval is done via email with copies to the Registrar.

2.7.2 Courses and Grades

Course load

Students are expected to carry a full course load during the first three terms of study. A typical load is 2-3 graded courses (up through 600-level; see below) per term, not including any research course credits (EPS 690 and EPS 691); this may vary with the level and requirements of the courses chosen and with other commitments, such as teaching fellowships. Courses may be attended on an informal basis with the permission of the instructor, but “audits” have no formal bearing on the progress towards completion of the PhD.

Grades

Graduate grades in courses up to and through the 600 level are recorded as Honors, High Pass, Pass or Fail. Higher level courses, such as seminars (700 level), are graded Satisfactory or Unsatisfactory. The Graduate School requires Honors in at least two courses by the end of the second year. The Department expects at least one Honors in the first year to remain in good standing. Grades in any 500- or 600- level EPS course will count toward the Honors requirement. Honors in courses outside the Department can also be credited towards the Honors requirement if the course is a graded (500- or 600-level) course or an appropriate advanced level undergraduate course.

Incompletes

If a student does not complete a course, and if he/she and the instructor have agreed that an extension is appropriate, the student must submit a request for the Temporary Incomplete (TI) with the intended completion date, approved by the instructor and the DGS. Only one TI for courses taken in a single term is permitted. Temporary Incompletes received in an academic year must be converted to final grades by October 1 of the following academic year. If a grade is not received by the Registrar by this date, a TI will be converted to a permanent Incomplete (I) on the student’s record.

Evaluation

Quality of performance is a major factor in the evaluation of first- and second-year students. The Department expects students to attain a High Pass or better in their areas of concentration and to demonstrate a high level of competence in any term papers, research projects, or tutorials. A grade of Pass will result in a warning issued by the Department to the student. Two Passes or a single Fail are grounds for either (1) putting the student on academic probation, requiring a course of remedial actions to be designed by the Advisory Committee and DGS; or (2) finding the student in poor standing and releasing them from the program.

2.7.3 Independent Reading

Entering students should note that graduate study involves an increased focus on primary scientific sources. Thus, graduate students are expected to do self-directed reading in their areas of concentration. This reading is above and beyond reading assigned for courses. Students should consult their Advisor and Advisory Committee in assembling an appropriate reading list.

2.8 Miscellaneous Requirements and Expectations

2.8.1 Attendance and Presentation at Scientific Meetings

The Department places great emphasis on having all graduate students regularly attend and present research results at major scientific conferences. Each entering student is allocated a budget of \$2000 for conference-related expenses in their first and second year. Post-second-year students should ask their Advisor for support of conference-related expenses, and the DGS encourages faculty to honor those

requests. Students are also encouraged to solicit funds from other sources (e.g., applying for student travel grants available for particular conferences). In exceptional cases, the Department Chair will consider specific requests for conference support from post-second year students, but availability of other external funds will be a major factor in any decision made.

Students should consult the Business Office early in their planning of any conference-related travel. The Business Office can pay for conference fees and airline tickets in advance of the meeting, which will save the student the burden of having to file for a reimbursement of expenses. Students should also keep a careful record, including receipts, for any expenses to be reimbursed. A small cash advance can be obtained for some expenses; check with the Business Office for further details.

The major meetings most frequently attended by EPS students are

- The GSA (Geology Society of America) meeting in late October or early November; see <http://www.geosociety.org> for exact dates and deadlines.
- The AGU (American Geophysical Union) meetings: The Fall AGU meeting is in early to mid December and is typically the larger of the two AGU meetings. The Spring AGU meeting is in mid to late May; although the Spring AGU is typically a smaller meeting, recently the AGU has been (and will be) holding its spring meetings with other societies and has been referring to these meetings as “Joint Assemblies”. The Ocean Sciences Meeting (held every two years in February) is co-sponsored by AGU, the Association for the Sciences of Limnology and Oceanography (ASLO), and The Oceanography Society (TOS). See <https://www.agu.org/plan-for-a-meeting/agumeetings> for information about dates and deadlines.

There are many other meetings and workshops, and both the GSA and AGU websites have extensive (although not necessarily complete) information and calendars about meetings worldwide.

2.8.2 Field Experience

The Department encourages EPS students in relevant areas of research to acquire some field experience. Some students may find it important to get a formal introduction to Earth Sciences field research by attending a summer field course.

The Department has a tradition of sponsoring a two-week field trip. Previous trips have been to California, the Swiss Alps, the Apennines, the Aegean, Australia, Japan, Alaska and the Southwest of the United States. The trip is open to all EPS graduate students. Students are expected to play a major role in the selection, planning, and execution of the trip. Field trips provide an excellent opportunity for all students to get a broad introduction to the Earth Sciences.

3 PHD RESEARCH MILESTONES

Graduate school differs from undergraduate study in one significant way: gaining unique expertise by carrying out a body of original and independent research. Being a successful scientist often has less to do with performing well on class exams, and more to do with asking important but as-yet unanswered questions, designing a method to address these questions (be it experimental, observational or theoretical), carrying out the research in a rigorous manner, and writing up your findings in a publishable document. Publication is also paramount because science only truly works when research is tested and examined by rigorous peer-review; without passing the scrutiny and criticisms of your colleagues and competitors alike, your research efforts cannot be considered valid.

3.1 The Major Discourse Project

To prepare students for building their research skills, an important part of the first two years is getting started on and carrying out independent research projects, beginning in the first year. One such research project culminates in the Major Discourse and can (and typically will) grow into the PhD Dissertation. (A second such research project leads to the Minor Discourse and is discussed in Section 3.2).

- In the student's first year, they are required to work with their Advisor and Advisory Committee to identify the independent research projects leading to the Major and Minor Discourses. The student is required to submit a brief (2-3 page) pre-proposal for each Discourse by the end of the second term. However, this pre-proposal should represent a significant amount of reading of relevant literature and preparatory work. For this reason, the student is expected to identify and initiate the projects as soon as possible; waiting until the second term is not advisable. Pre-proposals are submitted to the student's Advisor, Advisory Committee and the DGS office by the end of April (before the first-year meeting between the student and Advisory Committee).
- In the 3rd term, in mid-October to mid-November, students will give their Preliminary Presentations of the Major Discourse Project, which is directly followed by a Practice Examination. This event is described in Section 3.3.

3.1.1 Structure and submission of the Major Discourse

- The Major Discourse is submitted to the DGS office in the 4th term by the end of March, after approval by the Advisory Committee.
- The Major Discourse should propose a Dissertation-sized research project spanning a period of 2-3 years. Therefore, this Discourse will be required to follow a proposal-style format (see below). The student will present the Major Discourse at their Qualifying Presentation/Oral Examination during April of the 4th term (Section 3.4) and this Discourse will serve as the Dissertation Prospectus.
- The Major Discourse should be structured in the style of a National Science Foundation (NSF) proposal; a basic outline of expectations for the proposal is as follows:
 1. A one-page project summary that succinctly explains the significance and intellectual merit of the proposal, the implications of preliminary work, an outline of the proposed tasks, and a discussion of intended outcomes and broader impact.
 2. An introductory section explaining in detail the scientific problem to be addressed, a survey of its historical foundations, and discussion of previous work. The student should use this section to both clearly state their working hypothesis and to demonstrate a thorough knowledge of the relevant literature. Students should be aware that they will be asked questions during the oral exam (see below) on the background and deeper foundations of the proposed work.
 3. A section discussing preliminary work and results. This should include a discussion of methods used (theoretical, experimental, etc.) in carrying out the work, a presentation of results and a discussion of implications/significance of these preliminary findings. This section should demonstrate the student's ability to carry out and present original research, and should also be used to show why the preliminary results are a "proof of concept" and how they inspire the future work to be carried out.
 4. A section on proposed work to be completed in a 3-year timeline. This should include a broader discussion of the further research necessary and why it is important to solve (or help solve) the overall scientific problem being addressed. It is often useful to list the

important remaining scientific questions that will be answered. Then the student should outline the proposed tasks with sufficiently detailed explanation of methods and techniques to convince the faculty of their proficiency in carrying out the proposed tasks. A discussion of the anticipated technical problems that might be encountered, and a justification of the chosen method(s) are expected.

5. A concluding section discussing the significance and ramifications of the planned research.
 6. This section should also include a discussion of the broader impact of the research, i.e., why and how it will have relevance to areas outside the immediate field of research and Earth Science in general.
 7. The final section should contain a complete bibliography of work cited.
- The total length of the Major Discourse should not exceed 15 pages (no less than 12-point font, single spaced, with no less than 1 inch vertical and horizontal margins) including figures and tables, but not including the bibliography. It is expected that the Major Discourse will be 12-15 pages.
 - The Advisor and other members of the Advisory Committee are responsible for reading and assessing the Major Discourse, and providing feedback to the student as necessary.

3.2 The Minor Discourse Project

The second, more modest independent research project will culminate in a document, referred to as the Minor Discourse, is also submitted and presented by the end of year 2. The Minor Discourse provides the student with greater breadth in research skills and experience.

- The Minor Discourse is advised by a faculty member other than the student's Advisor. It is typical that the Minor Discourse advisor be a member of the Advisory Committee.
- The Minor Discourse topic should be significantly different from and independent of the Major Discourse Project, although it can also be within the student's broad areas of expertise. The extent to which the minor project is adequately independent of the first is determined by the Advisory Committee. As an example of how close the two Discourse projects might be, a student studying a problem in atmosphere or climate dynamics for their Major Discourse might choose a Minor Discourse in physical oceanography or ice physics. Likewise, a student studying mineral physics in their Major Discourse might choose research in seismology or geodynamics for a Minor Discourse. Note that there is no limit on how different the projects might be; e.g., a student working primarily in isotope geochemistry or igneous petrology would be well served by a second project in mantle geodynamics or mineral physics. Or students primarily studying paleontology or paleobotany would receive significant breadth from doing a second project in biogeochemistry or geomicrobiology.
- The sequence of steps for the Minor Discourse is as follows:
 - Submission of a brief pre-proposal (2-3 pages) at the end of year 1, at the same time as the Major Discourse pre-proposal
 - Minor Discourse material is included in the Preliminary Presentation/Practice Exam (approximately ten minutes of the presentation) in Fall of year 2
 - Submission of the Minor Discourse by the end of year 2 at the same time as the Major discourse and prior to the Qualifying Exam; submission is, first, to the

- Advisory Committee for comments and then the final version (after revision as necessary) is submitted to the Advisory Committee and the DGS office.
- Approximately 25% of the Qualifying Presentation (10 min out of 40 min) concerns the Minor Discourse material and is open for inquiry during the exam/questioning phases.
- The Minor Discourse should be written and submitted in the style of an NSF proposal (Section 3.2) or a short publication-quality research paper.

3.3 Preliminary Presentation of Discourses: “Practice Exam”

In the 3rd term, in mid-October to mid-November, the student will give a Preliminary Presentation of their Discourses for 40 minutes, followed by approximately one hour of comments and questions from the faculty present. Most of the presentation (about 40 minutes) concerns the Major Discourse, for which more work is expected. However, the student should prepare about 10 minutes on the Minor Discourse material. The presence of the full Advisory Committee is required. The presence of the DGS is not required. The Advisor leads the exam. Other faculty members will be invited and may participate as well. The entire event serves as a practice trial and preparation for the Qualifying Presentation/Oral Examination during April of the 4th term (Section 3.4). Prior to the presentation, the student must update the discourse pre-proposals and submit them to their Advisory Committee and the DGS office.

- The preliminary presentation by the student of approximately 40 minutes must emphasize research already completed and problems to be addressed with further research. It is essentially what may be termed a PhD thesis proposal. Only discussing plans for future research is ill-advised since it is expected that students will have done a significant amount of preliminary work as a “proof of concept” exercise. In preparing for this presentation, the student should seek to demonstrate in-depth understanding of the intellectual content of the thesis research and its broader context. The contents of the research, both to date and planned, and how the entire body of work relates to broader concepts, should be presented with as much clarity as possible.
- Questions and comments from - and discussions with - the examining faculty in response to the student’s presentation will serve to articulate the general research areas on which the student is expected to answer questions, and thus broadly the kinds of questions also expected in the Qualifying Presentation/Oral Examination. The Advisory Committee, and possibly additional faculty, will comment on such parts of the presented research which they do or do not consider successful, and point out areas in which the student needs to improve by gaining greater depth and breadth of knowledge and experience. The event provides an opportunity for the student to fill in knowledge gaps and chains of logic. In sum, the examining faculty will do all they can to prepare the student for the upcoming research and for what they should expect in the Qualifying Presentation/Oral Examination.
- Feedback after the presentation: the Advisor will give the student verbal feedback, work with the Advisory Committee to prepare a written summary of what transpired, and send the summary to the student (with cc to the Advisory Committee and DGS office). If a student remains in doubt on any points that were raised, they should seek out those faculty members for additional discussion to ensure a full understanding.

- Students and Advisory Committee members are encouraged to decide on a viable scheduling window for the Qualifying Exam in the following Spring semester, and relay this information to the Registrar at the conclusion of the Practice Exam.

3.4 The Qualifying Presentation of the Discourses

The Graduate School has two formal requirements for admission to PhD candidacy: (1) each student must pass a Qualifying Examination that is oral and/or written; and (2) each student must present a Dissertation Prospectus to be approved by the faculty. In EPS, both requirements are completed with submission of the Major Discourse and a successful oral Qualifying Presentation, including the subsequent question period. More precisely, the Major Discourse represents the formal “Dissertation Prospectus”, while the Qualifying Presentation and the subsequent extensive question period represents the formal “Qualifying Exam”.

Students usually spend time during the 3rd term reviewing and consolidating their knowledge of topics that might be covered in the question period following the Qualifying Presentation. This integration of course work, independent research, and reading marks the culmination of formal instruction in the PhD program.

The protocol for the Qualifying Exam is as follows:

- Qualifying Exams are scheduled through the DGS office to occur during April of the 4th term. The duration of this event will be kept as close as possible to a total of 2.5 hours. The scheduling by the DGS office will reserve 3 hours per Qualifying Exam. The interval between the Practice Exam and the Qualifying Exam should not exceed six months, excluding any period during which the student may be on leave.
- All faculty, students and staff are invited to the oral presentation itself. However, only the Advisory Committee and the DGS are required to attend. The Qualifying Exam is moderated by the DGS.
- For the oral presentation, the student should give a 40-minute, well-organized summary of the primary features of the Discourses (30 minutes on the Major Discourse and 10 minutes on the Minor Discourse), including preliminary work completed and future plans.
- The oral presentation is immediately followed by a brief (approximately 5 minutes) question period from the general audience.
- After general questions, the DGS will excuse all members of the audience except the Advisory Committee.
- After the general audience is excused, there follows an extended question period on both discourses which is moderated by the DGS. Each examining faculty member (in turn) is allotted about 15 minutes to question the student.
- Students should be prepared to deliver concise answers and to illustrate their answers at the board using relevant equations, schematic plots, or diagrams. Students should not shy away from providing partial answers, but they should also be careful to indicate those parts of a question that they do not know or fully understand. If the answer to a question is not immediately known, it is useful for the committee to see a student explain how they might answer the question, e.g., by describing an experiment or trying to derive the answer from first principles. When answering

questions on their research topics, the students must express their own thoughts and defend their own work, and should not defer to their Advisor (likewise, the Advisor must not answer questions for the student). The faculty is interested in seeing evidence of good preparation, rigorous thought process, and a high level of scholarship.

- At the end of the extended question period, the student will be excused from the room and the faculty present will discuss the student's performance, both on the Qualifying Presentation and the two Discourses. The discussion will conclude with a vote and recommendation as to whether the student passes into PhD Candidacy. After the event the Advisor informs the student and provides verbal feedback. This is followed by written feedback from the Advisor (in consult with the full Advisory Committee) to the student and DGS office.
- The recommendation of the faculty present at the Qualifying Exam will be reported to the EPS faculty by the DGS at the end-of-year Student Evaluation Faculty Meeting. The faculty then decides by vote whether the student passes into PhD Candidacy.
- Students who are admitted into PhD Candidacy will be recommended to the Degree Committee at the Graduate School for a Master of Philosophy (M.Phil.) degree. This degree is considered a formal acknowledgment of advancement into PhD Candidacy. The Graduate Registrar will provide the student with the necessary paperwork to obtain an M.Phil. diploma.
- Students who are not admitted into candidacy after the Qualifying Exam may be encouraged by their Committee to complete an aspect of their research, which will comprise the Masters Essay or Thesis (Section 4). Given the student's preliminary work, the Masters Essay/Thesis should be readily completed before the end of the summer.

3.5 Third Year and Above: Annual Progress Meeting

- Ph.D. students will present a summary of their Dissertation progress to their full Advisory Committee during the Spring terms of their third year and each subsequent year unless the student has firm plans to defend in the Fall term of that year. These meetings are not intended to repeat the Qualifying Exam but are rather an opportunity for the student and committee to exchange ideas, to discuss research directions, and to help focus the student's scientific and career trajectories.
- Prior to each meeting, the student will submit to their Advisory Committee an update of their progress in the form of a summary of work performed to date, future work planned, and an approximate timetable for completion of research and thesis goals. In addition, the student should pass along any new publications or manuscripts. This is intended to streamline interactions with the committee. Only the full Advisory Committee is required to attend the Progress Meeting. The Advisor serves as the moderator. The meeting starts with a presentation by the student, no longer than about 30 minutes, followed by a question/discussion period. The length of the meeting will not exceed 1.5 hours, after which the student is asked to leave. The faculty remains to discuss the student's progress and standing and performance (see next item below). The results of that discussion are then reported to the student by the Advisor and a brief report is generated by the Advisor (in consultation with the Advisory Committee) and emailed to the student, Advisory Committee and DGS office, and reviewed at the next Student Evaluation Faculty Meeting.
- If, after the Third Year Progress Meeting, the student is broadly viewed in poor standing, the Advisor will schedule an additional Committee Evaluation, no later than six months from the

Third Year Progress Meeting, to examine the knowledge and capacity of the student to perform their research. An unsatisfactory performance during the Committee Evaluation is viewed as grounds for releasing the student from the graduate program.

3.6 Submission and Defense of the PhD Dissertation

The final step in completing the PhD degree requires the submission and defense of a Dissertation. The Dissertation Defense involves a formal oral presentation to the Department summarizing the major results of the Dissertation research. The Dissertation is formally reviewed by a Reading Committee composed of four members. By default, the Reading Committee is assigned to be the members of the student's Advisory Committee, but this arrangement is not required.

The following checklist outlines the various steps involved in preparation, submission, defense, and completion of the Dissertation. Additional important details are given at the Yale Graduate School of Arts and Sciences "Graduation Requirements" page (<https://gsas.yale.edu/resources/graduation-requirements>) and at the Yale University Registrar's Office "Dissertation Submission" page (<https://registrar.yale.edu/students/dissertation-submission>).

1. The Department strongly encourages students to publish their research before submission of the Dissertation. In this regard, the Dissertation can be viewed as a summary of all the student's published and unpublished work related to the Dissertation topic. Papers that are in review, in press, or published can be included verbatim, and in fact, may make up the bulk of the Dissertation. Note, however, that it is not acceptable to simply compile a series of papers; the Dissertation itself must read as a coherent document. The student must provide an Introduction and Conclusion so that separate pieces of work are clearly integrated. A footnote should be included indicating the source of published papers, the status of submitted manuscripts, and the authorship of each paper as published or submitted. The student's Reading Committee will be responsible for interpreting and implementing these guidelines and for judging the scope and suitability of the Dissertation manuscript.
2. In preparing the initial Dissertation manuscript, the student should rely primarily on their advisor to iterate towards a well-written manuscript. The student may call on other members of the Advisory Committee for help, but this interaction is distinct from the work of the Reading Committee. The Dissertation must be of substantial scientific value to warrant its consideration toward PhD; the student should consult with the Advisor as well as the Advisory Committee regarding this criterion, the concrete definition of which could vary among different disciplines. A copy of the Dissertation is emailed to the Advisor and Advisory Committee at least one month prior to the Defense.
3. The Dissertation Defense can be scheduled after submission of the initial Dissertation manuscript, but the date should be no sooner than 4 weeks after the submission date. Defenses can only be held during the academic year and no later than the last Student Evaluation Faculty Meeting of the term, in May. All Advisory Committee members must attend. If there are External Readers, they are encouraged, but not required, to attend. Departmental funds are available to cover travel expenses for External Readers. It is the student's responsibility to find a time that works for Advisory Committee members as well as the DGS and notify the DGS office about the scheduling.
4. All students who expect to defend during spring term, should notify the DGS Office in writing by the end of January. This request is intended to avoid scheduling conflicts during the busy months at the end of the academic year.

5. The student must provide the DGS Office with a short Dissertation abstract at least one week before the Defense date. The abstract, together with a general announcement, will be circulated and posted in the Department. The Defense is open to all who wish to attend. The Defense itself consists of a presentation, not to exceed 40 minutes, followed by a question session with the general audience. The Reading Committee, DGS, and other interested faculty will continue with further questioning and discussion of the student in a subsequent private meeting, about 1 hour long. The status of the Dissertation manuscript is discussed, with a focus on revisions needed for final acceptance. The results of the Defense are discussed at the next Faculty Meeting and a determination is made then if the Defense was satisfactory or not. Note that successful completion of the Defense is separate from acceptance of the Dissertation manuscript by the Reading Committee.
6. The student will take the Reading Committee's comments and suggestions and prepare a revised Dissertation manuscript. The student must consult the Readers to ensure that changes are suitable.
7. Upon completion of a final Dissertation manuscript, the student submits an electronic version to the Registrar of the Graduate School plus electronic copies for each member of the Reading Committee and the EPS Registrar. The Graduate School has specific requirements about the format and organization of a Dissertation as described here: <https://registrar.yale.edu/students/dissertation-submission>. Note that conflicts with these requirements may delay acceptance of the Dissertation. The Graduate School Registrar should be consulted about specific questions or any request for variance from the regulations.
8. An archived collection of specimens is an integral part of some Dissertations. Such collections must be properly curated before the Department will vote on recommendation of the degree. Students should consult their Advisor about specific requirements for any archived collection. It is the student's responsibility to ensure that the collection is approved by their Advisor and that a written statement of acceptance is provided to the DGS office.

After submission, the Graduate School sends out a request for Reader's Reports. Each Reader submits an independent assessment of the quality and suitability of the final Dissertation manuscript, together with a final evaluation: Distinguished, Very Good, Good, or Fair. The Reader's Reports are reviewed in a Faculty Meeting. If the Dissertation is voted as acceptable by the faculty, a recommendation is then forwarded to the Graduate School Degree Committee for award of the PhD degree.

The Graduate School makes an official award of degrees twice a year, in December and May. Students need to be mindful of relevant deadlines if they want their degree to be awarded by a specific date. The final Dissertation manuscript must be submitted to the Graduate School by October 1 for a December degree or by March 15 for a May degree. Registered students who submit Dissertations will remain registered until the end of the term and will retain all relevant privileges (e.g., use of the library privileges, health care coverage, etc.).

In planning for relevant deadlines, students should allow enough time for the Advisor and Reading Committee to do their work. A Dissertation is like any other manuscript in that it usually requires a number of iterations before it is ready for final submission. The Advisor is responsible for feedback on initial rough drafts. The Reading Committee will commonly request modifications as well, which in some cases may take one or two months to implement.

4 REQUIREMENTS FOR THE MSc DEGREE

The Department has no official Master's program, but students are allowed to complete a Master of Science (MSc) degree under special circumstances. Sometimes this option is offered when the faculty has determined that the student should not continue in the PhD program. Other times, this option may be selected by a student, but only when they are otherwise in good standing in the PhD program. Note that the transition from the PhD to the MSc program usually results in loss of any University Fellowship award.

4.1 Residence Requirements

The MSc in EPS normally requires two years of residence. If a student has unusual training or professional experience, the faculty may, upon petition by the student, reduce the residency requirement to a minimum of two terms, with a corresponding reduction in the course requirements. Students should consult the DGS about their eligibility for one-year residence.

4.2 Course Requirements and Grades

Two-year residency for the MSc degree requires successful completion of courses prescribed and approved by the Advisory Committee during the student's first four terms of PhD course work. As with the PhD program, a typical course load is 2-3 courses per term, not including research course credits and seminars, but this may vary depending on the level of each course and other commitments, such as teaching fellowships. Courses may be attended on an informal basis with the permission of the instructor but "audits" are not viewed as part of the student's course load, nor do they contribute to the MSc course requirement.

The advising schedule for an MSc student is the same as outlined above for PhD students. An Advisor and Advisory Committee are responsible for assisting the student in selecting an appropriate course and research schedule and approving that schedule.

Performance in course work is evaluated as Honors, High Pass, Pass or Fail, except in seminar courses and tutorials, which are graded as Satisfactory or Unsatisfactory. A minimum of one Honors grade must be achieved in a graduate-level course or an approved advanced-level undergraduate course by the end of the third term (second term for one-year residency).

Quality performance is a major factor in student evaluation. The faculty expects students to achieve a High Pass or better in their area of specialization and to demonstrate a high level of competence in related fields.

4.3 Research Thesis

All MSc candidates must complete a Research Thesis prior to the end of the final term of residency. The Advisory Committee will review and evaluate the Thesis and determine if the student has successfully completed the MSc requirements. The result is reported to the faculty, who vote on completion of the degree. If approved, a recommendation is then forwarded to the Degree Committee at the Graduate School for award of the MSc degree. A successful MSc candidate must submit a final copy of the Thesis to the DGS office.

5 FINANCIAL SUPPORT

5.1 Research Grants

Graduate research is funded from a variety of sources, with an emphasis on external grants. Although only faculty can be the principal investigator on most major research grants, the Department strongly encourages students to take a significant role in the preparation of grant proposals to fund their PhD research. Grant proposals are a central part of a research career, and they represent an important first step in the initiation of a research project. A proposal outlines the scientific question to be addressed, the research plan, the feasibility of the project, and the broader impact of the work. The goal is to convince colleagues that the research is important and deserves high priority for funding. In this regard, the Research Discourses prepared in the first two years should be well suited to pursue external funding.

In many cases, a student and Advisor will collaborate to prepare a proposal for submission to external agencies or foundations, such as the National Science Foundation, Department of Energy, American Chemical Society, NASA, NOAA, etc. In some cases, private companies will contribute research funds. Some groups welcome research proposals from students themselves. The funds from those sources are usually smaller (\$1000 to \$2000 per year), but this may be enough to support some critical fieldwork or travel. For instance, the Sigma Xi Society has an annual proposal deadline of October 15 and March 15 with awards announced 12 weeks from the deadline dates. The Geological Society of America has an annual deadline of February with awards announced in April.

5.2 Financial Aid

The Graduate School Bulletin contains a detailed statement on the kinds of financial aid available to graduate students and the university policies governing their distribution. Additional aid may come from external grants, but students should be aware that the availability of grant funds can change from year to year. The following is a general description of the current financial aid policies as applicable to EPS. The Graduate School Programs and Policies bulletin (<https://catalog.yale.edu/gsas/policies-regulations/>) is the authoritative source for all financial-aid policies.

5.2.1 University Fellowships

University Fellowships are granted for a twelve-month period and assume that the summer months will be devoted to full-time research or other appropriate academic activities. The University Fellowship includes tuition as well as a stipend. University Fellowships also come with a nominal teaching requirement (Section 6.1.1).

Students who hold a University Fellowship are allowed to receive additional income from an outside non-service award. All external fellowships must be reported to the DGS Office. During the academic year, students may supplement their University Fellowship through appropriate university employment, up to 10 hours per week.

Students holding external fellowships should be aware of the granting agency's policy on supplementation, as well as the Graduate School policy on combined awards stated in the Graduate School Programs and Policies (<https://catalog.yale.edu/gsas/policies-regulations/>).

Some fellowships are funded by gifts to the Department or the University. A student may be asked to provide a brief annual report to the Department Chair to be used in preparing a report to the donor.

5.2.2 Outside Fellowships

Students are strongly encouraged to apply for outside fellowships. The Graduate School provides information on various fellowships: <https://gsas.yale.edu/resources/external-fellowships-awards>.

Students are particularly encouraged to apply for the NSF Fellowship Program, which usually has an application deadline in November. This program accepts applications from U.S. citizens and nationals and permanent resident aliens who apply in the year prior to starting graduate school or in their first year of graduate school. The award of an NSF Graduate Research Fellowship brings three years of stipend support and considerable visibility to the student (<https://www.nsfgrfp.org/>).

5.2.3 Research Assistantships

Unlike other forms of financial aid, the funds for Research Assistantships (or Assistants in Research - "AR") come entirely from external research grants awarded to individual faculty. The work performed not only is part of the faculty member's research project, but also is the student's Dissertation research and therefore in satisfaction of a degree requirement. AR's tend to be project-oriented and are awarded to students who will contribute to the funded research endeavor. The principal investigators for the grant will determine how an AR is awarded.

A graduate student must be in good standing to hold an AR. Most awards are for a one-year period but can be renewed assuming that the necessary grant funds are available.

5.3 Paychecks and Income Taxes

All students must have a Social Security number within a few weeks of Graduate School registration. Instructions for securing a social security number are provided at registration. As soon as the number is assigned, the student must provide it to the University Registrar's Office and the DGS Office.

Paychecks are issued semi-monthly, on the 15th of the month (or the preceding Friday when the 15th falls on a weekend) and on the last weekday of the month. Note that Fellowship checks are not released by the Financial Aid Office until the student is fully registered.

Checks can be direct deposit or mailed to a specific address.

Students are responsible for determining their income tax status and for filing annual tax returns. Relevant tax information is provided at registration.

5.4 Funds for Graduate Student-Organized Symposia and Fund for Seminars and Colloquia

Symposia organized by graduate students provide extraordinary opportunities for intellectual interaction. The Graduate School will offer Graduate Student Symposium Awards, which will provide up to \$1,000 to support graduate student-organized symposia. The Graduate School will accept applications for these awards in the early fall, the applications will be judged competitively, and several awards will be made. Funding to support Departmental or program-based seminars and colloquia, where students and faculty could regularly discuss graduate student work, is also available through the Graduate School.

6 STUDENT TEACHING APPOINTMENTS

In April, the DGS Office asks all EPS instructors to submit requests for teaching fellows for the next academic year. At the same time, all graduate students required to take a teaching fellowship appointment (Section 6.1) are asked about their preferences for teaching. Students who apply for a teaching fellowship beyond the required teaching must get an approval from their Advisor.

The DGS office is responsible for placing students in specific TF positions. Students and instructors will receive notice at the end of spring term about the TF assignments for the next academic year. The DGS is authorized to make a limited number of changes to account for changes in enrollment or the revised plans of an instructor or student. Please try to make any requests for changes as soon as possible in order to avoid delays or problems with TF wages for the student.

6.1 Teaching Requirements

6.1.1 University Fellowship Teaching Requirement (UFTR)

Students supported on a University Fellowship are obligated to teach one semester at the TF10 level or to hold a curatorial assistantship (CA) for one semester for every year of fellowship support (the CA appointment is described below), up to six semesters total. In this document and in the DGS Office, this requirement is referred to as the *University Fellowship Teaching Requirement* (UFTR).

6.1.2 Academic Teaching Requirement (ATR)

The EPS department requires that all graduate students, regardless of how they are financially supported, successfully complete two TF10 equivalents, ideally in two separate years during the first two years of graduate education, or in exceptional cases one TF20; this is referred to as the *Academic Teaching Requirement* (ATR) since it is for gaining the educational experience of teaching rather than for fulfilling an obligation to the University for the University Fellowship. However, teaching completed while satisfying a UFTR will simultaneously fulfill the ATR (if all criteria are met).

6.2 Types of Appointments

The standard TF appointment in EPS is a TF10. Instructors must be careful not to subject students to a workload that exceeds that specified for their appointment (see estimated hours below). The job descriptions below were prepared by the Graduate School and provide a guide for determining the level of appointment.

6.2.1 Teaching Fellow 10

The responsibilities of a TF10 vary and include (a) grading and/or (b) a combination of the following: attending class, reading, advising undergraduates, offering discussion sections, helping to set up a lab, or assisting in the administrative details of a course. Approximate weekly effort: 6-10 hours.

6.2.2 Teaching Fellow 20

TF20 assignments are made only in exceptional circumstances and with permission from the DGS and Advisor. A TF20 typically leads and grades one discussion or laboratory section of up to thirty students and/or has a combination of the responsibilities described (a) and (b) in TF10. Approximate weekly effort: 15-20 hours.

6.3 Assigning Teaching Fellows

The DGS will: (1) estimate the number of teaching fellows (TF) needed for each course and select specific students to fill the available positions. TF-related business is initiated in the spring term when the recommended list of TF assignments for the next academic year is prepared. The number of available positions is ultimately controlled by the Graduate School, which bases its decision on available funds, prior course enrollments, and the amount and type of assistance needed. The Dana Club officers survey

students at the end of each spring term for input on their preferred TF assignments. For selecting students, the DGS is guided by the written preferences of the instructor and students, and by the requirement that students supported on University Fellowships (as opposed to research grants) must teach once during each academic year. The DGS is authorized to make a limited number of changes in teaching assignments to account for changes in enrollment or the revised plans of the instructor or student involved.

7 DEPARTMENTAL FACILITIES

7.1 Space and Access

7.1.1 Room Assignments

All entering graduate students are provided with office space, either in a single or shared room. Incoming students can get their room assignments from the Registrar on arrival.

7.1.2 Laboratory Facilities

Laboratory facilities are available for student use but only with the approval of the appropriate supervisor. The University requires students to undergo a training course in Laboratory Health and Safety before they start work in a laboratory. The Office of Environmental Health and Safety sends out Safety Bulletins listing HS training sessions. Bulletins will be posted outside Room 302 and can also be found on the OEHS homepage (<http://www.yale.edu/oehs>) under the heading Safety Publications. All the training seminars are held at the Office of Environmental Health and Safety Training Center in Room 15 at 135 College Street, unless otherwise noted.

7.1.3 Keys

An office key is issued to each entering graduate student. KGL front doors are locked at most times, since the pandemic lockdown, but may be open during weekdays 8am through 5pm. Students can use their ID card for key card access to the building outside of these hours.

7.2 Communications, Transportation and Supplies

7.2.1 Computers and Email

The Department Systems Programmer, David Rossman (david.rossman@yale.edu), can field questions related to Information Technology Services (ITS).

7.2.2 Telephones

Dial 9 for an outside line.

7.2.3 Mail

Each entering student is given a Departmental mailbox downstairs on the west side of the first-floor entrance area. Mail carried by the US Post Office should be addressed to the following:

[Your Name]
Department of Earth and Planetary Sciences
Yale University
PO Box 208109

New Haven, CT 06520-8109

Courier deliveries should be addressed to the following street address:

[Your Name]
Department of Earth & Planetary Sciences
Yale University
Kline Geology Laboratory
210 Whitney Avenue
New Haven, CT 06511

7.2.4 Postage

Letters relevant to official Departmental teaching and research activities can be left in the mail basket in KGL303 and postage will be provided. This is not to be used for personal mail, which includes requests for reprints, job inquiries, and job applications.

7.2.5 Office Supplies

Stationary, envelopes, mailers, paper tablets, pencils, transparencies, etc. are provided at no cost to graduate students for use in teaching and research activities. Graduate students are welcome to use Departmental stationery if the correspondence is related to the conduct of normal Departmental teaching and research activities.

7.2.6 Copiers

There are three copiers for student use: one is on the first floor (across the hall from KGL 112), another on the KGL side of the bridge to ESC (Environmental Studies Center) on the 2nd floor (through the Grad Student Wing); the other is on the third floor (across the hall from KGL 312). Entering students should see the business office for authorization to the copiers and information regarding cost.

7.2.7 Credit Card Charges

The Departmental credit card is held by the business office. Permission to use the card for professional charges must be sought through the business office after consultation with the advising faculty member. All university rules and regulations associated with credit charges apply.

7.2.8 Vehicles

Vehicles may be rented by the EPS Department for use during field trips. Students must hold a valid driver's license before they may operate a vehicle for University business and must take the University driver training course.

7.3 Problems and Assistance

7.3.1 Security

There have been occasional thefts in KGL. Students are advised to close and lock their office doors when they leave (even for a few minutes) always carry their keys and keep valuables out of sight or secured. Desktop and laptop computers are particularly attractive targets. They should be secured in

some way to protect from theft. Yale offers student organization and personal property insurance: <http://ogc.yale.edu/erm/other-programs/insurance-provided-registered-student-organizations>

Report thefts immediately to the Business Office during working hours and to Campus Police (2-4400) during the evenings and weekends.

7.3.2 Building Maintenance

Heating and cooling problems, and other building maintenance issues (leaks, burnt-out light bulbs, smoke, noxious fumes, etc.) should be promptly reported to the Business Office during working hours and to 2-6888 after hours.

7.3.3 Pets

No dogs or other domestic pets are allowed in offices or in any part of KGL and Peabody Museum.

Appendix A: Yale EPS Graduate Advising Guidelines

A productive, healthy relationship between faculty advisors and students is critical for the professional development of advisees, the completion of quality research, and the overall well-being of the university community. This document outlines key guidelines and responsibilities for both parties to cultivate a healthy advising relationship.

General Expectations for Faculty Advisors:

The role of the primary advisor is to provide guidance, mentorship, supervision, and support for the student during their time in the program. Advisors help their students develop skills, find relevant university resources, and produce quality publications. To that end, advisors should meet regularly with their students, and provide requested feedback and support in a timely fashion.

General Expectations for Student Advisees:

Students are responsible for learning and following department and university guidelines. They should make consistent progress in completing required dissertation milestones, respond appropriately to constructive feedback, and give advisors sufficient notice for letters of recommendation. Incoming students should reach out to their advisors early on to establish mutual expectations for communication, teaching, and authorship.

Feedback, both written and oral, is critical to student growth and dissertation success. Students have the right to thorough feedback on major assignments, grant/fellowship applications, meeting abstracts, pre-publication manuscripts, and all Ph.D. milestones required by the Graduate Student Handbook. Advisors have the right to receive documents well in advance of deadlines, with a reasonable timeframe for providing feedback.

Mediation: Even the best advisor-advisee relationships may face challenges. Students should discuss challenges with their advisors openly. Students and faculty alike are encouraged to contact the DGS if they encounter difficulties. The DGS can offer help and advice informally and can also undertake more formal mediation if desired and needed. Beyond the DGS, several other mediation resources are available and discussed in this document.

Open, frequent advisor-advisee communication is critical, and both parties are expected to maintain contact and decide on a regular meeting schedule. All students should be able to meet individually with their advisor at least once every two weeks if necessary. Issues with advisor-advisee communication should be discussed with the DGS.

Work-life balance is invaluable for both students and advisors. Advisors and advisees should establish work-life expectations, like vacation leave policy, at the start of their program. Students and advisors should prioritize physical and mental health. Mental health and counseling services are available through Yale Health free of charge for students.

RESPONSIBILITIES AT A GLANCE

Advisers

- Meet regularly with advisees.
- Provide guidance and written feedback.
- Provide mentoring and support.

Advisees

- Follow department guidelines.

Introduction

A productive, healthy relationship between faculty advisors and graduate students is critical for the professional development of graduate students, the completion of quality research, and the overall well-being of the university community. Codification of advising guidelines promotes equity and inclusion within each department by providing each student – especially those from underrepresented backgrounds and first-generation students – with an equal foundation for how best to navigate advising relationships during their time in graduate school.

Our EPS guidelines were developed by an ad hoc committee composed of the Director of Graduate Studies (DGS) and three current graduate students. They are based in part on material in the template for program-specific guidelines distributed by the Yale Graduate School of Arts and Sciences (GSAS) and the Graduate Student Assembly (GSA), and on advising guidelines for the English Department that were shared with DGSs as an exemplar.

This document outlines some basic responsibilities and expectations on both sides of the advising relationship. Graduate students and their faculty advisors share responsibility for developing productive and rewarding advising relationships and should be in regular conversation about their goals and expectations. We encourage advisors and students to use this guide, along with the EPS Graduate Handbook, as a tool for cultivating advisor-advisee relationships and for navigating the EPS Ph.D. program.

General Expectations for Faculty Advisors

Taking on Ph.D. student advisees is a significant responsibility, and one that faculty in EPS take seriously. Faculty members have several responsibilities in their roles as graduate advisors. They help students develop academic and professional skills and collaborate with them on research. They provide timely written feedback on work as appropriate. Advisors help students set reasonable and realistic schedules for research progress and written work. They engage in regular meetings with their advisees, on a mutually agreed upon schedule that includes frequent meetings with students in the first two years of their program (leading up to the qualifying exam) and often beyond. They encourage and model dedication to high-quality research, teaching, and advising for their students. Faculty advisors should be capable of directing students to departmental and university resources to support students through challenges, and they report acts of discrimination or Title IX violations that come to their notice as advisors. Furthermore, and importantly, advisors recognize that students in the EPS graduate program come from a variety of backgrounds and experiences and make as few assumptions as possible about what they want, need, or know; wherever they can, advisors should work to identify the “hidden curriculum” of graduate school and demystify it for their students.

Advisors help students understand the degree program’s requirements and support them in making timely progress. They acknowledge student contributions to research presented at seminars, colloquia, and conferences, and frequently co-author papers with students, most often with the students as first author. They respect and support students’ desired or chosen career paths, which may or may not be in academia, and they help students to acquire the professional skills necessary for the careers they hope to cultivate. They maintain a high level of professionalism in their work as advisors, abiding by all written Yale policies and procedures, including the Yale Teacher-Student Consensual Relations Policy. They do not impede students’ progress toward the degree to benefit from students’ proficiency as teaching or research assistants. They are attentive to signs of trouble with their advisees and assist students who may be experiencing some type of difficulty. Advisors interact with students, staff, and faculty colleagues in a respectful and professional manner, and they do not ask students (or others) for inappropriate personal favors. Finally, advisors remain aware that academic hierarchies may make it difficult or uncomfortable

for a student to set boundaries related to advising expectations; they remain critically attentive to their working relationships with their advisees.

Relationships with individual advisees are important; equally important is the culture of an advisor's laboratory or research group. Advisors should consider establishing a set of "core values" for their research groups that explain expectations about work produced, interactions with other research group members, etc. Advisors should consider explicitly articulating these core values, along with any laboratory or group policies and procedures, in a written document that is shared with research group members. All advisors should strive to build a productive and positive lab/group culture in which students and other trainees are empowered to ask questions and contribute, and all members are enabled to flourish and do their best work.

General Expectations for Student Advisees

To develop satisfying relationships with their faculty advisors, it is helpful for students to understand advisors' central role in graduate education, while also taking ownership for the direction and progress of their own scholarly work. Students should expect advisors to be responsive to requests for feedback, guidance, and advice, but should also be mindful of constraints on their time and willing to provide reminders of impending deadlines. Students play their part in fostering healthy advising relationships by recognizing that guidance from advisors should be taken seriously, although students should always feel free to ask questions, seek clarification, voice reservations, or suggest alternate approaches. They should recognize that faculty advisors are responsible for guiding their research and monitoring the validity and integrity of students' academic work. Students need to be aware of time constraints (and other demands) imposed on advisors by honoring agreed-upon deadlines for submitting work and avoiding last-minute requests for meetings, recommendation letters, and other time-intensive forms of support, to the extent possible. Students, along with advisors, are responsible for arriving at shared expectations about the frequency of meetings and forms of communication. Students should come prepared for advising meetings and must take the initiative to communicate with advisors as often as necessary to keep them informed of any factors that might affect their academic progress. They should consult with advisors, members of their advisory committee, the DGS, and/or others to resolve any problems in their working relationships. Students should recognize that their primary advisors, as important as they are, cannot serve in every role or meet every need, and students should seek to diversify and expand their advising and mentoring networks.

Graduate students are responsible for informing themselves of, and abiding by, departmental guidelines for the graduate program and other written documents such as the GSAS Programs and Policies bulletin and the Yale Teacher-Student Consensual Relations Policy. They are expected to fulfill the expectations of policies and requirements of the graduate program and request any necessary adjustments or accommodations if needed. They should seek clarification from the DGS, faculty, advisors, and/or staff if they are uncertain about the meaning or application of a regulation or policy.

Students maintain a high level of professionalism in their role as learners, scholars, researchers, and teachers. They maintain absolute integrity in taking examinations and in doing research, including the collection, analysis, presentation, and dissemination of data. They respond openly to fair and constructive feedback. They give advisors sufficient time to read and comment on works in progress and give due notice for requesting letters of recommendation or similar forms of support. Students are expected to interact with fellow students, staff, and faculty in a professional manner to create a safe, inclusive, welcoming, and respectful workplace.

Guidelines for Primary Advisors/Advisees

General information

Every entering graduate student is assigned a faculty advisor or advisors upon admission to the Ph.D. program. These pairings can be changed depending on individual preferences and how students' interests evolve. The role of the advisor is to provide guidance, mentorship, and support for the student during their time in the program and to supervise their research. Advisors are expected to meet regularly with their students, including during sabbatical leaves. If a faculty member is unavailable due to a sabbatical or parental leave, then a temporary advisor may be designated during a leave.

Advice for incoming students

It is beneficial for incoming students to reach out to their advisors prior to or just after their arrival at Yale with any questions about the program, their plans for coursework, or life in the department. Advisors should plan to meet with new advisees as early as possible at the start of the fall semester, and certainly no later than the end of the registration period, to confer about course selections and other plans for the academic year.

The following list of questions can be used to establish productive channels of communication and work processes. We recommend that students and advisors review this list together at the beginning of the advising relationship to facilitate conversations about how to work together most effectively.

1. What is each party's preferred mode of communication (e.g., email, phone call, video chat, in person, text, etc.)?
2. What is each party's expectations for the student's weekly work schedule (days, times of day, etc.)? How should the student handle vacation time (e.g., is notice needed)?
3. What is each party's expectation of the student's time to degree?
4. What are each party's expectations regarding the student's conference attendance and funding for conferences?
5. When the student collaborates on work with others, what are the advisor's expectations regarding the advisor's role in that work and subsequent authorship?
6. What is each party's approach to authorship norms?
7. What are the norms in the student's subfield and/or in the advisor's research group around a typical number of publications by students before graduation?
8. What are the advisor's expectations for the student's research progress during semesters in which the student has to fulfill other requirements (classes, teaching, qualifying exams, etc.)?
9. What professional development programs (writing, teaching, outreach, etc.) is the student interested in participating in?
10. What are the student's careers goals? What are the career paths that the advisor feels equipped to advise?

Communication and meetings

Student and advisor pairs are expected to maintain open communication with one another about the status of research projects, major milestones, and concerns. We encourage first- and second-year students to meet with their advisors weekly, and many students beyond the first two years may benefit from standing weekly meetings as well. While student-advisor pairs may decide on a regular meeting schedule that works for them, **all students have the right to meet with their advisor in a one-on-one setting at a minimum of once every two weeks if desired.** While of course occasional cancellations will happen, advisors and students should make every effort not to regularly cancel or significantly postpone meetings. Should issues arise regarding scheduling meetings with an advisor, students should contact the DGS.

Students are encouraged to keep a record of the topics discussed during advisor meetings. To facilitate open communication, students may want to email a memo of the meeting to their advisor afterwards to minimize confusion about student expectations and track progress. Emails may include the topics discussed during the meeting and any expectations the advisor may have for the student, and *vice versa*.

Student and advisor meetings can take place in a variety of settings, ranging from the office to a coffee shop. The advisor should not substitute individual meetings with group lab meetings. Advisors should keep meetings with students professional and avoid favoritism in terms of assigning projects or resources made available to students among members of their research group. If there is ever a question about the appropriateness of a meeting topic or location, or if favoritism appears to be affecting student progress, the student should contact the DGS.

Minor Discourse Advisors and Advisory Committee Members

During the first two years of the graduate program, students will have regular contact with their minor discourse advisors and advisory committee members, in addition to regular meetings with their primary advisors. Students should select a minor discourse advisor and pick a minor project no later than the spring semester of their first year. Regular progress meetings with the minor discourse advisors are strongly encouraged over the course of the minor project; many advisor-advisee pairs find it beneficial to meet weekly. As with the major project, students have a right to expect regular meetings and feedback on the progress of the minor project; students should expect substantive feedback on discourse proposals and documents, as well as any publications based on minor projects.

A tentative advisory committee is assigned for each student at the beginning of their program. Students should be proactive in contacting members of their advisory committee each semester during their first two years (via email or, preferably, in person) to discuss their scientific interests, project plans, and coursework selection. After qualifying exams, the main avenue for contact with advisory committees is through required yearly committee meetings. Students are strongly encouraged to take advantage of their advisory committee members' advice and expertise as their projects and thesis research develop. Involving advisory committee members as research progresses is a great way for students to leverage the broad scientific expertise we have here in the EPS during their time here. Members of the advisory committee can be changed at any time during a student's course of study by mutual agreement between the student and the primary advisor; students should email the DGS, with cc to the departmental registrar, to make changes.

Work-life balance expectations

Advisees are encouraged to discuss work-life expectations, such as vacation leave policy, with their advisors at the start of their program. Advisors should support students to set reasonable boundaries, establish nourishing work-life balances, and take formal vacation. The survey listed under "Primary Advisors" can help to articulate these expectations.

Students and advisors should prioritize their physical and mental health. Mental health and counseling services are available through Yale Health free of charge to students.

Tips for maintaining a healthy work-life balance:

1. Identify your peak productivity hours.
2. Consider creating a schedule that includes work and personal time.
3. Set aside at least one day a week where you don't do any work.
4. Separate your work and home spaces by leaving research materials at your office.

5. Exercise. (Very important! Long walks in nature count as exercise, too.)
6. Cultivate hobbies and other non-academic pursuits.
7. Communicate with friends, family, and mental health professionals.

Faculty and students should practice mutual empathy and compassion, recognizing that changes in individual circumstances (e.g., personal or health-related) may mean that an advisor or student is unable to meet usual expectations for limited periods of time. Open communication should be the norm in these situations.

Funding

Graduate students in the EPS department are guaranteed funding, including stipend, tuition, and health insurance, through completion of the program assuming satisfactory progress. The EPS department also provides an additional \$2000 in travel support for each student, generally used in their first two years. Even so, students may find it advantageous to apply for additional grants or outside fellowships to support their research. Grant funds can help pay for research supplies, specimens, field work, and travel to and from workshops and conferences. In addition, they can help students build their CV, by showcasing their ability to fund their own research.

When applying for grants or fellowships, students should communicate with advisors early and often. Advisors are a critical resource for helping students to decide which grants and fellowship opportunities are worthwhile, and how to craft an application. Students should ask advisors to review and approve grant and fellowship application materials before they are sent. Many grant and fellowship applications also require recommendation letters from advisors and/or other faculty members. Students should give faculty members at least two weeks' notice to write recommendation letters. It is the responsibility of the student to let faculty members know about deadlines for grant applications and recommendation letters, send them all necessary submission information (e.g., links to submission portals), and send them consistent reminders to submit letters / feedback. It is the responsibility of advisors and other letter writers to give students timely feedback and submit letters of recommendation on time.

Feedback

Students should expect feedback on written assignments, grant/fellowship applications, Ph.D. milestones required by the Graduate Student Handbook, and documents such as meeting abstracts and pre-publication manuscripts. This includes the Pre-Proposal, Discourse Documents, and thesis chapters. We encourage students to discuss written feedback expectations with their advisors in advance, including reasonable timelines and the form that feedback should take for different types of documents. Though expectations, may vary with the length and purpose of the document, students should aim to give primary advisors and other committee members at least two weeks' notice when they request feedback. For example, if a student requests feedback on a pre-proposal from an advisor, and a student needs a week to incorporate that feedback, a draft should be sent to the advisor at least three weeks before the deadline. Students have the right to thorough feedback on proposals, discourses, manuscripts, abstracts, and application drafts; advisors have the right to receive documents well in advance of deadlines and with reasonable and mutually agreed upon timeframes for providing feedback. In addition, students should expect feedback from all faculty co-authors on paper manuscripts and presentation abstracts. Please note that the same timing guidelines apply.

Mediation

We strive for constructive, supportive, honest, productive, and rewarding advising relationships in the EPS department. However, problems or challenges may sometimes arise, and even the best advisor-advisee relationships may hit bumps in the road. Both students and faculty are advised to be proactive if challenges arise, and to discuss challenges openly and honestly with each other, rather than letting problems fester. Advising relationships are most likely to be successful if both parties are open to feedback and constructive criticism, and if both students and faculty are willing to discuss any problems honestly in a spirit of mutual growth, empathy, and support.

The DGS is an excellent resource for students and faculty who are experiencing challenges with advisor-advisee relationships. Students are encouraged to contact the DGS if they encounter difficulties with their advisors; the DGS can offer help and advice informally and can also undertake more formal mediation if desired and needed. Similarly, faculty are encouraged to contact the DGS about advising challenges; again, both informal discussion and more formal mediation is available. Advisor-advisee pairs may decide together to work with the DGS to mediate issues, and this is strongly encouraged. Other resources include the department chair, advisory committee members, the Yale Graduate School of Arts and Sciences Dean's Office, and the MacDougal Fellows and Office for Graduate Student Development and Diversity (OGSDD) Fellows peer mentoring programs for students.

Professional Development and Job Market Advising

Graduates of the EPS Ph.D. program go on to a wide variety of careers, and our alums are currently employed in academia, government, and the private sector. Yale EPS alums are represented in faculty positions (at research institutions, primarily undergraduate institutions, and community colleges), at museums, in government agencies such as the USGS and national laboratories, in various non-profits, in private-sector roles such as consulting, data science, and the energy industry, and in science policy positions. We aspire to train exceptional scientists who leave our program with the potential to become leaders in their chosen fields, whatever that career path may be.

Students are encouraged to discuss their career hopes and plans with their advisors (both primary advisors and advisory committee members) early on in their graduate careers, although many students may find that their career plans shift over time. Open, honest, constructive, and supportive communication between students and advisors about career aspirations is essential and should take place early and often. Successful graduate advising requires diverse and expansive notions of career success, and both students and their advisors should maintain openness to imagining and pursuing a range of satisfying outcomes for post-Ph.D. work and life. Students should consider setting up designated meetings with advisors and other mentors to discuss career plans, ideally once a year in the later part of the Ph.D. program. While primary advisors can and should play a primary role in providing advising and support in the job search, students are encouraged to seek out other avenues for additional advice and mentoring. The DGS is always available to talk to students about career paths and help students find career resources. Members of advisory committees and formal and informal mentors both within and outside the department are also great resources. By default, faculty members are more knowledgeable about academic careers than other paths, but all faculty should be equipped to have constructive and supportive conversations with students regardless of their chosen career path. Furthermore, faculty are encouraged to work with students to help them find the advice and support they need to navigate their chosen career path, even if the faculty themselves cannot provide knowledgeable advice for all possible career choices.

In addition to the support provided by advisors and members of advisory committees, students should seek out support, resources, workshops, and consultations available outside the department, most notably through the Yale Office of Career Strategy (OCS).

APPENDIX B

2025-2026 Dana Club Leadership and Committee Membership

Dana Club

Gareema Dhiman
Olivia Gadson
Jennifer Kosty

Committee on Teaching Fellows

Jeffrey Park, DGS (Fall)
Alexey Fedorov, DGS (Spring)
Juan Lora, DUS
Gareema Dhiman
Olivia Gadson
Jennifer Kosty.
Becky Pocock (Registrar)

Graduate Admissions and Recruiting Committee

Director of Graduate Admissions (Chair): Bhart Anjan Bullar
Daman Grewal
Jordan Wostbrock
Lidya Tarhan
Elizabeth Yankovsky

Colloquium Committee

Lidya Tarhan (Chair)
Students TBD