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Quick Reference for Current Ph.D. Students

♦ Department contacts

♦ Key administrative personnel

Graduate Advisor / Vice-Chair for Graduate Education: M. Scott Shell

Graduate Affairs Committee: M. Scott Shell (chair), Songi Han, Arnab Mukherjee

Graduate Program Coordinator: Erica Diaz

Chair of the Department: Rachel Segalman

Vice-Chair for Undergraduate Education: Todd Squires

♦ Other contacts

Computer accounts
  • see the College of Engineering website under ECI (Engineering Computer Infrastructure)

Employment – appointments and paychecks
  • Jordan Boncquet

Financial Aid, Work Study, TA Loans
  • Financial Aid Office, South Hall

Keys and room reservations
Federal Express, UPS, mailing labels, Xerox key operator, faxes, etc.
  • Graduate Program Assistant

Purchase orders (GSR’s)
  • Michelle Fitzgerald

Students Services – registration, petitions, policies and procedures, general student concerns and questions, degree checks, graduation
  • Erica Diaz – general items
  • Graduate Affairs Committee - petitions of exception, etc.
  • Graduate Division in Cheadle Hall – Graduate Division forms and requests
A welcome to new students from the Graduate Advisor

Welcome to our department and program in Chemical Engineering at UCSB. Your experience as a Ph.D. student will simultaneously be one of the most creative, challenging, intellectually stimulating, focused, and personally rewarding times of your life. For most graduates, it is a formative experience in which they mature individual scientific approaches and ways of thinking about technical problems that permeates their entire careers. You will receive much advice during your time in our program, but let me offer three simple points that I think are especially useful to share with incoming students as they are making the transition from their undergraduate experiences.

- **Think of your advisor as an advisor, not a boss.** Ultimately, your Ph.D. thesis must reflect your ideas, contributions, and impact on a field. Your advisor’s role is to provide many informed research suggestions, but the leadership and initiative on your project should come from you, including even the theme and direction. Think along the lines “Here’s what I think we should be doing and why. Let’s discuss.” rather than “What do you think we should do next?” in conversations with your advisor.

- **Keep in mind that you are now a member of the greater scientific community and research apparatus.** Your activities will have relevance beyond this program and department. Your research contributions will be seen by an international community of experts in your field, through publications and presentations, and their impact in that context will contribute to your readiness for graduation. At the same time, your support from grants and other funds is tied to the missions of external agencies, both public and private, and therefore your progress reinforces their investment in your education. Think along the lines “What must be solved to make progress in this field?” rather than “What do I need to make progress towards graduation?”

- **Know that research has significant uncertainty.** There are many aspects of research that will differ markedly from your undergraduate experiences: few concrete deadlines and schedules; infrequent reinforcement and feedback; not knowing a priori what results will make you successful; working through long time periods on your own and often without progress; generating many ideas that fail; and competing with groups and researchers that have significantly more knowledge and experience than you. Keep in mind that these are all normal parts of the research process, and you will acclimate to them. The combination of a careful work ethic, deep thinking, and creativity will eventually lead you to success, even if short-term uncertainty seems frustrating. Think along the lines “I’m developing a deep, world-class expertise and carving out previously unknown boundaries of the problem.” rather than “I haven’t yet been able to solve my problem this week.”

Again, welcome to our program and to an exciting intellectual journey. I wish you the highest success, and an experience rich with good problems, creativity, and professional growth.

M. Scott Shell
Graduate Advisor for Chemical Engineering 2017-18
Planning your progress in the Ph.D. program

The timeline on the next few pages is intended to summarize the main requirements for the Ph.D. degree and to provide you with a year-to-year overview. Details regarding specific requirements and procedures are given in subsequent sections in this document. You are strongly advised to read the entire handbook to understand them.

As a Ph.D. candidate, successful fulfillment of the requirements in the program is solely your responsibility. In particular, neither your advisor nor the program administration and staff are responsible for informing you of and ensuring compliance with deadlines; reminders are a courtesy only. Thus, you should not wait to be prompted when for any particular requirement comes due.

Actively plan your progress through the Ph.D. program on a regular basis. Use the timeline here to motivate long-term planning so that deadlines do not sneak up. Generally speaking, you should anticipate activities within a one-year time horizon.

Coordinating with your advisor

Many of your Ph.D. requirements and activities require your advisor's involvement. You should initiate discussions about these and take the lead in planning in advance of deadlines. Talk with your advisor to understand their particular expectations for the timing of activities. Keep in mind that faculty usually have dense schedules, planned well in advance, that cannot accommodate one- or two-day turnarounds on requests from students. Instead, be cognizant of the lead time that you will need to provide your advisor before hearing back. Some typical times for faculty to complete activities are given below, although ultimately this is highly dependent on the advisor, their commitments and travel schedule, and the time of year.

- Substantive emails: 1-4 days
- Letter of recommendation: 2 weeks
- Feedback on a fellowship or other application draft: 2-3 weeks
- Feedback on a candidacy report draft: 3-4 weeks
- Feedback on a manuscript draft (for submission to a journal): 4-8+ weeks
- Feedback on dissertation draft: 3-4 weeks per chapter

When you prepare written materials for which you (or your advisor) expect to obtain feedback, set a mock deadline in advance of the actual one to allow reasonable time for your advisor to return comments. Moreover, always give your advisor drafts that are in final form from your perspective. Rough drafts that are incomplete or that have not been carefully edited will likely have low priority in your advisor's schedule and require substantially more time, or your advisor may not want to see these kinds of drafts at all.

Coordinating with your committee

Meetings with your dissertation committee require significant advanced planning to find overlap in the schedules of multiple faculty members. You should schedule committee meetings at least two months in advance if you meet during the school year, and three months if during the summer. Faculty have particularly busy summer travel schedules owing to conferences and meetings, and it can be difficult to find overlap during the summer months if not planned well ahead. During the school year, check your committee members' teaching schedules online before suggesting times.
Your committee plays a central role in overseeing your progress towards the degree of Ph.D., and its members need time to appropriately execute their responsibilities. You should observe the following hard deadlines when providing them with materials:

- Submit your complete candidacy report and portfolio to all committee members no less than two weeks prior to your exam. Provide it as a single PDF document. In addition, submit the PDF to the Graduate Affairs Committee through the Chemical Engineering Forum on Gauchospace. You should provide paper copies to committee members that request them.

- In preparation for your annual committee meetings after candidacy, submit your annual report to all committee members no less than two days prior to the meeting. Provide it as a single PDF document. After your meeting, submit a PDF of the document, including the scanned signature page(s), to the Graduate Affairs Committee through Gauchospace.

- Submit a complete draft of your Ph.D. dissertation to all committee members no less than three weeks prior to your defense. Provide it as a single PDF document, and offer paper copies to committee members that request them. Simultaneously, submit the PDF draft to the Graduate Affairs Committee through Gauchospace, and submit a completed & scanned Defense Scheduling Form to the Graduate Program Coordinator. After your defense, submit a revised PDF of your dissertation to the Graduate Affairs Committee in Gauchospace.

**NOTE:** Students who do not observe the deadline for providing a document in advance of a candidacy exam or defense (as described above) will not be allowed to hold the respective meeting, even if it has already been scheduled. Submission of PDF copies of documents to Gauchospace will provide a timestamp. The Graduate Affairs Committee may grant exceptions to this policy in cases of emergencies, schedule constraints, or faculty commitments if the student submits a written exception request describing the extenuating circumstances. Poor planning or timing in the preparation of a candidacy report or dissertation is not an acceptable reason.

◊ **Coordinating with the Graduate Affairs Committee**

Generally, the Graduate Affairs Committee (GAC) requires a minimum of two weeks to discuss and process petitions and other requests for exceptions to policies outlined in this document. Complex requests may require more time. The GAC strives to respond efficiently to requests, but keep in mind that some petitions may require discussion and information-gathering.

If you have policy or personal matters that you would like to discuss, please email the Graduate Advisor to set up a meeting. If the matter is urgent and the Graduate Advisor is unavailable or traveling (and a phone call is unsuitable), they may arrange for you to meet with another member of the GAC, as appropriate.

If you have clarifications on general policy and department logistical issues, please contact the Graduate Program Coordinator, preferably by phone call or on a walk-in basis.
Building your own timeline for success in research

Keeping with the pace of science requires consistent productivity through discovery. At the same time, discovery in research is difficult to achieve and requires an exceptional depth of study. Thus, few successful research scientists work less than 60 hours per week. As a graduate student, therefore, succeeding in research will require beyond a 9-to-5 work ethic. The Ph.D. degree signifies that you are capable of running an independent research investigation, that you have become an expert in at least one research area, and that you can interact confidently with other experts in your field. To achieve this level of competence within the 5 year normative time, you will need to dedicate yourself to your work and make it your top priority. The majority of your time should be spent in research related activities, including literature review, and you should be cognizant of the balance with your other commitments. To maximize productivity, maintain and consistently revise short- and long-term schedules for yourself. Take an hour each week to assess your recent activities and goals, and then plan your week accordingly with schedule blocks for literature review, writing, data analysis, experiments, etc. Similarly, evaluate your progress and anticipate longer-term directions once every 3-4 weeks. With such active planning and multitasking, you will avoid downtime and establish a solid research pace.
### Ph.D. program timing for first-year graduate students

The following timing gives a typical approximation of Ph.D. milestones. Requirements with hard deadlines are indicated in bold. Other text gives suggested and/or optional activities. You should consult your advisor to establish a concrete plan and schedule for these items.

<table>
<thead>
<tr>
<th>timing</th>
<th>activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>prior to arrival</td>
<td>Arrange housing. The deadline for applications for San Clemente Village is May 15. For information about on- and off-campus housing, visit:</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.housing.ucsb.edu/community/graduate-student">http://www.housing.ucsb.edu/community/graduate-student</a></td>
</tr>
<tr>
<td></td>
<td>Communicate with faculty and research groups of potential interest to obtain recent papers and manuscripts.</td>
</tr>
<tr>
<td>before the start of Fall quarter</td>
<td>Students from non-chemical engineering backgrounds: complete coursework interviews.</td>
</tr>
<tr>
<td>Tuesday before Fall classes begin</td>
<td>Attend the First Year Symposium.</td>
</tr>
<tr>
<td>first week of Fall quarter</td>
<td>Attend Department new graduate student information meeting.</td>
</tr>
<tr>
<td></td>
<td>Attend University new graduate student orientation.</td>
</tr>
<tr>
<td></td>
<td>Complete online Sexual Harassment Prevention Training.</td>
</tr>
<tr>
<td></td>
<td>Attend Diversity Awareness Training.</td>
</tr>
<tr>
<td></td>
<td>Attend TA orientation workshop.</td>
</tr>
<tr>
<td></td>
<td>Attend Laboratory Safety Course.</td>
</tr>
<tr>
<td></td>
<td>International students: complete English Placement Exam.</td>
</tr>
<tr>
<td>early October</td>
<td>Attend the Chemical Engineering Graduate Student Symposium to obtain an overview of current research in the department.</td>
</tr>
<tr>
<td>October</td>
<td>Attend weekly faculty research presentations.</td>
</tr>
<tr>
<td>October through mid-November</td>
<td>Extensively investigate research projects and opportunities. You have 6-7 weeks to finalize your research advisor choice, a time that will pass very quickly in concert with your classes. Meet individually with at least 5 faculty to discuss research opportunities. Attend group meetings of groups of interest. Consult with senior graduate students about research in the department. Obtain copies of papers and manuscripts in preparation.</td>
</tr>
<tr>
<td>end of the third full week in November</td>
<td>Provide a completed advisor selection form with your top five choices to the Graduate Program Coordinator. For your top choice, you must</td>
</tr>
</tbody>
</table>
provide a paragraph summarizing the project of interest. You must also obtain signatures of five faculty with whom you met to discuss research.

February-March
You are encouraged to assist in the recruiting new graduate students through admissions activities and prospectives visits.

early July
Submit your preferences when the list of available TA positions for the upcoming academic year is circulated.

July 15
Submit your first research progress report. Simultaneously, schedule a meeting with your advisor to discuss the research progress report.

late July
Obtain feedback from your advisor on the progress report and revise it accordingly.

August 15
Submit your revised research progress report.

early to mid September
Begin preparing for the First-Year Symposium. At the beginning of the month, you should schedule a practice talk with your group and/or your advisor for a week or so before the event.

Attend GauchoSpace training.

Tuesday before Fall classes begin
Present at the First-Year Symposium.
### Ph.D. program timing for second-year graduate students

The following timing gives a typical approximation of Ph.D. milestones. Requirements with hard deadlines are indicated in bold. Other text gives suggested and/or optional activities. You should consult your advisor to establish a concrete plan and schedule for these items.

<table>
<thead>
<tr>
<th>timing</th>
<th>activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>early October</td>
<td>Attend the Chemical Engineering Graduate Student Symposium.</td>
</tr>
<tr>
<td>January 15</td>
<td><strong>Submit your second research progress report.</strong> Simultaneously, schedule a meeting with your advisor to discuss the research progress report.</td>
</tr>
<tr>
<td>late January</td>
<td><strong>Obtain feedback from your advisor on the progress report and revise it accordingly.</strong></td>
</tr>
<tr>
<td>February 15</td>
<td><strong>Submit your revised research progress report.</strong></td>
</tr>
<tr>
<td>February-March</td>
<td>You are encouraged to assist in the recruiting new graduate students through admissions activities and prospectives visits.</td>
</tr>
<tr>
<td>early March</td>
<td>Discuss your committee with your advisor.</td>
</tr>
<tr>
<td>late March</td>
<td>Secure members of your committee and a date for your candidacy exam.</td>
</tr>
<tr>
<td>May 15</td>
<td><strong>Submit the Department Candidacy Exam Confirmation Form to the Graduate Program Coordinator.</strong></td>
</tr>
<tr>
<td>10 weeks prior to the candidacy exam (June at the latest)</td>
<td>Begin preparation of your candidacy report in earnest.</td>
</tr>
<tr>
<td>4-5 weeks prior to the candidacy exam (July at the latest)</td>
<td>Submit a draft of your candidacy report to your advisor, if you would like their feedback. This allows them 1-2 weeks to return comments, followed by 1 week for you to make edits.</td>
</tr>
<tr>
<td>2-3 weeks prior to the candidacy exam (early August at the latest)</td>
<td>Schedule a practice time with your group and/or advisor for a week or two before your candidacy exam, if you so choose.</td>
</tr>
<tr>
<td>2 weeks prior to the candidacy exam (early August at the latest)</td>
<td><strong>Complete the Conflict of Interest Form and Ph.D. Form I to nominate the Ph.D. Committee.</strong> Obtain signatures from the Ph.D. committee members and submit the completed forms to the Graduate Program Coordinator for the Graduate Advisor’s and Chair’s signatures.</td>
</tr>
<tr>
<td></td>
<td><strong>Submit your candidacy report to your committee and to the GAC through Gauchospace.</strong> Reports that are not submitted a full two weeks prior will require rescheduling of the examination.</td>
</tr>
<tr>
<td>Timeframe</td>
<td>Task Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>At candidacy exam</td>
<td><strong>Bring Ph.D. Form II to the examination, to be signed by the committee.</strong> In addition, bring a copy of the presentation skills rubric. After, submit both completed forms to the Graduate Program Coordinator.</td>
</tr>
<tr>
<td>Early July</td>
<td>Submit your preferences when the list of available TA positions for the coming academic year is circulated.</td>
</tr>
<tr>
<td>July or August</td>
<td>Submit a poster presentation abstract for the Graduate Student Symposium.</td>
</tr>
<tr>
<td>August 31</td>
<td><strong>Last possible date to complete candidacy examination.</strong></td>
</tr>
</tbody>
</table>
**Ph.D. program timing for third, fourth, and fifth-year graduate students**

The following timing gives a typical approximation of Ph.D. milestones. Requirements with hard deadlines are indicated in bold. Other text gives suggested and/or optional activities. You should consult your advisor to establish a concrete plan and schedule for these items.

<table>
<thead>
<tr>
<th>timing</th>
<th>activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday before Fall classes begin</td>
<td>Attend the First Year Symposium.</td>
</tr>
<tr>
<td>early October</td>
<td><strong>Present an oral talk the Chemical Engineering Graduate Student Symposium at least once at the start of your fourth or fifth year.</strong> Alternatively, present a poster at the Symposium in other years.</td>
</tr>
<tr>
<td>February-March</td>
<td>You are encouraged to assist in the recruiting new graduate students through admissions activities and prospectives visits.</td>
</tr>
<tr>
<td>April of your fourth year</td>
<td>Begin planning the forthcoming Graduate Student Symposium by participating on the organizing committee that consists of rising fifth years.</td>
</tr>
<tr>
<td>July or August</td>
<td>Submit a poster or talk abstract for the Graduate Student Symposium.</td>
</tr>
<tr>
<td>2-4 months before annual committee meeting (e.g., May)</td>
<td>Schedule a date for your annual committee meeting with its members.</td>
</tr>
<tr>
<td>2 days before annual committee meeting</td>
<td><strong>Submit a yearly report to your committee members.</strong></td>
</tr>
<tr>
<td>annual committee meeting must be before Sept. 30</td>
<td><strong>Hold an annual meeting with your committee.</strong> Bring the annual committee meeting and presentation skills rubric forms to the meeting. Afterwards, submit your report in Gauchospace and submit the two committee-completed forms to the Graduate Program Coordinator.</td>
</tr>
<tr>
<td>start of the 5\textsuperscript{th} year</td>
<td><strong>See the Graduate Program Coordinator briefly in person to complete a degree audit. This will identify any missing requirements for graduation that may need to be addressed in the final year.</strong></td>
</tr>
<tr>
<td>12 months prior to the Ph.D. defense</td>
<td>Consult with your advisor (individually) and committee (at your annual meeting) about expectations for finishing and defending, e.g., specific projects, manuscripts, or other requirements that must be completed by the defense. Begin the planning and organization of your dissertation.</td>
</tr>
<tr>
<td>5-8 months prior to the defense</td>
<td>Touch base several times with your advisor about your progress towards and target time for your defense. Continue working on your dissertation.</td>
</tr>
<tr>
<td>timeframe to defense</td>
<td>action/step</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>3 months prior to the defense</td>
<td>Secure a tentative date for the defense with your advisor and committee. Reserve a room suitable for the public portion of your defense. Keep in mind that your defense date is not official until you submit both the Defense Scheduling Form and your finalized dissertation draft, and the GAC approves your date request.</td>
</tr>
<tr>
<td>8-12 weeks prior to the defense</td>
<td>Provide your advisor with a draft of your thesis for their feedback. This allows 3-6 weeks to return comments, depending on the amount of unpublished content, followed by 2-3 weeks for you to make edits. Alternatively, provide your advisor with your thesis on a chapter-by-chapter basis. If a chapter is new (e.g., not based on one of your published papers), you should allot at least a 1-2 weeks <em>per chapter</em> for feedback plus another week for you to make edits.</td>
</tr>
<tr>
<td>at least 3 weeks prior to the defense</td>
<td>Submit your finalized thesis draft to your committee. Submit your draft dissertation to the GAC through Gauchospace. Submit the Dissertation Scheduling Form to the Graduate Program Coordinator. The GAC will approve the defense date if timing and requirements are met.</td>
</tr>
<tr>
<td>at least 1 week prior to the defense</td>
<td>Email the Graduate Program Coordinator with a publically-distributable announcement for your defense, including an abstract, date, time, and location.</td>
</tr>
<tr>
<td>defense</td>
<td>Give a public, seminar-style presentation of your thesis, and subsequently defend it before your committee. Bring Ph.D. Form III to the examination, to be signed by the committee.</td>
</tr>
<tr>
<td>by end of the summer of the 5th year</td>
<td>Graduation within the department normative time.</td>
</tr>
</tbody>
</table>
Report preparation and formatting

◊ General guidelines

Adhere to these formatting standards in the preparation of any report, or risk its rejection:

- 11 or 12 pt font with 1” margins
- numbered pages, equations, tables, and figures
- standard figure sizes at 3.25” in width, unless necessary to span the page width
- informative captions for figures and tables

◊ Research progress reports

The format of progress reports is the following:

- single-spaced with a maximum of 4 pages for the report, not including references
- completed self-assessment form attached at the end
- completed advisor assessment form attached at the end

Each progress report should contain the following sections:

- Project goals (including key scientific/engineering questions and hypotheses)
- Background and previous findings
- Results from this quarter (with appropriately labeled figures and tables)
- Future plans

◊ Candidacy report

The full candidacy portfolio includes:

- a detailed, written candidacy research report
- summary transcripts of graduate coursework performance
- the two written research progress reports that were submitted during the first two years

The format of the candidacy research report is:

- double-spaced and typically 20-30 pages in length, not including references
- includes appendix or section describing connection to core chemical engineering areas

◊ Annual committee meeting report

The format of the annual committee meeting report is:

- single-spaced and at most 2 pages summarizing progress in the past year and describing future plans for dissertation completion
- third page includes list of published & planned papers, list of conferences & presentations, thesis outline, and timeline/plan for the current year

After your annual committee meeting, you must also submit the signature form, signed by committee members, to the Graduate Program Coordinator.
First matters

Housing

Your first priority upon arrival at UCSB should be to secure appropriate long-term housing if you have not already arranged housing options. You can visit the UCSB Graduate Housing website at http://www.housing.ucsb.edu/community/graduate-student for community housing options, or consult other housing resources such as Craigslist.

Fees

Registration fees, health insurance and non-resident tuition for the first quarter of study are paid by the Department for all incoming Ph.D. students. Students are responsible for all other fees and charges incurred. A fee deadline for all "now due" charges will appear on your statement at the beginning of each quarter. The deadline will appear on BARC Statements from the Registrar’s Office. Questions regarding BARC statements should be directed to the Graduate Program Coordinator prior to this deadline. NOTE: A $50.00 late fee will be charged if there is an outstanding balance after the “now due” deadline.

Registration

Registration must be completed online. Instructions for registering for classes and registration deadlines are published on GOLD. Students register for the upcoming quarter during the current quarter. The Registrar’s Office will assess a $50 late registration fee to students who register after the deadline. The class schedules for the Fall Quarter for first-year students with chemical engineering backgrounds are predetermined. Schedules for students entering the program from other disciplines should consult with instructors and the Graduate Affairs Committee to determine their schedules (see Coursework interviews below). Graduate students have until the 15th day of instruction to add classes to their schedule without approval from the Graduate Division. After this deadline, schedule adjustment petitions, accompanied by a letter of justification, must be submitted to the Graduate Division for approval.

Requirements for the first quarter of registration

Graduate students must enroll for a minimum of 12.5 units per quarter. Students wishing to enroll for fewer units must petition the Graduate Affairs Committee for approval. First-year Ph.D. students with chemical engineering backgrounds must enroll in the course schedule prescribed by the Department. First-year Ph.D. students with non-chemical engineering B.S. degrees will follow a series of coursework appropriate to their backgrounds, to be decided at the coursework interviews (see below).
Meetings

Coursework interviews

Prior to the beginning of the Fall quarter, new Ph.D. students entering the program without a chemical engineering background must meet with instructors of graduate courses held in fall, or suitable alternates, to review undergraduate course work in the areas covered by the first-year graduate core course work. These students should prepare an outline of material covered by relevant undergraduate courses, including textbooks, supplementary material, etc. A record of the recommendations by the faculty for each student will be compiled and retained in his/her permanent file. A copy of recommendations will be given to the student. Such students should not register until they have completed their course work interviews.

New student information meeting

The Department Graduate Advisor and Graduate Program Coordinator will hold a formal meeting for incoming students prior to the start of Fall classes. Attendance is required.

Sexual harassment prevention training

All incoming graduate students are required to complete sexual harassment prevention training online, and will be emailed the link to the online training from the office of Title IX and Sexual Harassment Policy Compliance. In addition, UCSB requires students to complete an online training module each year of their enrollment.

TA orientation workshop

All incoming graduate students are required to attend the UCSB TA Orientation Workshop, held prior to the start of the Fall classes.

Laboratory safety course

All incoming graduate students are required to attend the Laboratory Safety Course sponsored by Environmental Health and Safety, held prior to the beginning of Fall classes. This course is mandatory for all university personnel prior to working in any chemical engineering group.

English placement exam (international students)

International students whose native language is not English are required to take the English Language Placement Exam (ELPE) and attend an oral evaluation. Students MUST REGISTER FOR AND ATTEND all ESL courses required as a result of the outcome of the ELPE exam. See the section on "International Students".
Choosing a research advisor

The choice of a research advisor is likely to be the most important decision that a first-year graduate student makes. It is necessary to devote significant thought to this choice. Students should be aware of the mechanism by which they are assigned to research advisors, and take full advantage of the information available to them in making their choices.

Assignments of first-year students to research advisors are made just before winter quarter. The department considers it essential that first-year graduate students investigate and educate themselves of available research areas and opportunities. For that reason, no Ph.D. student will be considered to have a research advisor prior to that time. Occasionally, students may be involved in short research rotations in the summer before they start, which are fine. However, rotations are not a commitment by either the student or the rotation advisor to join that group.

In October of each year, a series of faculty research presentations provide a formal overview that facilitates first-year graduate students’ exploration of research opportunities. Each faculty member briefly describes his or her research program, current research projects, and opportunities for new students to join. Attendance is required of all first-year graduate students at all sessions.

New graduate students should approach the faculty research presentations as a preview of opportunities, and work on their own to develop a significantly more nuanced and informed exposure. Thus during Fall quarter, students should meet informally and individually with several faculty members to discuss areas of research and specific projects in more detail (typically 5-7 faculty). They should talk to senior graduate students and attend regular group meetings to learn about research groups of particular interest. Meeting at least 5 faculty members and attending their group meetings are essential steps in selecting an appropriate research advisor. The department views 5 meetings with faculty members, and 5 corresponding group meetings, as a required minimum.

Students should then thoroughly investigate at least one, if not two or three, potential top-choice advisors, meeting with them multiple times and maintaining extensive engagement with their groups during this period. Students should also inquire as to the nature of funding support available for their favored projects, to assess the feasibility and options for an advising situation. These issues play an important role in the advisor assignment process, particularly if an advisor receives more requests than he or she can support in terms of funding, group, time, and other resources. Students should be cautioned that faculty members may be hesitant to go to great lengths to arrange support for a student that has had little interaction and engagement (e.g., meeting only once with them).

By the end of the third week of November, students must provide a list of five, rank-ordered choices of advisors to the Graduate Program Coordinator. The student must have met with each of the five choices listed to discuss research opportunities. A one-paragraph summary of the research topic the student wishes to pursue with their first-choice faculty advisor, and that advisor’s signature, must also be submitted. The advisor’s signature does not imply consent to an official advising relationship with the student, but is merely an acknowledgement that the advisor has discussed the research topic with the student. Any student not submitting such a list may be assigned an advisor at the sole discretion of the faculty.

The Graduate Affairs Committee will review these lists and make assignments based on both student preferences and availability of positions in research groups. The majority of students receive their first choice of advisor; however, there may be unusual cases. For example, a faculty member may be
over-subscribed by student choices and limited in available support. In such cases, the GAC will work closely with the student to determine an alternate option that suits his or her research interests. The Graduate Affairs Committee makes every effort to finalize research advisor assignments by the end of final exams week in Fall quarter, so that students may begin working with their advisors immediately in January.

Some students may choose to be jointly advised by a faculty member outside of the department. In such cases, it is a university policy enforced by the Graduate Division that they must have a co-advisor that is an active faculty member in Chemical Engineering during the entire duration of their Ph.D. to assure that they follow department policies and guidelines.

♦ **Miscellaneous department information**

♦ **Employment**

Graduate students may be employed by the University as Graduate Student Researchers (GSRs), Teaching Assistants (TAs), or Readers. There are several forms to be completed, including eligibility for employment, which requires a US Passport or two other forms of identification (Driver’s License and either Social Security card or Birth Certificate). International students must provide their passport and I-20.

Students will receive a stipend for Fall quarter and will go onto payroll for Winter quarter, beginning on January 1st. Paychecks are issued on the first day of the month following the start of employment; for Winter quarter this will be on February 1st.

♦ **Graduate Lounge**

Keys to the Chemical Engineering Graduate Student Lounge will be issued to incoming students at the New Student Information Meeting.

♦ **Computer accounts**

Each new student is automatically assigned a UCSB UMAIL account. This account must be activated and monitored because the University uses UMAIL accounts to disseminate important information. In addition, each graduate student in Chemical Engineering will also need an Engineering email account. The online request form is on the ECI website at: [http://www.engineering.ucsb.edu/eci/](http://www.engineering.ucsb.edu/eci/). Email in the UMAIL account can be forwarded to the Engineering email account.

♦ **Mailboxes**

Each student is assigned a mailbox, which should be checked daily. Mail is delivered daily after 9:00 a.m. The mail collection box in the Department office is for official university use only. The campus mail service will not process personal mail.
◊ **Photocopiars**

Copy machines are available for TA and research use in the Department office. The small copier can be used to make a very limited number of copies without a copy code. The photocopiars should not be used for personal copying.

◊ **ECI Computer Lab**

Computers and laser printers are available for student use in the ECI Computer Lab, located in Engineering II, room 3236. A valid Engineering computer account is required. **NOTE**: If your key card does not work, please see the Graduate Program Coordinator.
**M.S. Degree**

◊ **Nature of the M.S. program**

The Department’s training of graduate students is focused on doctoral studies. As a result, it does not maintain nor does it admit students to a master’s program. However, two plans for a terminal master’s degree are available to graduate students that were originally admitted to the doctoral program but that are not able to continue towards the Ph.D. degree. Generally, these options are appropriate for students in special circumstances, such as students that do not advance to candidacy or whose advisor transitions to a different institution.

◊ **Plan 1, Thesis**

30 credits of letter graded course work are required, of which 20 must be in 200-level courses in Chemical Engineering (or related fields subject to departmental approval).

- A thesis must be submitted and defended orally before a committee. The master's thesis and defense are generally distinct from the candidacy exam. The thesis must be submitted to the committee at least two weeks before the defense.
- The student must be registered for three consecutive quarters to satisfy the residency requirement.

*M.S. Thesis Committee (Plan 1).* A minimum of three regular faculty members is required. At least two must be regular faculty members in the Chemical Engineering Department. Others may serve as additional committee members. The committee is nominated by the Department Chair and verified by the Graduate Program Coordinator, and is approved by the Dean of the Graduate Division. It should be named early in the student’s graduate career, and no later than the beginning of the final quarter of work.

The Department must approve any changes to the committee membership. A committee change petition will then be forwarded to the Graduate Division. The student must ensure that his/her committee forms are up-to-date. The Graduate Division will not award a degree if the thesis signature page bears names different from those of the committee of record.

◊ **Plan 2, Non-Thesis**

Comprehensive (non-thesis) degrees are given in some cases. 42 credits of letter graded course work are required, of which 24 must be 200-level courses in Chemical Engineering (or related fields subject to departmental approval). A committee of three or more regular faculty members in the Chemical Engineering Department administers a comprehensive exam.

*M.S. Comprehensive Examination Committee (Plan 2).* The examining committee is the Graduate Affairs Committee for all M.S. candidates taking the comprehensive examination in any given quarter. The Graduate Division does not need to approve examination committees for individual students.
Ph.D. Degree

Overview of requirements

The Ph.D. degree is awarded to Ph.D. candidates following successful defense of the dissertation. Students must first satisfy the candidacy requirements and advance to candidacy. The requirements for candidacy include:

- Attend the New Student Information Meeting.
- Attend the Laboratory Safety Course.
- Attend the UCSB TA Orientation Workshop.
- Complete the Sexual Harassment Prevention Training and complete the yearly online Sexual Discrimination, Harassment, and Violence training module.
- Attend Diversity Awareness Training
- Satisfy the requirements for English as a Second Language (international students).
- Satisfy the candidacy course and GPA requirements.
- Submit satisfactory research progress reports in a timely fashion.
- Present at the First Year Graduate Student Symposium.
- TA in at least one quarter of the second, third and fourth academic years. Exceptions for not fulfilling the TA requirement must be approved by the Graduate Affairs Committee.
- Register and be in residence for six quarters, to satisfy the residency requirement.
- Complete the Sexual Harassment Prevention Training and complete the yearly online Sexual Discrimination, Harassment, and Violence training module.
- Attend Diversity Awareness Training
- Satisfy the requirements for English as a Second Language (international students).
- Satisfy the candidacy course and GPA requirements.
- Submit satisfactory research progress reports in a timely fashion.
- Present at the First Year Graduate Student Symposium.
- TA in at least one quarter of the second, third and fourth academic years. Exceptions for not fulfilling the TA requirement must be approved by the Graduate Affairs Committee.
- Register and be in residence for six quarters, to satisfy the residency requirement.
- Complete Ph.D. Form I to nominate the Dissertation Committee.
- Submit a written candidacy report and pass the oral candidacy exam.
- Complete Ph.D. Form II to report the outcome of the candidacy exam, and pay the fee for advancement to candidacy.

Following advancement to candidacy, the student must:

- Satisfy core and elective course requirements (36 units total).
- Complete yearly online Sexual Discrimination, Harassment, and Violence training module.
- Write a brief report and meet with the dissertation committee once per year to discuss it.
- Present a seminar once at the annual graduate student symposium on some aspect of the dissertation research. Students unable to meet this requirement due to the timing of the symposium may substitute a ChE 290 seminar.
- Submit and orally defend the dissertation.
- Complete Ph.D. Form III to report the outcome of the dissertation exam.
- File the dissertation with the Graduate Division.

Course and GPA requirements

Graduate students are expected to undertake a program of courses in chemical engineering and related fields that provide a depth of understanding in the core areas of chemical engineering. Students are required to complete a minimum of 36 units of graded course work before graduation. This includes 30 units required to fulfill the core and technical elective course requirements, and 6 additional units of general electives.

Students must take all core courses, and achieve a grade of “B” or better in each core course. To be eligible to take the Candidacy Exam, students must achieve a core GPA of 3.25 or higher.
Chemical Engineering Graduate Core Courses (21.0 units)

<table>
<thead>
<tr>
<th>COURSE #</th>
<th>COURSE NAME</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ChE 210A</td>
<td>Fundamentals and Applications of Classical Thermodynamics and Statistical Mechanics</td>
<td>4.0</td>
</tr>
<tr>
<td>ChE 210B</td>
<td>Advanced Topics in Equilibrium Statistical Mechanics</td>
<td>3.0</td>
</tr>
<tr>
<td>ChE 220A</td>
<td>Advanced Transport Processes - Laminar Flow and Convective Transport Processes</td>
<td>4.0</td>
</tr>
<tr>
<td>ChE 220B</td>
<td>Advanced Transport Processes - Laminar Flow and Convective Transport Processes</td>
<td>3.0</td>
</tr>
<tr>
<td>ChE 230A</td>
<td>Advanced Theoretical Methods in Engineering</td>
<td>4.0</td>
</tr>
<tr>
<td>ChE 240A</td>
<td>Advanced Chemical Reaction Engineering</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Students must take 9 units from approved technical electives. These do not need to be completed prior to candidacy. A list of electives currently approved by the Graduate Advisor and Graduate Affairs Committee is given below. Other courses may be suitable as technical electives, but these must be approved in advance by the Graduate Affairs Committee upon written petition by the student; such requests must demonstrate that the proposed course entails strong technical content and a relevance to chemical engineering research areas.

Approved Technical Electives (9.0 units total)

<table>
<thead>
<tr>
<th>Chemical Engineering</th>
<th>ChE 202, ChE 210C, ChE 210D, ChE 216A, ChE 216B, ChE 220C, ChE 220D, ChE 221, ChE/Matrl 222A, ChE/Matrl 222B, ChE 224, ChE 226, ChE 227, ChE 230B, ChE 230C, ChE/Matrl 238A, ChE/Matrl 238B, ChE 240B, ChE 241, ChE 246/Chem 264, ChE 248, ChE 289A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computation &amp; Control</td>
<td>ChE 211A, ChE 211B, ChE 211C, ChE 211D, ECE 229, ECE 236, ECE 237, ECE 247, ECE 230A, ECE 230B, ME215B</td>
</tr>
</tbody>
</table>

Finally, 6 units of general electives related to Chemical Engineering may be upper-division undergraduate or graduate level. These courses must be taken for letter grades.

To maintain full-time status, graduate students must enroll in a total of 12.5 units for each of Fall, Spring, and Winter quarters. Generally, graduate students do not enroll in summer units. First-year Ph.D. students in their Fall quarter will enroll in 12 units of core coursework in addition to ChE 290. Otherwise, the 12.5 units should be distributed among:
• **Department seminar, ChE 290.** These 0.5 units are required and students are expected to attend every department seminar.

• **Academic course units (as appropriate).**

• **Group meeting units, ChE 291 (as appropriate).** Most research advisors schedule weekly research group meetings with their students to discuss on-going research. Students in these groups should enroll in 1-2 units of ChE 291. The research advisor will counsel the student on the appropriate number of units.

• **Research units, ChE 596 / 599.** Ph.D. students enrolling in research units prior to advancing to candidacy must register for ChE 596. After advancing to candidacy, students must register for ChE 599.

Students are strongly advised to consult with their research advisors prior to registering for courses each quarter, to review their proposed class schedules. Importantly, if students plan to take more than the minimum required 36 units for the Ph.D. requirements, they should consult with their advisors beforehand.

Exceptions to the Ph.D. course requirements arising from prior coursework will be considered on the basis of a petition directly from the student to the Graduate Affairs Committee. Normally, such petitions will be granted only if the student can demonstrate satisfactory performance and knowledge from a course taken prior to coming to UCSB that is substantially similar in content and level to one of the required courses. It is the responsibility of the student to supply sufficient information about any proposed substitution so that the GAC can judge its similarity in subject matter and level to the corresponding core course at UCSB. Exceptions will be granted for courses taken at UCSB only if they have been approved in advance, based upon a petition from the student.

**NOTE:** If a substitution is proposed for a core graduate Chemical Engineering course requirement, the GAC must also certify that the grade earned at the other institution is sufficient to satisfy the minimum "B" requirement in core classes.

◊ **Research progress reports**

Prior to and in preparation for the Candidacy Exam, each graduate student is required to write and submit research progress reports that are assessed by the advisor and filed by the Graduate Affairs Committee (GAC). The goals of these reports are:

- to engage the student in concrete planning of research activities
- to provide the student with early experience and feedback in technical writing that will lead into the preparation of his or her candidacy report
- to gather formal, documented feedback from the student advisor that assesses progress thus far and offers recommendations moving forward

Each progress report should contain the following sections:

- Overview and project goals (including key scientific/engineering questions and hypotheses)
- Background and previous findings
- Results from the most recent quarters (with appropriately labeled figures and tables)
- Future plans
The progress report requirement is primarily about formulating a compelling research story. It is not about reporting activities to the GAC and progress reports should not list out a history of what the student has done. Instead, the report should involve a self-contained and clear formulation of the research story. This includes adequate motivation of the project, with background, goals, and specific questions spelled out. It should also provide a context for research activities, including hypotheses being tested and controls/interpretations expected in the research plan.

Importantly, reports should address a general chemical engineering research audience, not a specialized reader in the research subfield. They should be concise at a maximum of 4 single-spaced pages for text and figures, not including references, and should be carefully proofread for grammar and spelling. Manuscript preparation, as well as non-research activities such as significant coursework, research-related training, or fieldwork may also be mentioned as evidence of progress towards the project goals. Reports that do not adhere to formatting and presentation guidelines may be returned to the student for additional revision.

The last part of the report is the self-assessment form, in which the student provides his or her own brief evaluation of progress made towards completing the project goals, as well as areas requiring more effort. The self-assessment is not a recap of the report.

The submission of the report occurs in two stages. By the first deadline, the student must submit the complete report and self-assessment as a single PDF file to both the advisor and the GAC (the latter through Gauchospace). After this date, the advisor will then work with the student to give feedback on the report draft and assessment. It is typically expected that the advisor will give feedback in a one-on-one meeting, providing comments on both general progress and the report/writing at that time. The student should bring the advisor assessment form to this meeting, where the advisor can complete it and discuss their recommendations.

The student will then submit a final, revised report to the GAC no later than four weeks after the original deadline. By then, the advisor should have completed the advisor assessment form. The revised report should include both the completed self and advisor assessment forms at the end.

The GAC will review final reports and evaluate both the student and advisor assessments. The GAC typically only provides an assessment of technical writing skills, but it may provide further feedback as needed to address unusual cases. Generally, the GAC will not provide detailed commentary on progress in research, unless requested by either the advisor or student. The main feedback that the student receives regarding progress is from the advisor.

Reports are due to the advisor and Graduate Affairs Committee (the latter through Gauchospace) on the following schedule:

- 1st Written Report: July 15 (draft for advisor), August 15 (revision for GAC)
- 2nd Written Report: January 15 (draft for advisor), February 15 (revision for GAC)

◊ **First year symposium**

On the last Tuesday before Fall instruction begins, all PhD students near the end of their first year of graduate study will give a short presentation to the department. Students will present the motivation
for their project, their project objectives, and their early research progress if applicable. The symposium will be attended by professors and graduate students of chemical engineering. The first year symposium has several purposes:

- to encourage research progress in the first summer
- to encourage early advice on projects from the department
- to stimulate thinking about research projects (often highly specific) in the broader context for a general chemical engineering audience
- to encourage intra-department collaborations at early stages

Presentations should be 12 minutes long so that all first year students can present in a single afternoon. Participation is required for the first year students. Therefore, students should plan in advance for the event.

◊ **The dissertation committee**

A student’s dissertation committee must have a minimum of four members, including the student’s graduate research advisor(s):

- Three members must be regular faculty members from the Department of Chemical Engineering. They should be subject-matter experts in the student’s general field of research.
- One member must be from a UCSB department other than Chemical Engineering. The fourth committee member can be a regular or adjunct professor.

The dissertation committee may contain additional members from the Department or from other disciplines, at the Department’s or the student’s discretion. This committee should be named well in advance of the oral candidacy examination. The Chair of the committee is the faculty research advisor for the dissertation research; however, one of the other committee members from the Chemical Engineering Department must lead the Candidacy Exam.

The Chemical Engineering Department and the Dean of the Graduate Division must approve committee nominations. The Department must also approve any changes to the committee, and a committee change petition (Ph.D. Form IA) must be sent to the Graduate Division. The student must ensure that his/her committee forms are current, since the Graduate Division will not award a degree if the dissertation signature page bears names different from those of the committee of record.

◊ **Candidacy exam**

A comprehensive candidacy exam is required for advancement to candidacy. The exam provides an early forum for the dissertation committee to judge research progress and direction. It involves written and oral components as described below. The candidacy exam is normally completed by the end of spring quarter of a student’s second year, but it must be completed by August 31 of that year at the latest.

In late winter or early spring quarter of their second year, students should choose a dissertation committee and schedule their candidacy exam. The August exam completion deadline is not flexible because students should advance to candidacy (enter P2 status) before their third year in residence begins. Students who do not pass candidacy on time will be recommended for probationary status.
in the Ph.D. program. Failing to pass candidacy on time may also result in loss of stipend support and ultimately in dismissal from the Chemical Engineering program.

To be eligible to take the candidacy exam, a student must:

- have a grade of “B” or better in each of the following chemical engineering core graduate classes: ChE 210A, ChE 210B, ChE 220A, ChE 220B, ChE 230A, and ChE 240A
- have a GPA averaged over these six core courses that is at least 3.25
- have an overall GPA of at least 3.0
- have been registered for three consecutive quarters
- have cleared all I (incomplete) or NG (no-grade) entries on the transcript

If a grade lower than “B” is obtained in any of ChE 210A, 210B, 220A, 220B, 230A or 240A, the course must be re-taken and a minimum grade of “B” must be achieved before the student is eligible to take the candidacy exam.

◊ Candidacy report and portfolio

The Candidacy Exam is based on evaluation of a cumulative written portfolio submitted in advance by each student to his or her dissertation committee, and on an oral examination of the student’s research progress, directions, and background knowledge. The portfolio must include:

- a detailed, written candidacy research report
- summary transcripts of graduate coursework performance evidencing the GPA requirement outlined above
- the two written research progress reports that were submitted during the first two years

The Portfolio should be submitted to the student’s dissertation committee and to the GAC (the latter through Gauchospace) no later than two weeks prior to the oral Candidacy Exam.

The candidacy report should outline progress made toward the completion of the student’s research project. In addition, it should indicate clearly the proposed directions for future research. The report should be prepared in consultation with the research advisor, but the student must write it. Each report will contain a description of the research project, including a discussion of the background literature, a description of the basic experimental or theoretical procedures employed, results obtained, and a coherent plan for future studies. The report should also contain at least one section or appendix that discusses explicitly how each of the core chemical engineering area of thermodynamics, kinetics, and transport broadly contribute to the scope of the student’s proposed research. Reports should be produced in 11 or 12 pt font with 1” margins and are typically 25-30 double-spaced pages in length. While the format of each individual report may differ depending on the student and the research advisor, the amount of work expected for advancement to candidacy will be equitable for all students.

◊ The oral candidacy exam

The oral component of the candidacy exam is attended by the exam committee (i.e., the future dissertation or thesis committee) and should be scheduled for at least 2 hours. The length of the student’s presentation (if uninterrupted) should be approximately 30-40 minutes with typically 20-25 slides. The primary emphasis of the Oral Exam is a student’s research progress and associated
themes. Additional subject-matter questions that broadly relate a student’s research to the core areas of chemical engineering are also an important component. Questions and discussion of core chemical engineering principles during the oral examination will be guided by the student’s treatment of these areas in his or her written report.

A student must pass the Candidacy Exam in order to advance to candidacy and continue in the program as a Ph.D. student. If the student has not passed the Candidacy Exam by the end of the second academic year in residence, without an extension approved by the Graduate Affairs Committee, then the student will not be allowed to continue with the Ph.D. program. Instead, s/he may be allowed to complete a Master’s degree, provided the requirements for that degree are met.

By May 15th of the second year, a student must have arranged a committee and date for the candidacy examination. To ensure this, the student must submit a completed Department Candidacy Exam Confirmation Form to the Graduate Program Coordinator by May 15 that includes the date, names of the committee members, and the signature of the advisor.

The candidacy examination must be scheduled and held before August 31st. The Graduate Affairs Committee can recommend to the Dean of the Graduate Division that a student be placed on Academic Probation and/or reduce the student’s financial support for the following academic year if the student does not advance to candidacy by August 31st.

◊ **Advancement to Ph.D. candidacy**

Advancement occurs when a Ph.D. candidate successfully completes the core course requirements, passes the Candidacy Exam, and files the appropriate paperwork (Forms I and II). Except for summer, students must be enrolled during the quarter that the candidacy exam is attempted. Students enrolled in the spring quarter prior to advancing to candidacy in summer are not required to enroll in Summer Session. After the Candidacy Exam, Ph.D. Form II must be completed; the student pays a $50 fee for advancement to candidacy to the cashier, and then takes the receipt and Form II to the Graduate Division. Once Form II and the receipt of payment are accepted by the Graduate Division, advancement to candidacy is formally complete.

Advancement to candidacy has several benefits:

- The candidate is eligible for faculty privileges at the library. To receive a new library card, the candidate must take a validated receipt from the Graduate Division to the Library.
- Beginning in the quarter following advancement to candidacy, international students receive a 100% reduction in their non-resident tuition for three years. However, if the degree is not completed by the end of the third year, non-resident tuition will again be assessed at the full (pre-candidacy) rate.

◊ **Annual meetings with the Ph.D. dissertation committee**

To encourage frequent contact between each student and his or her dissertation committee, the student is required to meet with the dissertation committee at least once each academic year after completion of the candidacy exam. Students are expected to meet with their committee members collectively. *At these meetings, the student should present and explicitly solicit feedback for their progress in research, plan for their dissertation, and timeline towards the defense.*
In preparation for these meetings, the student must prepare a single-spaced one or two-page report that describes progress in the past year and future plans for dissertation completion. An additional page should provide a list of published and planned papers, a list of conferences and presentations, an outline of thesis chapter titles, and a brief timeline / plan for current year (list format). At least two days in advance of the meeting, the reports should be distributed to committee members and also submitted to the GAC through Gauchospace.

Meetings should be planned for an hour’s time, and the student should anticipate presenting no more than ~20 slides on research progress, planned publications, and their dissertation timeline. The student should also bring a copy of the annual meeting signature form to the meeting. Committee members should complete and sign the form, which the student should then submit to the Graduate Program Coordinator.

The deadline for meeting with the committee and submitting a copy of the report and signature form is September 30th. Requests for extensions must be approved in advance by the Graduate Affairs Committee; petitions for extension must be signed by the research advisor and submitted no later than September 1st. Failure to comply with these meeting requirements will result in a grade of “U” in ChE290, and may lead to a recommendation that the Dean of the Graduate Division place the student on Academic Probation and/or to a reduction in financial support for the following academic year. Note: the annual committee requirement is generally waived during the summer for students that will defend in the subsequent Fall quarter.

◊ Teaching assistantships

Participation as a TA is a significant part of the Ph.D. experience that engages graduate students in the broader educational mission and functions of the Department and University. The Department views the requirement to TA as an essential component of graduate education, and not “hired help.” Students should approach this requirement seriously and with a sincere work ethic.

All graduate students must be employed as either a TA or reader for at least three total quarters, normally one quarter of each academic year for their second, third, and fourth years in residence. Students with fellowships that prohibit such employment will be excused for the duration of the fellowship. Other exceptions must be approved by the Graduate Affairs Committee. In rare cases, a student may need to TA an additional quarter (e.g., in their first or fifth year) as a component of their overall financial support package.

At the beginning of each summer, the Graduate Program Coordinator will distribute a list of TA positions available the following school year and solicit courses of interest from graduate students. Both the Undergraduate and Graduate Affairs Committees will then work to identify TA assignments. Student preferences and research areas will be considered to the extent permitted by logistical constraints and the availability of positions.

**NOTE:** Graduate students must be on campus during all of the 11-week quarter in which they TA (until grades are submitted). Exceptions for travel, including conferences and meetings, must be approved by consultation with the instructor well in advance of the quarter.
Graduate student symposium

Approximately one year prior to the Ph.D. defense, all Ph.D. students are required to give an oral presentation on their research at the annual graduate student research symposium. Typically, the presentation requirement will be completed at the beginning of the fifth year, allowing for potential incorporation of constructive feedback from symposium attendees into the thesis.

The Graduate Student Symposium is typically held on the first Friday in October. It is organized by a group of graduate students that may consult and draw upon the guidance of the Graduate Advisor and GAC. Planning begins in April of each year and is generally the responsibility of the rising fifth year graduate students (i.e., the likely presenters).

Participation in the Graduate Student Symposium is subject to advisor approval. If extenuating circumstances prevent presentation in the Graduate Student Symposium, students may satisfy this requirement by scheduling an advertised ChE 290 seminar at UCSB no less than six months prior to the defense. In this case, seminar times and locations should be determined in consultation with the Departmental Graduate Advisor and the CHE 290 seminar committee.

Final Ph.D. dissertation defense

The University and the Chemical Engineering Department establish the rules and regulations for this defense. The Department requires that all students give an open, advertised defense in a venue that allows attendance by interested parties. Upon completion of a seminar-style presentation by the candidate, the dissertation committee, as well as interested faculty, remain for the defense portion of the exam.

Students should observe the following timeline for the defense:

- Copies of the dissertation must be provided to committee members at least three weeks in advance of the defense. At that time, students should also submit a PDF copy to the GAC through Gauchospace and a completed Defense Scheduling Form to show compliance with the required three-week notice.
- The defense should be advertised to the department at least one week in advance. Students should email the Graduate Program Coordinator with announcement information, including an abstract, date, time, and location.
- A PDF copy of the finalized thesis (the same one provided to the Graduate Division) should be submitted to the GAC through Gauchospace after the defense.

Normative time

Normative time is the number of twelve-month years that a department considers reasonable for completion of a particular Ph.D. program by a full-time student who matriculates with no deficiencies. This time is measured from the quarter a student begins graduate study at any level at UCSB. The normative time in Chemical Engineering is 5 years.

Degree deadlines

The departmental normative time differs from the institution-wide degree deadline. In every Department, the degree deadline is seven years for a Ph.D., and four years for an M.S. degree. Students who
exceed degree deadlines may petition the Graduate Council for an extension. Normative time, how-
ever, cannot be extended for individual students. Normative time is a departmental statement of ide-
als, not of actual averages or of individual possibilities.

◊ **Good academic standing**

Students that are making acceptable progress in their research and that have satisfactorily completed all degree requirements consistent with their time in the program are considered by the Department to be in good academic standing. Acceptable research progress is assessed by the advisor(s) in conjunction with a student’s Ph.D. committee members. Such assessments can be made at annual committee meetings, but may also occur at other times by discussion of the committee if problems become apparent. For students in their first or second year, advisors can also consult with the GAC on research progress.

Students that miss requirement deadlines, without having petitioned and then received approval by the GAC, will not be considered by the Department to be in good academic standing and will receive a grade of unsatisfactory or “U” in the current or subsequent ChE290 course. Such students may also risk delaying any yearly stipend raises until they are able to satisfy the appropriate requirements. Note that these requirements include the post-candidacy annual committee meetings.

◊ **Probation and dismissal**

Only the Dean of Graduate Division may dismiss a student from graduate status. This is done on the recommendation of the Department. Graduate students must maintain a minimum GPA of 3.0 in all upper division and graduate courses. In addition, students are required to make continual progress towards the degree. Probation provides students whose performance is less than satisfactory with a period of time in which to make up their deficiencies. The Department will provide written notice to the student indicating the work that the student must complete in order to attain minimum standards, and set a reasonable time limit within which the work must be completed.

◊ **Finishing**

◊ **Degree checks**

*Master's degree.* The Graduate Division initiates a degree check for a Master's degree student when the student submits a thesis, or when the department notifies the Graduate Division that a student has passed the comprehensive examination. Master’s students are required to file a "statement of candidacy" with the Graduate Division in the quarter they intend to graduate. This form acts both as a check on the student who believes he/she is graduating in any quarter, and as a means of collecting data for Master’s students, such as sources of financial support and post-graduate plans/placements.

*Ph.D. degree.* The Graduate Division initiates a degree check for a Ph.D. student when the student turns in a dissertation and/or when the department notifies the Graduate Division on Ph.D. Form III that the student has either defended the dissertation or has had the defense waived.
◊ **Incompletes**

Except for "thesis preparation" or "dissertation preparation" units, which are obviously completed when the document is accepted, no Incomplete grade may appear on the transcript of a graduate degree award. Removing Incompletes in future quarters sometimes causes problems with fees, and will not automatically trigger a second degree check. Students with Incompletes must persist until they are sure the degree is awarded, since at present there is no fail-safe mechanism to initiate another degree check.

◊ **Fee status**

A student must be in fee relationship (i.e., either registered or paying the filing fee) with the university in the quarter s/he finishes all degree requirements. Fees paid for one quarter cover activities undertaken until the next quarter begins. Spring fees also cover summer session, until Fall quarter begins.

◊ **Degree dates**

Degrees are granted four times a year, on the last day of each quarter including summer session. Students must have finished all requirements by the final day of the quarter in order to receive a degree dated that quarter. A dissertation filed between quarters (during the Christmas break, for example) will not cost the student additional fees if s/he was enrolled during the previous quarter; however, the degree will be dated as of the end of the next quarter.

◊ **Thesis and dissertation preparation**

The acceptable format for theses and dissertations is described on the Graduate Division’s website. The most critical elements are paper quality, margin size, and page numbering. The abstract should be no longer than 350 words, per the requirements of Dissertation Abstracts International.

Note that the UCSB Graduate Council has established a policy on coauthorship, previously published material, copyright, and acknowledgments in theses and dissertations that must be followed.

◊ **Thesis and dissertation filing**

M.S. theses and Ph.D. dissertations are filed online with ProQuest at

http://dissertations.umi.com/ucsb

Students must also (1) submit a PDF copy of their finalized dissertation to the GAC through Gauchospace, and (2) provide their advisor with a bound copy on cotton bond paper (no particular type so long as it is cotton bond).

◊ **Deadline problems**

Students who are trying to file a thesis or dissertation by the end of a particular quarter are encouraged to take samples of their thesis or dissertation to the Graduate Division ahead of time to ensure that the format is acceptable. Students who miss the end-of-quarter filing deadline by even one day
will be placed on the next quarter’s degree list. If requested, the Graduate Division / Registrar’s Office will provide a letter certifying the actual date of completion of requirements and guaranteeing award as of the next date.

◊ **Graduation ceremony**

The Graduate Division's graduation ceremony is one of seven coordinated by representatives of the colleges and the Chancellor’s office. Students are eligible to participate in the June ceremony even if they have not yet completed all of the requirements for the degree, provided that both they and their departments really expect them to complete all requirements within the near future.

Master's candidates simply show up with cap and gown in hand, and write their name on a card to hand to the announcer. Ph.D. students are traditionally presented by their mentors and must register for Commencement on the Graduate Division’s website in spring of the year in which they wish to participate in the graduation ceremony.

◊ **Diplomas and transcripts**

After the Graduate Division finishes a degree check, it notifies the Registrar, who posts the degree to the transcript and orders diplomas. Degree checks and posting take 6-8 weeks after the end of the quarter. Students wishing to order transcripts that show the degree awarded should request to hold for posting of degree.

As part of the degree check process, the Graduate Division notifies the student and Registrar’s Office. Students should notify the Graduate Division if a letter of completion is needed. Once the degree has been confirmed by the Graduate Division, a letter of completion may be ordered through GOLD.
Registration and Coursework

◊ **Graduate status and GPA requirement**

Maintaining graduate status involves (1) paying fees, (2) registering each quarter, and (3) maintaining an overall GPA of 3.0. Failure to maintain this academic standard will result in probation or dismissal, or failure to pay fees and/or register (unless on an approved leave of absence) will result in lapse of graduate status. Only work completed while a student has graduate status may count toward a graduate degree.

Students must be registered for classes and their fees paid by the third week of the quarter. Graduate students in good academic standing and that are making acceptable progress towards research will have their fees and stipend typically paid by their advisor but occasionally through a TA or Reader position. It is the student’s responsibility to make sure that their fees are paid by the fee deadline. A student who allows their status to lapse may petition for reinstatement.

Registration as a graduate student in the Spring quarter will cause graduate status to be maintained until the beginning of the following Fall quarter. A student who registers in Spring may, therefore, take examinations or file a thesis or dissertation during summer without incurring additional fees. A student who does not register in Spring quarter will be required to register and pay fees for Summer Session in order to take exams or file a thesis or dissertation.

◊ **Registration requirements and full-time status**

The University of California considers graduate students to have full-time status if they enroll in 8 units each quarter. Chemical Engineering students are required to enroll in 12.5 units per quarter that includes ChE 290 (Departmental Seminar, 0.5 units). Students wishing to enroll in fewer units must petition the Graduate Affairs Committee for approval. Detailed course requirements are outlined in the Degree Requirements section.

◊ **Part-time graduate status**

At present, there is no provision in the Department of Chemical Engineering for part-time graduate status. All graduate students are assessed full fees no matter how many units they enroll in. Students who are physically elsewhere are considered "in residence" at UCSB if they pay fees and register for classes. Students doing research outside the state of California may be eligible for a fee reduction through "in absentia registration."

◊ **Leaves of absence**

Continuous registration is expected of all graduate students. Leaves of absence may be granted under extraordinary circumstances, and must be approved by the Graduate Affairs Committee, prior to petitioning Graduate Division. The deadline for leave of absence petitions to the Graduate Division is two weeks prior to the beginning of the quarter. Students should ensure that the Graduate Affairs Committee has sufficient time to evaluate their request prior to this deadline.
◊ **Miscellaneous registration information**

Continuing students register during the current quarter for the following quarter. For Fall quarter, students enroll during Spring quarter.

New students and those returning from a leave of absence register at the beginning of the quarter.

Enrollment and schedule changes must be completed in the GOLD system on the Registrar's Office website. Courses requiring instructor approval may only be added using an approval code issued by course instructor.

Schedule adjustments can take place during the first week of the quarter. Students may add and drop courses without a fee. After this period, each schedule change incurs a fee. Graduate students have until the 15th day of instruction to add classes to their schedules without approval from the Graduate Division. After this deadline, a schedule adjustment petition, as well as a letter of justification, must be sent to the Graduate Division. Graduate students may drop classes up to the last day of instruction.

◊ **Department course numbers**

Courses numbered in the 1-99 range are lower division courses and may not be used for credit toward a graduate degree. They are not used for computing graduate students’ GPAs.

Upper division courses (100 series) are accepted in most departments for credit toward an advanced degree if they are not repetitions of work completed as an undergraduate. Upper division independent studies courses (198, 199) and undergraduate courses required for chemical engineering B.S. students may not be used to fulfill graduate degree requirements, unless approved by the Graduate Affairs Committee.

Graduate level courses are the 200 series.

The 500-599 series is reserved for advanced study and research. These classes are not available to undergraduates, even by petition.

594 Special topics: Special seminar on research subject of current interest. Variable unit course, usually 1-4. S/U or letter grade.

596 Directed Reading and Research: Experimental or theoretical research undertaken under the direction of a faculty member for graduate students who have not yet advanced to candidacy. S/U grade.

598 Master’s Thesis Research and Preparation: *Not applicable to course requirement for Master of Science degree.* Only for research underlying the thesis and writing the thesis. S/U grade.

Other Policies and Procedures

**Graduate Affairs Committee (GAC)**

The Graduate Affairs Committee (GAC) is comprised of faculty members and the Graduate Program Coordinator and is chaired by the Graduate Advisor / Vice-Chair for Graduate Education in Chemical Engineering. The GAC is responsible for reviewing and establishing departmental policy and procedures pertaining to graduate affairs. This committee oversees formal aspects of the normal degree procedures and makes decisions on petitions for exceptions. The GAC consults with the Graduate Student Association to obtain student feedback about requirements, policies, programs, and other department items of concern to graduate students. Additional student suggestions, grievances, etc. should be brought to the Graduate Advisor for initial deposition.

**Graduate Student Association (GSA)**

The Chemical Engineering Graduate Student Association (GSA) is a student organization that promotes activities and a support structure for the graduate community in the department. Leadership of the GSA is typically through an executive committee of graduate students. The executive committee is encouraged to bring recommendations or suggestions about department graduate policies to the Graduate Advisor and/or GAC.

**Academic conduct and the Chemical Engineering Honor Code**

It is critical to the continued development of a graduate program of the highest quality that an atmosphere of mutual trust and respect prevail among the students and between the students and faculty. In this spirit, the Graduate Affairs Committee has established of a formal code of conduct that provides a guide to both students and faculty in the administration and operation of our graduate program. The Chemical Engineering Honor Code reads:

*No person, either student or faculty, will act in a manner that is dishonest, that misrepresents their own or others' work and activities, or that takes unfair advantage of others.*

Each entering Ph.D. student will be required to sign a formal pledge that he/she will uphold this code throughout his/her graduate career. It is essential that all members of the department respect its principle, e.g., in graduate coursework, in the assignment and performance of TA duties, in research and in all other aspects of the graduate program.

The Chemical Engineering Department also adheres to and will strictly enforce UCSB’s Academic Conduct Policy:

*The core of the university’s integrity is its scholastic honesty. Academic dishonesty vitiates the university’s educational role and defrauds all who comprise its community. It is expected that students understand and subscribe to the ideal of academic integrity and are willing to bear individual responsibility for their own work. Materials submitted to fulfill academic requirements must represent a student’s*
own efforts. Any act of academic dishonesty, such as plagiarism or other forms of cheating, is unacceptable and will be met with disciplinary action.

Finally, the Chemical Engineering Department places the upmost value in the Code of Ethics set forth by the American Institute of Chemical Engineers, and expects all members of its community to respect and abide by it. The Code of Ethics is available at [http://www.aiche.org/about/code-ethics](http://www.aiche.org/about/code-ethics) and is reproduced here:

_The Board of Directors of the American Institute of Chemical Engineers adopted this Code of Ethics to which it expects that the professional conduct of its members shall conform, and to which every applicant attests by signing his or her membership application. Members of the American Institute of Chemical Engineers shall uphold and advance the integrity, honor and dignity of the engineering profession by: being honest and impartial and serving with fidelity their employers, their clients, and the public; striving to increase the competence and prestige of the engineering profession; and using their knowledge and skill for the enhancement of human welfare. To achieve these goals, members shall:_

1. Hold paramount the safety, health and welfare of the public and protect the environment in performance of their professional duties.
2. Formally advise their employers or clients (and consider further disclosure, if warranted) if they perceive that a consequence of their duties will adversely affect the present or future health or safety of their colleagues or the public.
3. Accept responsibility for their actions, seek and heed critical review of their work and offer objective criticism of the work of others.
4. Issue statements or present information only in an objective and truthful manner.
5. Act in professional matters for each employer or client as faithful agents or trustees, avoiding conflicts of interest and never breaching confidentiality.
6. Treat all colleagues and co-workers fairly and respectfully, recognizing their unique contributions and capabilities by fostering an environment of equity, diversity and inclusion.
7. Perform professional services only in areas of their competence.
8. Build their professional reputations on the merits of their services.
9. Continue their professional development throughout their careers, and provide opportunities for the professional development of those under their supervision.
11. Conduct themselves in a fair, honorable and respectful manner.

**♦ Vacation**

The Department does not set a formal number of vacation days for graduate students. Typically students take 2-3 weeks per year. However, the exact number can be dependent on the advisor and the student’s progress. Students should consult yearly with their advisors to establish reasonable vacation lengths and to approve specific dates that they will be away.

**NOTE:** A student may NOT take vacation while active as a Teaching Assistant. If a student must take vacation days while TA'ing, there must be an excellent reason and this must be approved well in advance of the quarter by the corresponding instructor.
Establishing California Residency

NOTE: The Chemical Engineering Department will pay non-resident tuition for domestic and permanent residents for the first year. These students are expected to establish California Residency for fee purposes the summer prior to entering their second year. Failure to establish residency will result in the student paying the non-resident tuition on their own. International students are not eligible to establish California residency and therefore are not subject to this policy.

For students entering Ph.D. programs Fall, 2015 and forward, the International Doctoral Fellowship program (IDRF) will provide for payment of Non-Resident Supplemental Tuition (NRST) for all international doctoral students beyond their first year of residency who have not yet advanced to candidacy. This award will be provided for the second year of enrollment only. Students are expected to advance to candidacy during the summer prior to entering their third year. International students will not be assessed non-resident tuition for nine quarters beginning the quarter immediately following advancement to candidacy through the fifth year. Students enrolled in the sixth year will again be assessed non-resident tuition.

The Office of the Registrar, using information provided by the student, decides the residency of new students. There are four basic components of the residency rules:

1. **Citizenship:** Students must be an adult U.S. citizen, an adult immigrant, or an adult non-immigrant on an A, E, G, I, or K visa. *International students on student visas may not establish California residency.*

2. **Continuing presence:** Students must be able to prove that they have been present in California for one full year prior to the residency determination date published each quarter in the Schedule of Classes.

3. **Financial independence:** If the student's parents are not residents of California, the student must demonstrate that, for a minimum of the current calendar year: a) s/he has not been and will not be claimed as a tax exemption by parents; b) s/he has not received and will not receive more than $750 during each year from parents; c) s/he has not lived with and will not live with parents for more than six weeks per year.

   NOTE: Teaching Assistants and GSRs (Graduate Student Researchers) employed at least 49% time are exempt from the financial independence criterion. All other criteria apply.

4. **Intent:** Documented intent to make California the permanent residence is the final component in the residency rules. Relevant proof of intent might include registering to vote and voting in California, using a California permanent address, possessing a California driver's license and vehicle registration, paying or filing California taxes, having a lease or rental agreement for more than an academic year, having a savings and/or checking account, California employment, etc. *These steps should be taken immediately on arrival, before the beginning of classes.*

During the summer between the first and second year of residence, non-resident domestic students and permanent residents will be required to complete a Statement of Legal Residency and submit it, with documentation proving that California Residency has been established, to the Registrar's Office. It may take several weeks to process these forms, therefore the process must be completed several weeks prior to the beginning of Fall Quarter. The Statement of Legal Residency form can be completed online at Registrar's Office web site at [www.registrar.ucsb.edu](http://www.registrar.ucsb.edu). Click on the Residency button.
Students under the age of 24 will need a letter of support from the department. Contact the Graduate Program Coordinator to obtain this letter.

Contact the Office of the Registrar (x3033) for counseling on residency questions. The final authority on residency matters rests with the Registrar. Students who leave the state, either on a leave of absence or with lapsed status, must file a residency statement when they return or reapply. Consequently, the student should maintain as many of the above indications of residency as possible while away.

◊ Petitions

◊ Guidelines and forms for petitions

The UCSB Graduate Division maintains detailed instructions and forms for a variety of petitions, including Forms I, II, and III for the regular Ph.D. program. Obtain the most recent forms at:

http://www.graddiv.ucsb.edu/academic/forms-petitions

NOTE: Not all petitions are relevant to Chemical Engineering, and students should consult the GAC before pursuing any of the non-regular options or forms offered at that website. Generally, petitions must gain approval at the Department level through the GAC before submission to the Graduate Division. Department policies on some of these petitions are given below.

◊ Leaves of absence

Continuous registration is expected of graduate students. Leaves of Absence may be granted under extraordinary circumstances, and must be approved by the Graduate Affairs Committee, prior to petitioning Graduate Division. Those who simply drop out will have to re-apply and be evaluated with the new applicants, should they wish to return.

Both graduate advisors and students should think carefully about the timing of leave requests. A "student" is one who pays fees and registers. Persons on leave are not, technically speaking, students. Student loans, visas, university housing, access to career and counseling services, student health, financial aid, etc., are either unavailable or only on fee-for-service bases to unregistered persons. Details on the nature and consequences of leaves of absence are at:

http://www.graddiv.ucsb.edu/academic/leave-of-absence

◊ Reinstatement from lapsed status

A student who fails to pay fees and/or to register by the third week of the quarter loses his/her student status. The student may petition for reinstatement if the lapse lasts three quarters or less. For lapses longer than three quarters, a student may be required to re-apply for admission. Re-application is not a guarantee of re-admission. The Graduate Advisor evaluates reinstatement petitions with the same care given to new applications.
◊ **Withdrawal**

Leaving the university after the quarter begins constitutes "withdrawal". A student must file a withdrawal petition with the Registrar; otherwise, all the classes in which he/she is registered will be awarded "F" grades. In an emergency, when a student cannot process a withdrawal petition in person, the Dean of Students' office will do so. A withdrawal should be completed as early as possible in the quarter, to ensure a maximum refund of fees. If a student intends to return to UCSB in a subsequent quarter, he/she may choose to file a leave of absence petition to make returning easier.

◊ **Incompletes**

A student must file a petition in the Registrar's office to receive an incomplete grade "I". If this petition is not on file, the instructor cannot submit an "I" grade. Incomplete grades are converted to F's at the end of the quarter following the original class, unless the instructor submits a letter grade to the Registrar. An instructor may extend an Incomplete for additional quarters by requesting the extension in writing directly to the Registrar's office.

Advanced degrees are not awarded to students carrying Incompletes. When a student removes an Incomplete while on leave or during summer session, without registering again, the Graduate Division will be unaware of the need to initiate another degree check. A student who has completed his/her course work, but carries one or more Incompletes, must inform the Graduate Division that he/she wishes another degree check to be carried out.

◊ **Procedures for appeal of academic disqualification**

The following is quoted from the UCSB Academic Senate Manual.

A) Within 30 days after the date of the notice of academic disqualification, the graduate student may submit a formal written appeal to the Graduate Dean with a corresponding copy to the Chair of the relevant department(s). The student's appeal must cite an appropriate cause for consideration of the appeal and state specific and succinct reasons the student believes the decision should be overturned. The following are examples of "appropriate cause" for an appeal of academic disqualification:

1. procedural error;
2. judgments based upon non-academic criteria;
3. specific mitigating circumstances contributing to performance; or
4. substantial evidence of remedied performance or progress toward the degree.

Disagreements over evaluation of academic quality will not be considered an appropriate basis for such appeals.

B) Within 30 days of receipt of a student’s appeal, the Graduate Dean will seek written input from the chair of the relevant department. Based upon the appeal and this information, the Dean may seek to meet with the student. If there is good reason to overturn the disqualification, the student will be allowed to continue on probation until such time as the student meets all standards of scholarship and thus will be returned to good academic standing.
C) If the Graduate Dean still recommends academic disqualification after step B, the student has 14 days to submit a written request to Graduate Council that Council consider an appeal. The appeal can be based only on the existing record. All relevant information will be forwarded to the Graduate Council, and the Graduate Dean will inform the student that the appeal has been referred to Graduate Council for further review. Within 60 days of the referral from the Dean, Graduate Council will issue a written recommendation that either the Graduate Dean’s decision be overturned or that the Dean’s decision should stand. Taking Graduate Council’s recommendation into consideration, the Graduate Dean will respond to the student in writing by certified mail within 7 days, upholding or overturning academic disqualification. In cases where academic disqualification is overturned, the Graduate Dean may reinstitute probationary status until such time as the student meets all standards of scholarship and can be returned to good academic standing.

♦ Inter-campus Exchange Program for Graduate Students (IEPGS)

Occasionally, UCSB graduate students may wish to study temporarily at another UC campus. If a student desires to take a course not offered at UCSB, wishes to study under the guidance of a specialist in residence at another UC campus, or needs to have continuing access to library holdings or facilities not available at UCSB, s/he may apply to the Inter-campus Exchange Program. Approvals are required from the department chairs and the graduate deans on both campuses. Applications are available in the Graduate Division.

Separate applications are required for each quarter and must be filed with the Graduate Division at least four weeks before the beginning of the quarter in which the student wishes to make the exchange.

The student pays fees at UCSB and files registration materials at both campuses. This procedure maintains academic residence at UCSB even though the student is not physically present. Classes taken on the other campus appear on the UCSB transcript, and are figured into the UCSB grade point average. Ordinarily, the Graduate Division will not process an inter-campus exchange petition until the student has completed at least one quarter satisfactorily on this campus.

♦ Self-care and life balance

While the research environment and progress towards the Ph.D. can be demanding, it is important for students to be cognizant of and nurture their physical and mental health. Many self-care and life balance resources are available to graduate students on campus. The Department maintains a resource handout in the Gauchospace Chemical Engineering graduate portal. Similarly, the Graduate Division maintains a resource website here:

https://www.graddiv.ucsb.edu/profdev/life-balance
International Students

♦ English as a Second Language (ESL) requirements

♦ Overview of ESL policy

Graduate Council policy requires that any student for whom English is not the native language satisfy proficiency requirements in both spoken and written English for the purposes of research and communication with colleagues, before he or she will be awarded a degree at UCSB.

♦ TA language evaluation

Language evaluations for chemical engineering graduate students are administered by the UCSB ESL Program in September, prior to the beginning of the second year of residence.

The Graduate Council requires international TAs whose native language is not English to be tested for language proficiency. A faculty member from the Chemical Engineering Department and the Director of the ESL program will evaluate the prospective TA, based on a 5-min presentation on an academic topic assigned in advance by the Department. The evaluators will assess the student’s ability to explain academic concepts, and to understand and answer questions of the type posed by undergraduates in a classroom setting.

Only students who demonstrate acceptable spoken proficiency in the English language evaluation are eligible for classroom teaching responsibilities. TAs who fail the language evaluation will be assigned alternate, non-teaching responsibilities, and will be required to take an appropriate ESL class.

♦ ESL compliance

The Chemical Engineering Department assists the Graduate Dean in monitoring the following aspects of ESL policy:

- All new international graduate students are required to take the English Language Placement Exam (ELPE) at the beginning of the quarter in which they first enroll at UCSB. Based on their performance on the ELPE, they will be placed in appropriate Linguistics classes, or considered exempt from ESL.

- Students who fail to take the ELPE are considered delinquent and will have their registration blocked for future quarters until they take the ELPE.

- Continuing international students who need additional ESL coursework will be pre-registered by the ESL Program in the appropriate classes.

- Attendance at ESL classes is compulsory. Students who do not attend their assigned ESL classes during the first week of classes (and the remainder of the quarter) are considered delinquent. Such students may have their registration blocked for future quarters until they can prove they are attending their assigned classes.
• Students are expected to complete the ESL course progression (Lx 1, English Skills Review; Lx 2, ESL Writing Skills Practicum; Lx 3G, ESL Graduate Writing) within three quarters.

• Linguistics 4, an ESL Self-Paced Tutorial class, is available to avoid scheduling conflicts involving ESL classes and to give the Department the option of asking a student who is having trouble speaking or writing English to obtain additional assistance. The Department may recommend that students needing extra help sign up for this class when it is offered.

• If university ESL requirements are not met, the Graduate Division will enforce one or more of the following options: withholding of GSR appointments; withholding of degrees; blocking of registration for future quarters and/or blocking advancement to candidacy.

♦ Office of International Students and Scholars

The Office of International Students and Scholars (OISS) has counselors to assist and advise international students in many areas, including:

• housing
• visas and immigration matters
• financial aid
• cross-cultural programs
• English conversation classes

♦ Financial aid

Graduate students may apply for President’s Work Study through the Office of International Students after three quarters of enrollment on campus.
Stipend payments and fellowship supplements

The policy of the Chemical Engineering Department is that all Ph.D. students who are within normative time, have an overall GPA of 3.0 or above, and who are making acceptable progress in research and towards completion of their dissertation, receive stipend and fee support. This support is usually paid for by the advisor, but may also stem from a TA or Reader position. Stipend and fee payments for students enrolled after their fifth year of residence are not guaranteed, and are at the research advisor’s discretion. Except under extraordinary circumstances, no student will be supported after six years of residence.

The department establishes a standard stipend level for Ph.D. students in good academic standing. Each year, the faculty takes into account the current availability of research support and the competitiveness of the department graduate program to determine the next year’s stipend level. If a stipend raise is proposed, it will take effect in fall quarter for students within normative time that are making timely progress in research and towards their degree requirements. Stipend raises are not guaranteed. Students that have incomplete requirements (e.g., missed annual committee meetings) will not receive raises until the quarter after all requirements are met. Students beyond normative time normally do not receive stipend raises.

Students who are fully supported by major, academically competitive fellowships may receive a supplemental stipend during the years of fellowship funding as an incentive to obtain competitive fellowships. Students on qualifying fellowships will have their stipends augmented to the department “major fellowship rate,” which is a fixed offset above the current NSF Graduate Research Fellowship stipend. Competitive fellowships that merit a supplemental stipend to the “major fellowship rate” are:

- NSF graduate fellowship
- National Defense Science and Engineering Graduate (NDSEG) fellowship
- NRSEC fellowship (Canada)
- Dow Discovery Fellowship
- Mitsubishi Chemical Scholarship for Excellence in Chemical Engr. Research
- Chancellor’s Fellowship
- Regent’s Special Fellowship
- Doctoral Scholars Fellowship
- Eugene Cota Robles
- Dean’s Fellowship
- Graduate Opportunity Fellowship
- Graduate Research Mentorship Program
- President’s dissertation fellowship

Stipend bonuses for other academically competitive fellowships may be approved by the Graduate Affairs Committee, but the total stipend will not exceed the major fellowship rate.

Students are also encouraged to apply for external competitive fellowships that already award stipends in excess of the major fellowship rate. For examples, see Science Mathematics and Research
for Transformation (SMART), and Department of Energy Science Graduate Fellowship (DOE-SGF). Stipends that exceed the major fellowship rate will not be supplemented by the department.

♦ Fees

◊ Quarterly fee breakdown

A detailed fee chart can be found at http://registrar.sa.ucsb.edu/feechart.aspx.

◊ Non-resident tuition reduction

Beginning in the quarter following advancement to candidacy, international students receive a 100% reduction in their non-resident tuition for three years. However, if the degree is not completed by the end of the third year after advancement to candidacy, non-resident tuition will again be assessed at the full rate.

◊ Filing fee

A student must be in fee relationship with the University in the quarter during which s/he finishes all degree requirements.

The filing fee is for the use of a student who is completing one final requirement for a degree. Students who are registered during the quarter they complete requirements for the degree need not pay the filing fee. Paying the filing fee terminates graduate student status; therefore, it may be used only by Ph.D. students and terminal Masters’ students. Masters’ students may use it if all their coursework is complete but they still need to take comprehensive exams or file a thesis. Ph.D. students may use the filing fee to file and defend dissertations.

The filing fee is one-half the amount of the student services fee; consult the Graduate Division for the updated amount. The fee should not be paid unless it is certain that the dissertation or thesis will be filed during the quarter the fee is paid. We suggest it be paid on the way to the Graduate Division, final paperwork in hand. The filing fee may not be carried forward from one quarter to the next, since it terminates graduate status. Reinstatement may then be required after lapse status, along with re-advancement, at the committee’s discretion. Leaves of absence will not be granted following lapses or after “filing fee leaves” in which the thesis or dissertation was not filed.

NOTE: Students must be registered in the quarter prior to the filing fee quarter. Students who allow their registered status to lapse will be required to register and pay full fees for the quarter in which they file their thesis or dissertation.

♦ Student employment

◊ Academic and extramural appointments

To be employed, Graduate Student Researchers (GSRs), Teaching Assistants (TAs), and Readers must be registered graduate students in good standing, i.e., with a GPA of at least 3.00 and fewer than 12
units of incomplete grades. Departmental policy requires all graduate students to be TAs or readers for one quarter during each academic year after the first year of residence. Students on fellowships will be assigned a TA or reader appointment for one quarter at 25% time during their years of fellowship support, where permitted by the fellowship.

All wages (including stipends and those earned as a TA, reader or GSR) are fully taxable.

Academic appointments for domestic students are generally limited to 50% time (20 hours per week). If this time limitation exerts an undue hardship on the student or the Department, the Chair or the Graduate Advisor may ask for a temporary exception up to a maximum of 75% time for total combined UC employment. International student employment is limited to 50% time per quarter during the academic year.

It is expected that Chemical Engineering graduate students will not have jobs outside the university. The Graduate Affairs Committee should be consulted on exceptions.

Domestic students employed by UCSB must be enrolled for a minimum of 8 units per quarter during the academic year (4 during summer session) to be exempt from paying Federal Insurance Contribution Act (FICA, or Social Security) taxes. Students who do not meet the registration requirement will be assessed the taxes. This does not affect International Students, who are automatically exempt from paying Social Security taxes.

Graduate students who are not enrolled for summer session do not meet the course load requirement, and therefore lose their exemption. The required contribution is 7.50% of salary to an individual account in the University’s Defined Contribution Plan as an alternative to paying Social Security taxes. An additional 1.45% of salary is assessed for Medicare.

The Defined Contribution Plan is a qualified retirement plan established and maintained under section 401(a) of the Internal Revenue Code. The Plan is administered by University of California Employee Benefits in the Office of the President, located in Oakland. The required 7.50% plan contribution is deducted from gross salary each pay period, and income taxes are calculated on remaining pay, thus reducing taxable income. Taxes on the contributions and any earnings are deferred (i.e., postponed until withdrawal of money, which can occur only upon termination of UC employment or retirement).

**Need-based financial support**

Graduate students may apply for need-based grants, loans, and work-study awards through the Financial Aid Office. The programs are based entirely on demonstrated financial need. Only U.S. citizens and permanent residents may apply for funds administered by the Financial Aid Office. A student’s eligibility for aid is determined by comparing the "Estimated Student Budget" with the individual student’s actual resources. Financial Aid has estimated student budgets for both single and married students.

Assistance from Financial Aid is usually offered as a combination package of the following types of aid:

- **Grants.** Like fellowships, grants are non-repayable awards.
• **Work-Study.** In this program, student salaries are paid partly by the federal government and partly by the hiring Department (usually a 60/40 split). Any on-campus job may employ students with work-study funding. Domestic graduate students are required to complete the FAFSA each winter quarter to determine their eligibility of work-study funding. *Approximately two weeks after the FAFSA has been completed, the student must log in to find out whether work-study has been awarded, and must report the amount to the Graduate Program Coordinator.*

• **National Direct Student Loan.**

In addition, students may supplement their financial aid awards by applying for one or both of the following loan programs:

• **Guaranteed Student Loans (GSL)**
• **California Loan to Assist Students (CLAS)**

To apply for financial aid, students must submit a Student Aid Application for California (SAAC) and tax certification forms, with copies of their (and in some cases their parents’) previous year’s income tax documents.

The deadline for application for financial aid is March 15. The Financial Aid Office evaluates on-time applications and mails offers of aid in April. Students who apply after the deadline are rarely funded.

♦ **Other financial support**

◊ **TA loans**

Graduate students employed as TAs may apply for a TA loan, up to the amount of the first month's salary, beginning two weeks before the start of classes, through the Office of Financial Aid. Loans are repayable in three installments by the end of the quarter (i.e., 1/3 per month).

♦ **Department of Chemical Engineering graduate student fellowships**

◊ **Dow Chemical Discovery Fellowship**

The Dow Discovery Fellowships are established through a generous gift from the Dow Chemical Company to support two outstanding graduate students who have *advanced to candidacy* in the Chemical Engineering Department at UC Santa Barbara and who have research interests in classical areas of chemical engineering of interest to Dow, as noted below. The Fellowships are intended to encourage outstanding doctoral students to solve the most important and pressing engineering problems of their time. The Chair of the Department will administer the Fellowships. The Fellows will be selected by the faculty as a whole at the annual faculty retreat, which will normally be held before the start of classes in the Fall Quarter. The Fellowship will commence at the beginning of the Fall Quarter and will pay the student stipend (equal to the prevailing combined stipend issued by the NSF and the UCSB Chemical Engineering Department to NSF Fellows), tuition and fees up to a maximum value of $50,000 per year for each Fellow (this number will be revised from time to time to reflect funds available from the annual payout from the endowment). Fellows will not be absolved of any of the normal
duties and responsibilities of doctoral students as described in the Chemical Engineering Department Graduate Student Handbook. Teaching Assistant duties will be the same as the prevailing duties assigned to NSF Fellows. The Dow Fellowship will normally last for three (3) years (subject to the Fellow making satisfactory progress towards the doctoral degree, as determined each year by their doctoral dissertation committee) in order to provide sufficient time for the Fellow to complete a substantial contribution to their field of study.

The Dow Discovery Fellowships will be made to outstanding students based on merit, academic standing and faculty recommendations. These individuals will be honored and recognized as “Dow Chemical Company Fellows.” Students who already receive a full Fellowship from another sponsor (e.g., NSF Fellows, Hertz Fellows, etc.) are not eligible to receive a Dow Discovery Fellowship. Dow Discovery Fellowships are reserved for our bravest and most fearless thinkers who are ready, willing and able to take on high-risk, high-reward research projects. If it is determined that no candidates fit these criteria in a given year then no fellowships will be awarded. The funds will roll over to the following year. Upon notification of the recipients to the Dow Chemical Company by the Department of Chemical Engineering, the company will have the opportunity to meet the Fellows to hear firsthand about the students and their research.

Areas of Interest
Reactor engineering, catalysis or combustion
Transport processes
Advanced separation technology
Applied process modeling, control and optimization, both steady-state and dynamic
Energy related research including electrochemical engineering
Process analysis based on engineering fundamentals and data-driven technologies
Computational sciences and analytics
Theoretical, experimental and applied chemical engineering

◊ Mitsubishi Chemical Scholarship for Excellence in Chemical Engineering Research

The Mitsubishi Chemical Fellowship is established through a generous gift from the Mitsubishi Chemical Corporation, Japan to support an outstanding graduate student who has advanced to candidacy in the Chemical Engineering Department at UC Santa Barbara. The Fellowship is intended to encourage outstanding doctoral students to solve the most important and pressing engineering problems of their time in any area of chemical engineering. The Chair of the Department will administer the Fellowship. The Fellow will be selected by the faculty as a whole at the annual faculty retreat, which will normally be held in early September each year. The call for applications will be made early in the academic year (so that candidates in their second year of residence can plan ahead to take their candidacy exams in time to compete for the fellowship) with the final selection of the Fellow made by September of the same academic year so that the Fellow can take up the Fellowship in time for the beginning of the Fall Quarter of the following academic year (i.e., approximately two weeks after the selection has been made and announced). The Fellowship will pay the student stipend (equal to the prevailing combined stipend issued by the NSF and the UCSB Chemical Engineering Department to NSF Fellows), tuition and fees up to a maximum value of $50,000 per year for each Fellow (this number will be revised from time to time to reflect funds available from the annual payout from the endowment). The Mitsubishi Chemical Fellow will not be absolved of any of the normal duties and responsibilities of doctoral students as described in the Chemical Engineering Department Graduate Student Handbook. Teaching Assistant duties will be the same as the prevailing duties assigned to NSF Fellows. The Mitsubishi Chemical Fellowship will normally last for three (3) years (subject to
the Fellow making satisfactory progress towards the doctoral degree, as determined each year by their doctoral dissertation committee) in order to provide sufficient time for the Fellow to complete a substantial contribution to their field of study.

The Mitsubishi Chemical Fellowship will be made to outstanding students based on merit, academic standing and faculty recommendations. These individuals will be honored and recognized as “Mitsubishi Chemical Fellows.” Students who already receive a full Fellowship from another sponsor (e.g., NSF Fellows, Hertz Fellows, etc.) are not eligible to receive a Mitsubishi Chemical Fellowship until their existing fellowship has ended. Mitsubishi Chemical Fellowships are reserved for our bravest and most fearless thinkers who are ready, willing and able to take on high-risk, high-reward projects. If it is determined that no candidates fit these criteria in a given year then no fellowships will be awarded. The funds will roll over to the following year.

◊ **Schlinger Scholarship for Excellence in Chemical Engineering Research**

The Schlinger Scholarship recognizes outstanding accomplishments in doctoral research in Chemical Engineering, as evidenced by publications, submitted manuscripts, or other measures of impact. Chemical Engineering graduate students who have advanced to candidacy are eligible to be nominated for the Schlinger Scholarship. The awardee will receive a supplementary stipend of $2000, as well as an additional $1000 for research-related expenses.* The awardee will also give The Schlinger Lecture at the annual Chemical Engineering Graduate Student Symposium. The nomination must include a one-page nomination letter from a faculty member involved with the student’s research, one additional supporting letter, the nominee’s CV, and a one-page summary of the nominee’s research accomplishments. Nomination documents should be sent electronically as a single PDF file to the Graduate Program Coordinator. The Department will notify Graduate Students when this Scholarship is available.

◊ **CSP Technologies Teacher–Scholar Fellowship**

The CSP Technologies Teacher-Scholar Fellowship is supported by a generous gift from CSP Technologies, and will be given to a Chemical Engineering graduate student who demonstrates exceptional promise in both teaching and research. The fellowship is designed to provide pedagogical experience to a student who has academic career interests and a corresponding research trajectory. The awardee will receive a one-time $2,000 fellowship award and will co-teach an undergraduate Chemical Engineering course with a faculty mentor in one quarter of the academic year. The course/mentor will be chosen by the Vice-Chairs in consultation with the fellow, taking faculty teaching assignments and course suitability into account.

The Fellow will be selected by a committee of faculty including the Chair and Vice-Chairs during the summer. To qualify, a student must have passed to candidacy and have the approval of his or her faculty advisor(s) to co-teach during the target award time frame. The Teacher-Scholar co-teaching assignment will count towards the Ph.D. TA requirement and the Fellow will not be required to have an additional TA assignment the same year.
◊ UCSB fellowships

◊ Fellowships available to continuing graduate students

The Graduate Division administers a number of fellowships and grants to which continuing students are able to apply. Students are encouraged to visit their website at:

http://www.graddiv.ucsb.edu/financial/central-campus-fellowships

The site includes a full description of the eligibility, criteria, level of support, and an application for each award. Deadlines are typically in March, and the announcement of awards typically occurs in June. A few of the major opportunities are listed below.

In addition, the Graduate Division maintains lists of other campus and extramural fellowships:

http://www.graddiv.ucsb.edu/financial/other-ucsb-fellowships
http://www.graddiv.ucsb.edu/financial/extramural-funding

◊ Broida-Hirschfelder Fellowship

*Deadline:* March 20  
*Amount:* $8,000

The Faculty Women’s Club of UCSB, with matching support from the Graduate Division, will make two awards from the Broida-Hirschfelder Endowment to graduate students in a doctoral program in science and engineering departments.

◊ Brython Davis Endowment Graduate Fellowship

*Deadline:* March 20  
*Amount:* $7,500

The Brython Davis Endowment Graduate Fellowship is designated for children of regular members of the U.S. Navy or Marine Corps. It provides one-quarter of fellowship support for a continuing graduate student.

◊ UCSB Affiliates Graduate Dissertation Fellowships

*Deadline:* March 20  
*Amount:* This group with matching support from the Graduate Division will award fellowships of $3,000 each.

The UCSB Affiliates is a community-based support group for the University of California Santa Barbara. The group will award fellowships to graduate students in any discipline who are advanced to doctoral candidacy and in the final stages of the degree. In most years at least one fellowship is reserved for a qualified graduate student whose research has an environmental focus. Another fellowship is generally designated for a qualified graduate student in Physics/Engineering. Awards are intended to assist students in the completion of their dissertations.
Graduate Opportunity Fellowships (GOF; GRMP)

Eligibility: New and continuing M.S. and Ph.D. students. Nominees should make a contribution to the graduate population in the nominating department in at least one of the following ways: low family socio-economic status; experience of a condition impeding advancement to graduate study, such as the absence of a family member who attended college; educational disadvantages such as matriculation in a school or schools with poor financial or curricular support; having a physical or mental special need; unusual or varied life experiences; fluency in other languages; academic research interests focusing on cultural societal or educational problems as they affect educationally underrepresented segments of society; or evidence of an intention to use the doctoral degree toward serving underrepresented segments of society.

Criteria for award: Students should have a GPA of 3.6 or above, and show satisfactory progress toward the degree.

Support package: Stipend of $22,000, plus fees and health insurance. This one-year fellowship may be renewed once, but renewal is not guaranteed. Second year applicants will be judged on academic promise.

Deadline: The student applies to the department by January 15. The department forwards the nomination packet to the Graduate Division.

Other Funding

UCSB Graduate Division graduate student travel grants

Ph.D. students who have advanced to candidacy, and who have been invited to present a paper at a scholarly meeting or to present results before a distinguished audience, are eligible to receive support for one trip during their graduate career. Funds are available for the following transportation costs, varying by area: East Coast, Alaska, Hawaii, Canada, Mexico, $400; Midwest, $350; West Coast, $250; California, $200; overseas, $600.

The only allowable expenses are the actual costs of airline ticket and shared use of transportation (original receipts required) to connect between airport and hotel, up to the total amount of the grant.

There is no deadline, and funds are awarded until expended.

UCSB Academic Senate patent funds

Grants from patent funds are available to Ph.D. candidates for specific needs vital to dissertation research. The grant is generally awarded to cover relatively inexpensive equipment or field expenses that are directly related to the student’s dissertation project. Applications are available from the Academic Senate and are submitted to the department for ranking with other applicants before the Research Committee considers them. The deadline is May 1 each year.
Generally speaking, stipends are taxable and graduate students alone are responsible for any owed tax and the management and timing of payments. Students should review their tax responsibilities in detail. UCSB and Departmental staff may not advise individual students on these matters, but information and links are provided by the Graduate Division at:

http://www.graddiv.ucsb.edu/financial/tax-information

Briefly, the 1986 Tax Reform Act eliminated the tax exempt status of nearly all graduate student awards and earnings. The law distinguishes between two major categories of graduate student support:

1. Fellowships, scholarships, and grants are fully taxable, except for that portion that is used for the payment of tuition and "course-required fees, books, supplies and equipment". Thus, a student receiving a fellowship that includes a stipend, the payment of fees, and tuition, will pay taxes only on the stipend. A student receiving only a stipend will subtract the amounts used from the stipend to pay fees and tuition and pay taxes on the remainder. Nonresident tuition fellowships, fee payment fellowships, and In-Candidacy Fee Offset Grant (ICFOG) payments are not taxable. The university neither withholds taxes on fellowships nor reports fellowship payments to the Federal government. Students are responsible for reporting fellowship income and arranging for estimated quarterly tax payments through the IRS office.

2. Any earnings received in return for any expectation of work on the part of the student are fully taxable. The exemption formerly allowing exclusion from taxes of stipends earned while pursuing a degree requirement for teaching or research was repealed effective January 1, 1987. The amount the student pays from these earnings for fees, tuition, books, etc. may not be excluded.