

2. Select a date for your candidacy exam, after consultation with all of your committee members, and reserve a room with the Department Receptionist during the first month of your sixth quarter. Submit this information to the Student Affairs Manager and your Divisional Advisor.

The Candidacy Oral Committee reports the results of the examination to the Student Affairs Manager who will forward the required forms to the Graduate Division. The potential report and recommendations are unconstrained. They can range from outright pass, to conditional pass, to fail. Conditional pass could require a satisfactory re-write of the written report or satisfactory completion of a remedial course. When the oral examination is passed, you must pay a fee, obtain two receipts and take them to the Graduate Division in order to become a Candidate.

Research Proposition

A proposition is a written proposal to conduct an original research project. You will not actually carry out the project. The proposition is defended in a closed oral examination conducted by a committee of faculty members from your division.

Science professionals working in industry, government and academia frequently must write proposals of many sorts and defend them orally. The proposition requirement is structured to help you become skilled in these activities. If you are In the Ph.D. program, the topic must not be closely related to your dissertation research. This aspect of the requirement gives you practice rapidly learning a new field and promotes your ability to remain current in the literature. The proposition also gives you practice (1) identifying areas of ignorance in a field, (2) formulating simple, precise questions that are significant, (3) suggesting practical experimental approaches to answer the questions identified, (4) discussing data Interpretation, and (5) anticipating potential difficulties and remedies. It also gives you practice in writing and speaking with clarity.

The proposition consists of written and oral parts as described below. The topic of the proposition may be related to the student's Chem. 290 seminar, but must not be closely related to the student's research. A written abstract (1-2 p) must be provided to each faculty member on the proposition committee no later than 4:00 pm Friday of the week preceding Thanksgiving. The purpose of this abstract is to obtain preliminary reaction as to the suitability of the topic chosen; the divisional Graduate Advisor will provide this feedback within two weeks of submission.

The written portion of the proposition must be provided to each faculty member no later than 4:00 pm Friday of the week that precedes "dead week" of the Winter Quarter in the third year of residence. The written portion should consist of 5-10 numbered pages, double-spaced, single-sided, 12 pt font. It should include: a) a title page, giving the title, student's name, b) a 1-page abstract that includes a statement of the goals and potential significance of the proposed work, and c) the main body, which consists of (4-8) pages describing the proposed research project. Give a clear description of the plan with supporting literature, and clearly distinguish proposed work from previous work that has appeared in the literature by listing all germane references using standard format.

The oral defense of the proposition will be scheduled on the Saturday preceding final exam week of the Winter Quarter. Each student will have approximately 15 min. for presentation, which will be followed by approximately 15 min. of questioning. No overheads, slides, or other visual aids are allowed. However, the student may point to complex structures in the written proposition to avoid reproducing

these on the board in the limited time allowed. The divisional Graduate Advisor will announce the results of the examination a week after the oral defense. The grade will be based on originality and significance of the proposition, evidence that background material has been covered adequately, clarity and quality of writing, feasibility of proposed experiments, proposed analysis of results, oral presentation performance (organization, clarity), and adequacy of responses to questions. If the proposition is considered inadequate, the student will be allowed four weeks to address weaknesses and provide a revised proposition and/or schedule a new oral defense. The examining committee may add further requirements.

Ph.D. Dissertation

The Doctoral Dissertation must describe original research in your field of specialization. Your Ph.D. Doctoral Committee, typically comprised of the oral examination committee with the addition of your research advisor as chair, determines the acceptability of the dissertation. All members must approve. The campus has rules regarding the form the thesis/dissertation must follow. The Graduate Division in cooperation with the Library publishes a booklet "Guide to Filing Theses and Dissertations at UCSB." The Graduate Division (x4654) has copies of this booklet. It is very valuable! It will give you all the campus rules and university requirements for filing your thesis/dissertation. **Don't try to file before reviewing this information!** You must make your own arrangements for binding personal copies and a copy for your research advisor. The final day for submission of the dissertation is the last day of the quarter (or Summer Session) for graduation at that time. **The deadline cannot be extended.**

Final Oral Presentation

The Final Oral Presentation is a presentation of the Ph.D. dissertation to the public. It should be scheduled after the dissertation has been completed and accepted, and is the final requirement for the Ph.D. Degree. The Student Affairs Manager requires adequate advance notification of the date, time and place of your Final Oral Presentation for submission of paperwork to the Graduate Division. Be sure to reserve one of the departmental conference rooms for your presentation.

REQUIREMENTS FOR MASTERS DEGREES:

There are two plans available for Masters Degrees:

⇒ Plan I - Master of Science (M.S., or thesis):

- Minimum 30 graduate and upper division units (at least 20 of the 30 units in 200 & 500 courses and no more than 10 of the 20 units in Chem. 596, excluding Chem. 501, 597 and 599)
- Seminar presentation (Chem. 290). You may choose a topic that is part of the background for your research.
- Thesis