DOCTOR OF PHILOSOPHY – CHEMICAL ENGINEERING – 2018-19

In addition to departmental requirements, candidates for graduate degrees must fulfill University requirements described in the “Graduate Education” section of the UCSB General Catalog.

REQUIRED COURSEWORK

The student is 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 **36.0 units** of graded course work before graduation. This includes 30 units required to fulfill the core course requirements. The time-to-degree for the Ph.D. is three years to advance, six years to complete the degree.

Students must take **all** required Core courses, and achieve a grade of “B” or better in each course. Students must achieve a Core GPA of 3.25 or higher, to be eligible to take the Candidacy Exam.

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<tr>
<th>REQUIRED CORE COURSES (21.0 Units)</th>
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<tr>
<td>COURSE #</td>
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<tr>
<td>ChE 210A</td>
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<tr>
<td>ChE 210B</td>
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<td>ChE 220A</td>
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<td>ChE 220B</td>
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<td>ChE 230A</td>
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<td>ChE 240A</td>
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Students must also take an additional **9.0 letter graded units** of technical electives approved by the Chemical Engineering Graduate Advisor and Graduate Affairs Committee.
GENERAL ELECTIVE UNITS (6.0 Units)

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<tr>
<th>COURSE #</th>
<th>COURSE NAME</th>
<th>UNITS</th>
<th>Grade</th>
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ADVANCEMENT TO Ph.D. CANDIDACY

Students who have not yet advanced to Ph.D. candidacy are required to write and submit research progress reports to the Graduate Affairs Committee as specified below and participate in the 1st Year Graduate Student Symposium.

RESEARCH PROGRESS REPORT SUBMISSION

FIRST YEAR OF GRADUATE STUDY:
1st Written Report Deadline: June 1  Report approved by Graduate Affairs Committee

[ ] Yes  [ ] No

Oral Presentation: September  Presented at Symposium
(First Year Graduate Student Symposium)

[ ] Yes  [ ] No

SECOND YEAR OF GRADUATE STUDY:
2nd Written Report Deadline: January 10  Report approved by Graduate Affairs Committee

[ ] Yes  [ ] No

*3rd Written Report Deadline: June 1
(If pre-candidacy on June 30th)

[ ] Yes  [ ] No

*Report is not required if Candidacy Exam is completed before June 30th.

Advancement to Candidacy for the Ph.D. degree requires a comprehensive oral examination based primarily on student’s research progress through the Winter or Spring Quarter of the student’s second year of graduate study. Eligibility to take the oral Candidacy Exam is based on a portfolio submitted by the student that includes a record of performance in graduate chemical engineering course work, the quarterly research progress reports, and a comprehensive written research report. The department does not require a foreign language examination.

Ph.D. Form I and Conflict of Interest form submitted: ______________ (date)

GRADUATE COUNCIL REGULATIONS REGARDING Ph.D. COMMITTEES:

The committee must consist of at least three UC Academic Senate members, with a tenure-track faculty member from the student’s major (home) department serving as chair or co-chair. At least two members of every committee must be tenure-track faculty. The majority of the three members shall be from the student’s UCSB major (home) department. Additional members may be appointed at the
Chemical Engineering requires a four-member committee, with the fourth member from outside of the department.

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<th>MEMBERS OF THE Ph.D. COMMITTEE</th>
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**CANDIDACY EXAM**

Candidacy/Qualifying Exam: _________________ (date)

Ph.D. Form II submitted to Graduate Division, and Advancement to Candidacy fee paid: _____________ (date)

When the student has passed the oral examination, he/she is eligible for advancement to candidacy for the Ph.D. degree.

**POST-CANDIDACY REQUIREMENTS**

The student is required to submit a brief report and meet with his or her Ph.D. committee at least once each academic year after completion of the candidacy exam. The annual deadline to meet with the Ph.D. committee and submit a copy of the report, with a completed signature page, to the Graduate Affairs Committee (GAC) is September 30th.
### MEETINGS WITH Ph.D. COMMITTEE

#### THIRD YEAR OF GRADUATE STUDY
- Meeting with Dissertation Committee: _____________ (date)
- Submitted copy of report to GAC: _____________ (date)

#### FOURTH YEAR OF GRADUATE STUDY
- Meeting with Dissertation Committee: _____________ (date)
- Submitted copy of report to GAC: _____________ (date)
- Verification that coursework has been completed: _____________ (date)

#### FIFTH YEAR OF GRADUATE STUDY (if applicable)
- Meeting with Dissertation Committee: _____________ (date)
- Submitted copy of report to GAC: _____________ (date)

Approximately one year prior to the Ph.D. defense, each Ph.D. student is required to give an oral presentation on his/her research at the annual department Graduate Student Symposium held in the fall. Typically, the presentation requirement will be completed at the beginning of the fourth or fifth year, allowing for potential incorporation of constructive feedback from symposium attendees into the thesis. If extenuating circumstances prevent a presentation at 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 defense.

### RESEARCH PRESENTATION

Graduate Student Symposium: ________________ (date)

OR

290 Department Seminar: ________________ (date)

Each student is expected to describe the results of his/her research project in a dissertation. The student must present and defend the dissertation in an oral examination. The period of time between advancement to candidacy and completion of the final oral examination is expected to be approximately three years.

### DISSERTATION SUBMISSION

- Doctoral Defense passed: ________________ (date)
- Dissertation submitted to the Graduate Division: ________________ (date)
(Includes completed Ph.D. Form III)