CHEM 698

California State University San Marcos • NEW COURSE • FORM C

ORIGINATOR'S SECTION:

1. College:

☐ **CHABSS** ☐ **CoBA**
☐ **CoEHHS** ☒ **CSM**

Desired Term and Year of Implementation (e.g., Fall 2008):

Fall 2017

2.Course is to be considered for G.E.? (If yes, also fill out appropriate GE form*) ☐ Yes ☒ No

3. Course will be a variable-topics (generic) course? ☐ Yes ☒ No
("generic" is a placeholder for topics)

4. Course abbreviation and Number:* CHEM 698

5. Title: ***(Titles using jargon, slang, copyrighted names, trade names, or any non-essential punctuation may not be used.)***
Thesis Research

6. Abbreviated Title for PeopleSoft:
(no more than 25 characters, including spaces)
Thesis Research

7. Number of Units: 1

8. Catalog Description: ***(Not to exceed 80 words; language should conform to catalog copy. Please consult the catalog for models of style and format; include all necessary information regarding consent for enrollment, pre- and/or corequisites, repeated enrollment, crosslisting, as detailed below. Such information does not count toward the 80-word limit.)***

Post qualifying exam work on thesis research. *Pre-requisite: Advancement to candidacy. May be taken for 2-6 units per semester. May be repeated, but no more than twelve (12) units of credit may be applied to the major.*

9. Why is this course being proposed?

This course is being proposed as part of the new Masters in Chemistry program. CHEM 698 will be a required course for all students.

10. Mode of Instruction*

For definitions of the Course Classification Numbers:
http://www.csusm.edu/academic_programs/curriculumscheduling/catalogcurricula/DOCUMENTS/Curricular_Forms_Tab/Instructional%20Mode%20Conventions.pdf

Type of Instruction	Number of Credit Units	Instructional Mode (Course Classification Number)
Lecture	2-6	S-25
Activity		
Lab		

11. Grading Method:*
☐ Normal (N) *(Allows Letter Grade +/-, and Credit/No Credit)*
☒ Normal Plus Report-in-Progress (NP) *(Allows Letter Grade +/-, Credit/No Credit, and Report-in-Progress)*
☐ Credit/No Credit Only (C)
☐ Credit/No Credit or Report-in-Progress Only (CP)

12. If the (NP) or (CP) grading system was selected, please explain the need for this grade option.
Research is expected to be carried out across multiple semesters, resulting in a proposal to advance to candidacy. Grade will be assigned at that point.

13. Course Requires Consent for Enrollment? ☒ Yes ☐ No

☒ Faculty ☐ Credential Analyst ☐ Dean ☐ Program/Department - Director/Chair

14. Course Can be Taken for Credit More than Once? ☒ Yes ☐ No
If yes, how many times? Up to 12 units

15. Is Course Crosslisted: ☐ Yes ☒ No

If yes, indicate which course and check "yes" in item #22 below.

16. Prerequisite(s): ☐ Yes ☒ No

17. Corequisite(s): ☐ Yes ☒ No

18. Documentation attached:
☐ Syllabus ☒ Detailed Course Outline

RECEIVED
MAR 17 2017
BY:

* If Originator is uncertain of this entry, please consult with Program/Department Director/Chair.

19. If this course has been offered as a topic, please enter topic abbreviation, number, and suffix:*

20. How often will this course be offered once established?* To be offered every semester

PROGRAM DIRECTOR/CHAIR - COLLEGE CURRICULUM COMMITTEE SECTION:
(Mandatory information – all items in this section must be completed.)

21. Does this course fulfill a requirement for any major (i.e., core course or elective for a major, majors in other departments, minors in other departments)? ☒ Yes ☐ No

If yes, please specify:
Required course in the Masters of Science in Chemistry.

22. Does this course impact other discipline(s)? (*If there is any uncertainty as to whether a particular discipline is affected, check "yes" and obtain signature.*) ☐ Yes ☒ No

If yes, obtain signature(s). Any objections should be stated in writing and attached to this form.

Discipline _____ Signature _____ Date _____Support _____Oppose

Discipline _____ Signature _____ Date _____Support _____Oppose

SIGNATURES : (COLLEGE LEVEL) :

J. Trischman 8/4/2016
1. Originator (please print or type name) Date

8/9/16
2. Program Director/Chair Date

12/14/16
3. College Curriculum Committee Date

12/14/16
4. College Dean (or Designee) Date

(UNIVERSITY LEVEL)

5. UCC Committee Chair Date

6. Vice President for Academic Affairs (or Designee) Date

7. President (or Designee) Date

Office of Academic Programs PS Banner: _____ Catalog _____ Revised 3/28/2007

* If Originator is uncertain of this entry, please consult with Program/Department Director/Chair.

RP ___ Tracker ✓

Chemistry 698– **Thesis Research**
PROSPECTIVE COURSE OUTLINE

Course Description: Post qualifier work on thesis research. *Pre-requisite: Advancement to candidacy. May be taken for 2-6 units per semester. May be repeated for credit up to 12 units.*

Student Learning Outcomes:

Students will:

- To formulate a scientific question whose answer would further understanding in a specific field of study and carry out strategies to answer the question.
- To take into consideration all relevant dimensions of the project and to identify and solve problems as they occur during the research
- To clearly present and discuss research conclusions as well as the knowledge and arguments that form the basis for these findings both orally and in writing

Textbooks: No textbook will be used.

Course Activities: Students will carry out original research under the close supervision of a thesis advisor and additional guidance from a thesis committee.

Contact Hours with Advisor (minimum): 1/week
Literature Reading and Analysis (minimum): 1 hr/week/unit
Laboratory/Field/Classroom work (minimum): 3 hr/week/unit

Grading Scheme: Grades of RP will be given for the semesters prior to the qualifier. Evaluation of the work for the entire sequence of Chem 698 courses will be evaluated by the research mentor and the thesis committee, and a grade will be assigned based on a combination to of the oral and written presentations of the work (50% mentor, 50% committee) and the effort in the laboratory or K-12 setting (100% mentor). Specific grading guidelines for all project and thesis work will be developed by the department.

The research mentor may petition for a revision to the grade with the department if he/she feels an unwarranted grade has been awarded.