

CHE 589 – Thesis Proposal

Prerequisites

Completion of CHE 588

Course Description

Note: Q grade designation. The proposal must be completed in the term the student registers or the student must register again to receive credit for the course.

A. **Course Objectives:** Upon completion of this course a student will be able to prepare a current and in-depth literature review of the selected area of study and assess the significance of the proposed thesis research. Assessment of the objectives will be evaluated on the basis of proposal drafts and acceptance of the final proposal by the School of Graduate Studies. The evaluation will involve the thesis advisor, a second reader, the Chairperson of the Department of Chemistry, and selected representatives of the School of Graduate Studies.

B. **Course Outline:** This course will follow an independent study format involving regular meetings with the thesis advisor to ensure timely completion.

C. **Modes of Instruction:**

The modes of instruction will include revisions to written documents.

D. **Evaluation:**

Student evaluation will involve assessment of literature content, appropriate research content and proficiency using style sheets, drawing programs, and adherence to thesis proposal guidelines according to ACS styles and those imposed by the School of Graduate Studies. .

E. **Bibliography:**

1. Ebel, H. F.; Bliefert, C.; Russey, W. E. *The Art of Scientific Writing*, 2nd Ed.; Wiley: New Jersey, 2003. ISBN 3-527-29829-0
2. Fieser, L.; Fieser, M. *Style Guide for Chemists*; Kreiger: Huntington, NY, 1972.
3. Schoenfeld, R. *The Chemist's English*, 3rd Ed.; VCH Publishers: Deerfield Beach, FL, 1989.

4. Perelman, L. C.; Barrett, E.; Paradis, J. *The Mayfield Handbook of Technical and Scientific Writing, 1st Ed.*; McGraw Hill: NY, 1997. ISBN 1559346477
5. Halliday, M. A. K. *Writing Science: Literacy and Discursive Power*; University of Pittsburgh Press: Pittsburgh, 1993.
6. Roze, M. *Technical Communication: The Practical Craft, 3rd Ed.*; Prentice Hall: Upper Saddle River, NJ, 1997.
7. Alley, M. *The Craft of Scientific Writing, 3rd Ed.*; Springer: NY, 1996.
8. Booth, V. *Communicating in Science: Writing a Scientific Paper and Speaking at Scientific Meetings, 2nd Ed.*; Cambridge University Press: Cambridge, 1993
9. Online resources are extensive and include sites from other university libraries and scientific writing courses as well as publications from scientific publishers. Searching GOOGLE[®] for “Scientific Writing Chemistry” provided over 8 million hits.