## PROPOSED SYLLABUS

## GEOL 3999 Undergraduate Thesis in Geology

Semester: _			
Advisor:			

Course Objective: The student, under the direction of a specified professorial faculty member, will become familiar with independent research associated with problems in the geological sciences. The student is expected to complete the research necessary to write a formal thesis, to present the thesis inpublic oral presentation, and to defend the research to a faculty committee. Completion of the course articlesis will demonstrate the W X Cotable City for research, originality of thoughtand problemsolving skills, and ability to organize esources and materials

Prerequisites: GEOL 3909; consent of Department; consent of professor

## **Enrollment Requirements**

- 1) The student, under the direction of a specified professorial faculty mewhbewill serve as the Advisorwill continue to develop their impendent research skills and experience, continued from the research undertaken from previous study in GEOL 3909. The advisormust be a Full Member or Associate Member of the Graduate Faculty and either a full-time or adjunct member of the Department expansion.
- 2) The student should submit an application, signed by the advisor, to the Department, so that a section of GEOL 3999 specific to that student can be created.
- 3) The student will write a thesis and present their research passia, oral presentation. The presentation should be based the thesis work accomplished by the studend, be approximately 2030 minutesong. Questions may be asked from the public lowing the public presentation and question period osed session ill follow in which only the student and the thesis committer. the thesis advisor and at least two additional faculty) are present the student will defend the thesis to a committer expression of the committee.
- 4) A complete copy of the thesis, it is to be defended, must be given to each committee member at least two where prior to the public defensew where public notice prior to the defense is require (e.g., posted flyers and email announcements)
- 5) The studentmust submit both an electromand a paper copy of the thesis to the Department. The paper copy should contain hard copies of text and figures and

previous research findisorm GEOL 3909

- b. The identification and selection of two additional committee members for the thesis defense, with at leashe being within the Department;
- c. Clearly defined faculty expectations regarding time commitments and meetings that will be needed to complete secific tasks on the project(s);
- d. Agreement on the type(s) of written record(s) of the research and outcomes (e.g., lab notebooks, reports, etc.)
- e. Discussion about guidelines and requirements for the written thesis, oral public presentation of thesis research, and the defense of the research to the committee;
- f. Discussion of the possible opportunities for encouraged outcorses, as studentfirst-authored abstract and presentation at a conference, submission and eventual acceptance afpeerreviewed, studer first-authored publication.
- 2) In general, the undergraduate student should spend at least 3 hours conducting research activities for each hour of enrollment. It is recommended that the student record the time spent conducting reseat in a lab notebook.

Course Grading: GEOL 3999 is Pass/Fail pass is granted if not more than one dissenting vote is given by the members of the thesis committeessing student is expected to have conducted independent research that makes disagnicontribution to a problem in the geological sciences such, the student demonstrated outstanding comprehension of the problem within a major research area, as well as proficiency in associated sciptines. Where comprehension or individual skills might have been lacking, the student had noticeable personal growth during the research experience student provided consistent, deliberate effort throughout the semester without frequent pushing by the advisor. The delivery of the thesis and defense of the thesis were timely.