

MAT 5420
Teaching Apprenticeship
GENERIC SYLLABUS

Bulletin Description:

MAT 5420 Teaching Apprenticeship/(1). F;S.

This course provides a supervised experience in college teaching through direct participation in a classroom situation. Each student will work closely with a faculty mentor teaching an undergraduate course and will be actively engaged in the development of activities and assignments. Students will share their experiences in the corequisite seminar. This course may be repeated for a total credit of three semester hours. Corequisite: MAT 5415 Seminar in Mathematics.

Goals:

The student will work closely with a faculty mentor teaching an undergraduate course and will be actively engaged in the development of activities and assignments. This work will provide students with:

- the opportunity to gain experience with teaching innovations as well as traditional teaching approaches;
- experience in dealing with different types of learners in a real class setting;
- experience with the use of technology as it is employed in courses typically taught at the two-year college level, including graphing calculators, symbolic algebra systems, spreadsheets, statistical software and web-based courseware.

Course Resources:

Three or more texts covering the topics to be presented in the class.
Readings from the literature on pedagogy as assigned by the mentor.

Expectations:

Students will:

1. Work with the mentor in conducting classes and labs;
2. Design classes and labs;
3. Design syllabi/outlines for their own courses;
4. Work with undergraduates in direct, one-on-one ways to experience how different types of learners perceive concepts and ideas;
5. Work with the mentor to develop tests and assignments;
6. Participate in classroom centered research, such as qualitative research on student's understanding of concepts, or effectiveness of particular class designs and approaches;
7. Learn about various pedagogical issues through the corequisite seminar.

Evaluation:

- The apprentice will submit a portfolio containing written work in several forms:
 - Items produced in tasks 2,3,5
 - Results of 6
 - Diaries of 1,4
- The apprentice will present an overview of the apprenticeship experience in the corequisite seminar, MAT 5415.