



Course Syllabus

This syllabus is subject to change at the discretion of the instructor.

EDUC 3125.03
COURSE NUMBER

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INSTRUCTOR

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Technology in the Classroom: Mathematics
COURSE TITLE

Fall, 2005 3
TERM CREDIT HOURS

1. Course Description:

This course is offered online. It is a hands-on, project-based course designed to help future educators use technology creatively and effectively in support of curriculum in middle and secondary mathematics classrooms. Emphasis is on learning how to use calculators, software and the internet.

2. Learning Outcomes:

- Describe terms, concepts and trends in the use of technology with middle school, secondary, and special education students. (MO-STEP 1b, 3a, 5a: CC5-K3)
- Select and evaluate web sites to determine appropriate use in the classroom. (MO-STEP 1b, 5a; CC5-K3)
- Plan for the use of technology as an integrated part of the curriculum (MO-STEP 1b, 5a; CC5-K3)
- Use spreadsheets, word processing (with equation editor) with students and as teacher utilities. (MO-STEP 1b, 5a)
- Use the Internet for research and email (MO-STEP 1b, 5a)
- Design an integrated lesson using technology (MO-STEP 1b, 5a; CC5-K3)
- Demonstrate competency with a variety of mathematical software and hardware. (MO-STEP 1b, 5a)

3. Activities:

This course is taught online and a large part of it is individual work. It involves reading, experimenting, and writing. There are multiple small units worth a varying number of points. There will be units on the web, using calculators and accessories, math specific software, math classroom software, spread sheets, professional videos, etc. Depending on the unit, you will be asked to write a short report, plan a classroom activity, or do an assignment to demonstrate proficiency. For each unit you will also be required to write a brief learning log indicating a day by day record of how much time was spent and what was accomplished. The log should be informal as if you were telling a friend how you

spent your time. It can include positive and negative comments as to the usefulness of the content and organization of the assignment.

With a few exceptions the units may be worked in any order. Some units require special materials such as videotapes or calculators. They may be picked up at the circulation desk of the library (314-968-6952).

5. Evaluation:

Points for each activity will vary from 5 to 14 points. The list of units includes the maximum number of points each unit is worth. If you do part of a unit you will earn a portion of the points. For an A grade 160 points are needed. 150 A-, 140 B+, 130 B, etc. It is important in an on-line course to pace yourself and not wait to turn in all your work in the last week or two. I encourage you to keep a steady pace of turning in about 10 points of work a week. **Please email me (schwabca@webster.edu) each time you submit an assignment.** I will attempt to grade your work quickly.

6. This is a 16 week 3 credit hour on-line course. After you are registered go to <http://www.webster.edu/worldclassroom/> to learn about the Webster University WorldClassRoom. This site has step-by-step instructions about how to set up your computers for a WebCT course (http://www.webster.edu/worldclassroom/tech_requirements.html.)

If you have never taken a WebCT course before, you are strongly recommended to go through the entire "Student Information Center - WebCT Orientation" on your MyWebCT page to learn about the various WebCT tools.

7. All projects and papers are to be submitted through Web CT.