



Course Syllabus

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

<u>EDUC 3125.03</u>	<u>Carol Schwab</u>	<u>schwabca@webster.edu</u>
COURSE NUMBER	INSTRUCTOR	E-MAIL ADDRESS

<u>Technology in the Classroom: Math</u>	<u>Fall, 2004</u>	<u>3</u>
COURSE TITLE	TERM	CREDIT HOURS

1. Course Description:

This is a hands-on, project-based course designed to help 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 class is taught as an independent study. There are multiple units worth a varying number of points. When online, you will be able to click on the unit name to read instructions for the unit. For each unit you are required to write a learning log indicating a day by day record of how much time was spent and what was accomplished. A sample log is available; however, you may use your own format as long as the important material is included. 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. 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. Units with an asterisk are required.

For an A grade 150 points are needed. 140 for A-, 130 for B+, 120 for B, etc.

Unit	Points Possible
Introduction to the Web	8
Web Search	8
Introduction to HTML	10
Your own web page	10
Web Quest	12
TI 83 Plus Introduction	10
Connectivity Accessories	8
TI 92 Introduction	10
Cabri Geometry II	8
More on Cabri Geometry II	8
Derive Software	10
Statistical Software	5
Statistical Activity	8
Mathematics Videos	8
Electronic Spreadsheet Introduction	10
Grade Sheets	5
Equation Editor	5
Educational Software	8
*Accessibility Aids	8
Creating a New Unit (may be repeated)	12

4. Resources & Supplements:

No text book required

All assignments are online. Link from <http://www.webster.edu/~schwabca>

5. Evaluation:

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 150 points are needed. 140 A-, 130 B+, 120 B, etc.

6. This is a 16 week 3 credit hour course.

7. All projects and papers are to be submitted by email (schwabca@webster.edu)

Comments and grades will be returned by email or in hard copy (pick up in SV203.)

NOTE; Papers will not be available for pick up from the School of Education Office.