

**MAT 1163**  
**ESSENTIAL ELEMENTS IN MATH II**  
**Fall 2010**

Class:

210-458-4756 (Dept Admin)

Office Hours before and after  
class or by appointment

**Course Description:**

Prerequisite: MAT 1153 (Essential Elements in Math I).

Algebra, statistics and probability; geometric shapes; measurement; coordinate and transformational geometry. May not be applied toward a major in mathematics.

**Course Objectives:**

- ◆ to develop understanding of the processes of elementary mathematics;
- ◆ to learn to integrate mathematical manipulatives into the teaching of mathematics.

**Text:**

*Mathematics For Elementary Teachers - A Contemporary Approach 8<sup>th</sup> ed.*, by Musser, Burger, and Peterson; Wiley

**Course Requirements:**

1. **Exams:** Four major tests covering the assigned activities, the textbook materials, and class discussions will be administered. The tests will be multiple format.  
Possible points: 15 points each  
**Test Dates: TBD**
2. **Homework/Quizzes/Labs:** Each class member is expected to complete assigned homework, participate fully in labs and class activities.  
Possible points: 10 pts  
**Dates due: N/A**
3. **Journals:** You are required to maintain a reflective journal.

**Weekly Journals:** Your journal is a record of your personal reflections on teaching in relation to topics covered by your readings and/or discussions in class. The instructor will post a question or questions to WebCT each week after the last class. These questions should be answered - not as literal yes/no/essay type questions, but rather as to your thoughts and feelings of how the question relates to the discussions that week or in previous weeks.

Journals must be kept electronically and will be submitted through WebCT each week by Sunday at 6PM.

Possible points: 10 pts

**Due Dates: Each Sunday before 6PM**

4. **Demonstration Lesson:** You will be required to work with one to two partners to design a math lesson appropriate for elementary school students. These projects will include: activity plan, manipulatives where appropriate, laboratory activity, and an evaluation instrument (this may be the activity's outcome). You and your partner(s) will demonstrate the lesson to the class (for approximately 20 minutes) and give each class member a copy of the activity. Presentations should include the activity plan, any handouts given classmates, and the evaluative instrument.

Possible points: 10 pts

**Dates due: TBD**

5. **Final Exam:** Comprehensive assessment of the semester's objectives, discussions, activities, and learning.

Possible points: 15 pts

**Test Date:**

**GRADES:**

Exam I:	15 possible points
Exam II:	15
Exam III:	15
Exam IV:	15
Homework/Quizzes/Labs:	10
Journal:	10
Demonstration Lesson:	10
Final Exam:	<u>15</u>
	105 total possible points

<u>Points</u>	<u>Grade</u>
90 - 105	A
80 - 89	B
70 - 79	C
60 - 69	D
Below 60	F

**Course Expectations:**

1. Class Participation is necessary since sessions are conducted as seminars. When preparing for class, note the questions and comments that are prompted by the homework and raise them in class. Be sure to complete all required preparations for the day before coming to class.
2. Attendance: 2 points will be deducted from your overall average for each session missed after one absence. Excessive tardiness (more than 10 minutes) will be considered an absence.
3. Assignments: All assignments will be presented in final, edited form on or before the due dates. Assignments are due at the beginning of the class and

may be checked by quiz. Some due dates may be changed in class, if necessary. **NO LATE WORK** will be accepted unless discussed with the instructor **prior to the due date**.

4. **Scholastic Dishonesty:** University policy regarding cheating will be followed in this class. “Students are expected to be above reproach in scholastic activities. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and dismissal from the University. According to The Regents’ Rules and Regulations, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22, ‘Scholastic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an exam for another person, any act designed to give unfair advantage to a student or the attempt to commit such act.’ Since scholastic dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced.”
5. **Special Services:** University policy regarding student special services will be followed in this class. Students with disabilities must be registered with the Office of Disability Services, located in MS 2.03.18.

The instructor maintains the right to change this syllabus at his discretion and will inform students during class. A student is responsible for changes even if he/she is absent.

### Projected Schedule

MAT 1163		Essential Elements in Math II (Projected - Subject to Change)		
Week	Dates	Monday	Wednesday	Friday
1	Asmt:	Syll / Intro	9.1	9.2
2	Asmt:	No Class On-Line	9.3	9.3
3	Asmt:	10.1	10.2	10.3
4	Asmt:	Rvw / Q&A	Test 1	11.1
5	Asmt:	11.2	11.2	11.3
6	Asmt:	11.4	How Long is a Minute	12.1
7	Asmt:	12.2	12.3	12.4
8	Asmt:	12.5	Rvw / Q&A	Test 2
9	Asmt:	Spring Break	Spring Break	Spring Break
10	Asmt:	13.1	13.2	13.3
11	Asmt:	13.3	13.4	Polydrons
12	Asmt:	14.1	14.2	14.3
13	Asmt:	Rvw / Q&A	Test 3	15.1
14	Asmt:	15.2	15.3	16.1
15	Asmt:	16.2	16.3	Test 4
16	Asmt:	Stu Lessons Groups 1-2	Stu Lessons Groups 3-4	Student Study
17				