Math 177: Mathematics for Elementary Education I  
Spring 2015

Instructor: Elizabeth Miller  
Office Hours: MW 11 - 2    TT 8:30 – 9:30 and 11 – 12  
Office: Fayard 330E  
Phone: (985) 549-5904  
E-mail: emiller@selu.edu

Course Description:
3 credit hours. Prerequisite: Math 155 or 161. Computational facility and number theory, with an emphasis on problem solving. This course may not be used to satisfy the General Education requirements.

Course Goals and Objectives:
The goal of this course is to prepare pre-service teachers to teach mathematics in a K-8 setting.

Students who successfully complete this course:

1) should be able to understand, explain, and apply problem solving strategies

2) should be able to demonstrate an understanding of sets and set operations

3) should be able to explain the connection between the properties of sets, natural numbers, whole numbers, integers, and rational numbers

4) should be able to model basic computations using a combination of manipulatives, the number line, illustrations, and properties of number systems

5) should be able to use the properties of number systems to develop algorithms for these computations

A detailed outline of course objectives is also available under the course documents link on Moodle.

Online Textbook:

MathXL:

Calculator Policy:
Calculators will not be allowed in this course. Scratch paper will be available upon request during exams. The proper use of calculators will be covered in future courses.
Grading Policy:

- 3 exams – 45%
- Homework – 10%
- Quizzes (skills Test 1 & Mathxl)/projects – 20% (10% each category)
- Final exam – 25%

Successful completion of this course is a grade of “C” or higher. A grade of “D” or lower means the course must be repeated.

A 90/80/70/60 grading scale will be used in this course.

Special Course Requirement:
A skills test is required of all students taking this course. A score of 24 or higher out of 30 (80% minimum) is required for students to pass the course with a “C” or higher. Any student failing to complete this requirement successfully will receive a grade no higher than a “D.” This test will be offered three times during the semester. **All students must take the test during the first testing week and this attempt will count as a quiz grade.** Students not receiving a score of 24 or higher may take the test up to two more times. The second and third attempts will not count as a quiz score but will used be to determine the eligibility to receive a grade higher than a “D”. Each student may attempt the exam one time during each of the three testing intervals. This exam is computer based and students are required to sign up for a testing time. Testing times and room will be announced by your instructor. Each semester the skills test schedule will be posted under the course documents link as soon as it becomes available. **All students must take and pass the skills test, regardless whether you have passed it in previous semesters.**

Homework:
Mathxl Assignments:
- Assignments are posted for the entire semester.
- Due dates are posted and correspond to testing dates.
- In an effort to help you improve your knowledge and grade, you may attempt the problems as many times as you like before the due date.
- The homework assignment will automatically cut off at midnight of the due date.

Other Homework
- Conceptual and teaching application problems will be assigned throughout the semester.
- Other problems may be assigned as deemed necessary by the instructor.
It is strongly recommended that every attempt be made to complete the posted assignments for the following reasons:

- Provides reinforcement of conceptual understanding.
- Provides practice in fundamental mathematical skills.
- Provides opportunities for conceptual linking.
- Provides practice in future job related activities.
- Provides practice for future exams.

**Attendance Policy:**

Attendance, while not a graded component of the course, is very strongly encouraged. Should you miss a class, you will still be responsible for any material covered, and you may miss learning opportunities and graded activities. Attendance will be taken each day. **The instructor reserves the right to withdraw a student for excessive absences.**

**Makeup Work:**

- There are no makeup exams. In the case of an excused absence on the day of an exam (at most one per student per semester), the final exam will count in place of the missed exam. However, students rarely perform better on the final exam than their current average. In other words, if at all possible, don’t miss any exams!
- Extra time will NOT be given to students coming in late to an exam.
- Homework and classwork cannot be made up. Homework may be turned in ahead of time, but will not be accepted after the due date.

**Tentative Exam Schedule:**

- Test 1 – Tuesday, February 24th
- Test 2 – Tuesday, February 24th
- Test 3 – Thursday, April 30th
- Final – Monday, May 11th from 2:45 – 4:45

**Tentative Skills Test Schedule:**

- Skills test 1 – Thursday, February 5th
- Skills test 2 – Thursday, February 19th
- Skills test 3 – Thursday, March 5th

**Withdrawal:**

It is the student’s responsibility to complete all paperwork required to officially withdraw from this course. **The instructor reserves the right to withdraw a student for excessive absences.**
Drop Date:
Friday, March 13, 2015 is the last day to drop this course or resign from the fall semester completely.

Academic Integrity:
Southeastern Louisiana University expects students to maintain the highest standards of academic integrity at all times. Behavior that violates these standards is not acceptable. In this class, examples of cheating include the use of unauthorized material or communication with fellow students during an exam, attempting to benefit from the work of another student, and similar behavior that defeats the intent of the exam or given assignment. I consider cheating to be a very serious offense, and it will be grounds for disciplinary action as outlined in the current General Catalogue.

Classroom Decorum:
Free discussion, inquiry, and expression is encouraged in this class. Classroom behavior that interferes with either (a) the instructor's ability to conduct the class or (b) the ability of students to benefit from the instruction is not acceptable.

Examples may include routinely entering class late or departing early; use of beepers, cellular telephones, or other electronic devices; repeatedly talking in class without being recognized; talking while others are speaking; or arguing in a way that is perceived as "crossing the civility line." In the event of a situation where a student legitimately needs to carry a beeper/cellular telephone to class, prior notice and approval of the instructor is required.

University Policies:

Office of Disability Services:
If you are a qualified student with a disability seeking accommodations under the Americans with Disabilities Act, you are required to self-identify with the Office of Disability Services (room 117 in Mims Hall). No accommodations will be granted without documentation from the Office of Disability Services.

Family Members:
According to Southeastern Louisiana University policy, students cannot bring family members to any classroom for day care or babysitting.

Email Policy:
According to Southeastern Louisiana University policy, your Southeastern email address is the only acceptable email address that I may use in communicating with you.