MA105.01 Syllabus (Sp08)

by Mary Pat Sjostrom

Math 105 Syllabus

INSTRUCTOR

Dr. Mary Pat Sjostrom

E-mail: msjostro@chaminade.edu　　　　Work Phone: 739-8563

OFFICE HOURS

Brogan Education Room 118
Tuesdays 11 a.m. - 3 p.m.
Thursdays 3 - 5 p.m.
other hours by appointment (please email)

CLASS TIME and LOCATION

ED 101　　Tuesdays and Thursdays　　　9:30 - 10:50 a.m.

TEXT

Bennett, A. B., Jr., & Nelson, L. T. ((2007). *Mathematics for Elementary Teachers: A Conceptual Approach (7th Edition).* Boston: McGraw Hill.

Supplies needed:
　　Manipulative Kit (comes with textbook, needs to be organized and brought to class)
　　Calculator
　　binder with dividers
　　colored pen (green, red or purple ink)
　　straight-edge (e.g., ruler)

LIVETEXT

Submission of assignments as identified by instructor require a *LiveText* account. Login to *LiveText* at www.livetext.com

CATALOG DESCRIPTION

This course is a foundation for prospective early childhood and elementary education majors with pre-K to 8 mathematics. Guided by NCTM Standards and through the study of concepts and properties of number systems; the four fundamental operations of arithmetic; the basic knowledge in data; the shapes, measurement and transformation of geometric figures; and basic concepts in prealgebra, the student will be able to undertake further study in

mathematics education. This course fulfills the general education requirement in mathematics for Early Childhood Education and Elementary Education majors.

MAJOR COURSE TOPICS

1. Problem Solving
2. Number Theory
3. Whole Number Operations
4. Fractions
5. Algebra, Functions, Graphs
6. Ratio and Proportion
7. Geometry
8. Measurement

PROGRAM OUTCOMES

HI-CHAM-ED-BS-EE.1   PLAN: The successful candidate will design meaningful learning experiences that incorporate knowledge of content, students, learner outcomes, pedagogy, and assessment for grades K-6.

STUDENT LEARNING OUTCOMES (SLO)

Outcomes	How will outcome be achieved?
Demonstrate math content knowledge required for further study in mathematics education.	Math Praxis PPST Tests
Use problem solving skills to investigate real life mathematical situations, formulate valid questions from problem situations, and represent situations verbally, numerically/symbolically, graphically, and/or geometrically.	Class activities, homework, tests and quizzes, Math Log Project.
Develop an appreciation for mathematics as a body of knowledge that is interesting and useful.	Math History Project

ACADEMIC REQUIREMENTS

Signature Assignment: Math Praxis PPST Practice Tests OR passage of Praxis I prior to the end of the semester	60 pts.
Other Assignments:	
Class activities	50 pts.
Homework	50 pts.
Projects and Presentations	30 pts.

Tests and Quizzes	60 pts.

Grading Scale

225 - 250 points	A
200 - 224 points	B
175 - 199 points	C
150 - 174 points	D
Below 150	F

UNIVERSITY POLICIES

Attendance

Students are expected to attend regularly all courses for which they are registered. Students should notify their instructors when illness prevents them from attending class and make arrangements to complete missed assignments. Notification may be done by calling the instructor's campus extension, or by leaving word at the Faculty Services Office (735-4739). It is the instructor's prerogative to modify deadlines of course requirements accordingly. Any student who stops attending a course without officially withdrawing may receive a failing grade. Unexcused absences equivalent to more than a week of classes may lead to a grade reduction for the course. Any absence of two weeks or more must be reported to the Associate Provost and the Records Office by the instructor.

The student is responsible for making up any work missed during an excused absence. It is the student's responsibility to contact the instructor prior to the next class meeting to determine make up work for the missed class. Points will be deducted from the overall grade (up to 4 points per occurrence) for an unexcused absence or for an excused absence for which work is not made up.

Writing Standards

All work submitted by Chaminade University students must meet the following writing standards. Written assignments should:

1. Use correctly the grammar, spelling, punctuation, and sentence structure of Standard Written English.
2. Develop ideas, themes, and main points coherently and concisely.
3. Adopt modes and styles appropriate to their purpose and audience.
4. Be clear, complete, and effective.
5. Carefully analyze and synthesize material and ideas borrowed from sources. In addition, the sources of the borrowed material should be correctly acknowledged to avoid plagiarism.

Plagiarism - "Plagiarism is the offering of work of another as one's own. Plagiarism is a serious offense and may include, but is not limited to, the following:

1. Complete or partial copying directly from a published or unpublished source without proper acknowledgment to the author. Minor changes in wording or syntax are not

sufficient to avoid charges of plagiarism. Proper acknowledgment of the source of a text is always mandatory.

2. Paraphrasing the work of another without proper author acknowledgment.
3. Submitting as one's own original work (however freely given or purchased) the original exam, research paper, manuscript, report, computer file, or other assignment that has been prepared by another individual.

Incomplete - An incomplete (I) may be given to a student who did not complete a portion of the work or final examination due to circumstances beyond the student's control. The incomplete contract must be signed by the student and the instructor. The work must be completed in 90 days or the incomplete will revert to the grade that the student would have earned. This grade and the date the work is due will be specified on the incomplete contract.

Please refer to your **Student Handbook, General Catalog,** and the **Education Division Policy Manual** for other important institutional and academic policies including more detail information regarding Classroom deportment, Freedom of Expression, Add/Drop, Disabilities, and others.

WEEKLY SCHEDULE

Week	Date	Major Topic	Required Reading Assigned Problems are due at the beginning of class on the following Tuesday, unless otherwise stated.
1	Jan. 15, 17	Problem Solving	Section 1.1
2	Jan. 22, 24	Problem Solving	Section 1.2, 1.3
3	Jan. 29, 31	Sets, Functions, and Reasoning	Sections 2.1, 2.2
4	Feb. 5, 7	Sets, Functions, and Reasoning	Sections 2.2, 2.3
5	Feb. 12, 14	Whole Numbers	Sections 3.1, 3.4
6	Feb. 19, 21	Number Theory	Sections 4.1, 4.2
		Midterm Test 1	Chapters 1 - 4
7	Feb. 26, 28	Integers	Section 5.1
8	Mar. 4, 6	Fractions	Section 5.2, 5.3
9	Mar. 11, 13	Ratio and Proportion and Scientific Notation	Sections 6.3
10	Mar. 18, 20	Geometry	Section 9.1, 9.2
11	Apr.1, 3	Geometry	Sections 9.3, 9.4
		Midterm Test 2	Chapters, 5, 6, 9
12	Apr. 8, 10	Measurement	Section 10.1
13	Apr. 15, 17	Area, Perimeter, and Volume	Sections 10.2, 10.3
14	Apr. 22, 24	Motion Geometry	Section 11.1

15	Apr. 29, May 1	Review	
		Final Exam	

Subject to change.

Required Problems

Date Due	Problems	Other Assignments
Tuesday, 1/22	1.1: #2, 12, 15, 20, 24	
Tuesday, 1/29	1.2: #5, 6, 7, 8, 28, 29, 40, 42 Writing & Discussion #2 1.3 #6, 10, 20, 24, 28, 35	

WebLinks

Created with LiveText - livetext.com