

**COURSE INFORMATION SHEET
& SYLLABUS**
Messiah College
"Christ Preeminent"

MATH 407: Secondary Mathematics Curriculum and Instruction -- 2786 -- FREY 345

Fall 2009 Semester (October 12 – December 14, 2009)

M 6:00pm - 7:30pm

Instructor: Mr. Jeffrey Schwartz

Email: JSchwartz@Messiah.edu

Mailing Address: Messiah College, Box 3041, Grantham, PA 17027
(Alternate Mailbox Location: Frey 222)

Office Hours: M 5:30pm - 6:00pm
Frey 345

Phone: 448-3397 (cell)

Text: *Middle And Secondary Classroom Management: Lessons from Research And Practice*, by Carol Simon Weinstein, 3rd ed. 2007, McGraw-Hill, ISBN 13-9780-0730-1039-7.

Prerequisite:

Concurrent enrollment in EDU 420, EDU 435, and PSY 311
Admission to the Professional Semester

Course Objectives: Upon successful completion of this course, the student will be able to:

1. To apply state and national curriculum guidelines in mathematics education (PCTM, NCTM) to planning and teaching.
2. To describe and apply appropriate models for making decisions about mathematics curricula.
3. To identify and evaluate curricular and instructional issues related to professional ethics and Christian scholarship.
4. To apply appropriate instructional strategies.
5. To plan instruction that is unique to mathematics education.
6. To apply assessment strategies and techniques for record-keeping and grading learning activities.
7. To apply strategies for managing the instructional environment.
8. To apply strategies for adapting instruction to the needs of exceptional learners.
9. To evaluate and apply appropriate instructional technology.
10. To become a participant in the professional development of mathematics educators.

Course Description and Requirements: In order to satisfy the above objectives, we will be discussing issues related to secondary mathematics curriculum and instruction, as indicated on the attached course calendar. This course is designed in a seminar format, which means that you will be asked to complete assignments related to a topic before the class on that topic, so that you are able to participate and lead class discussion. This course also focuses on practical instructional issues as they connect with your student-teaching assignment. In class discussions you are expected to regularly share your teaching experiences. I encourage you to use this course and fellow classmates as resources in your student-teaching, as well as a natural place to bring your questions about teaching.

Grading: Your performance in this course will be assessed primarily according to your performance on the written and oral assignments listed below. The grade you received from the September portion of class with Dr. Hare will be weighted as one-third of the course grade. My class will count as the remaining two-thirds. The percentages should be viewed only as a guideline, as the number of assignments may vary.

Writing Assignments (7 @ 25 pts each):	175 points
Demonstration Lesson:	50 points
Final exam:	50 points
Attendance:	<u>25 points</u>
	300 points total

Your percentage will be converted into a letter grade as follows: 92 - 100 = A; 90 - 91 = A-; 87 - 89 = B+; 81 - 86 = B; 79 - 80 = B-; 75 - 78 = C+; 65 - 74 = C; 63 - 64 = C-; 50 - 62 = D.

Final Exam: The final examination is scheduled for Monday, December 14, 7:00 to 9:00 pm in Frey 345. Please make a note of this date as you make travel arrangements. Travel conflicts are not a sufficient reason for exceptions to the final exam schedule.

Weather Emergencies: Students may call 691-6084 to find out if classes are canceled due to weather-related conditions. If I am ever unable to make a scheduled class, I will make every effort to contact you via email or phone.

Special Accommodations: Any student whose disability falls within ADA guidelines should inform the instructor at the beginning of the semester of any special accommodations or equipment needs necessary to complete the requirements for this course. Students must register documentation with the Office of Disability Services.

MAT 407 (tentative)
M 6:00 - 7:30 pm Frey 345

- October 12: Topics in Education
Attitudes Survey
- October 19: Chapters 1 & 2: MSCM
Writing Assignment 1 due
Demonstration Lesson
- October 26: Chapter 3 & 4: MSCM
Writing Assignment 2 due
Demonstration Lesson
- November 2: Chapters 5 & 6: MSCM
Writing Assignment 3 due
Demonstration Lesson
- November 9: Chapters 7 & 8: MSCM
Writing Assignment 4 due
Demonstration Lesson
- November 16: Dinner with Teaching Alumni: PDR
Writing Assignment 5 due
- November 23: Chapters 9 & 10: MSCM
Writing Assignment 6 due
Demonstration Lesson
- November 30: No Class: Thanksgiving break
- December 7: Chapters 11, 12, & 13: MSCM
Writing Assignment 7 due
Demonstration Lesson
- December 14: ***Final Exam: 7:00-9:00 in Frey 343***