

## SYLLABUS

MATH 283 (Introduction to Concepts of Mathematics)  
Spring 2007

Instructor: Dr. Jerzy Wojciechowski

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Class Hours: M, W, F 9:30 am – 10:20 am in 315 Armstrong

Office Hours: M, W, F 10:20 am – 10:50 am, or by appointment

Text: D. SMITH, M. EGGEN, R. ANDRE, **A Transition to Advanced Mathematics**,  
6th Edition, Thomson, ISBN 0-534-39900-2

### COURSE GOALS:

1. How to understand and write proofs: including proofs involving quantifiers and proofs by induction.
2. How to understand the concepts and proofs involving: sets, indexed families of sets and set operations.
3. How to understand the concepts and proofs involving: relations and functions.

### STUDENT EFFORT:

1. Attend all classes. Taking good notes helps you to be an attentive and active participant and your notes can serve as a good study guide. Students absent from classes for any reason are responsible for the material presented.
2. Read the textbook. This will provide further explanation and additional examples.
3. Work the assigned problems. To do well on the tests and quizzes it is essential to work all the assigned problems.
4. Consult the instructor and/or other students in the class whenever you have difficulty understanding a part of the material. If you cannot come during the office hours, do not hesitate to schedule an appointment. Feel free to interrupt the instructor and ask any questions during the class.

### GRADING:

1. The course grade will be determined by 17 unannounced quizzes worth 10 points each, four tests worth 100 points each, and a comprehensive final exam worth 200 points.
2. Quizzes will be **unannounced** and there will be **no make-up quizzes**. Two worst quiz scores will be dropped.

3. Make-up tests will be given only under very exceptional circumstances (University approved excuse is necessary) and must be arranged **before the scheduled test**.  
WARNING: out of fairness to the students who take the test the scheduled time, a makeup test will be **harder** than the regular test, to reflect the extra time to prepare.
4. Attendance may be taken into account in borderline situations.
5. The percentage of possible points required for each letter grade is:  
A – 90%    B – 80%    C – 70%    D – 60%.

#### SCHEDULE:

The material to be covered will be split into five parts.

- Part 1 — sections 1.1, 1.2, 1.4, 1.5;
- Part 2 — sections 1.3, 1.6, 1.7;
- Part 3 — sections 2.1 – 2.4;
- Part 4 — sections 3.1 – 3.4;
- Part 5 — sections 4.1 – 4.5.

Each part will take about 3 weeks to cover. After each of the parts 1–4, there will be a test scheduled about a week after finishing the part.

Final exam: Monday 04/30, 8:00 am – 10:00 am, 315 Armstrong Hall.