

MA 105A MATH FOR LIBERAL STUDIES (FALL 2010)

Time and Place. M,W,F 8:00-9:20, E187

Instructor. Dr. Gabriela Sanchis, 384 G Esbshade Hall, Office Phone: 361-1339

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Office Hours. T, Th: 9-10:30 a.m., 1:00-2:30 p.m.; and by appointment.

Textbook. Survey of Mathematics with Applications (8th Edition) by Allen R. Angel, Christine D. Abbott, and Dennis C. Runde

Prerequisites. MA 011 or Placement.

Course Objectives. The main goal of this course is to instill in students a confident and positive attitude towards mathematics, as well as an appreciation of both its beauty and its usefulness.

Learning Outcomes. Students will be able to:

- Give examples of contributions of mathematics to the modern world.
- Use inductive or deductive reasoning to formulate and evaluate arguments.
- Model real-world phenomena mathematically.
- Utilize mathematics effectively in problem-solving strategies.

Attendance. You are expected to attend all classes. Excessive amounts of absenteeism may result in a lower grade. If you do miss a class, it is your responsibility to obtain from a classmate any notes, assignments, handouts, or anything else you may have missed.

Content. We will cover selected topics from the following list, as time permits: critical thinking skills, sets, logic, systems of numeration, number theory, algebra, linear equations, systems of linear equations and inequalities, consumer mathematics, and probability.

Assignments. I will assign homework problems from the book. These will be posted on Blackboard. Homework assignments should be hand-written, neatly, stapled together and brought to class on the due date (usually the next class). Solutions to each homework problem must be written clearly and legibly, with enough detail included to indicate the solution method. Homework will be collected and several problems will be randomly selected for grading. The remaining ones will be spot-checked. **No late assignments will be accepted.** The four lowest homework grades will be dropped.

If you experience difficulties with the homework, do not hesitate to seek additional help. The following help options are available:

- (1) **Office hours** - These are listed at the beginning of the syllabus. Please bring all relevant homework assignments with you.
- (2) **Student tutors** Sunday – Thursday evenings (time and place will be posted and announced in class).
- (3) **Learning Center** with private tutor.

In addition, there will be an in-class i>>Clicker assignment about once a week.

Exams. There will be four examinations prior to the final exam. These are scheduled for Friday September 17, and Wednesdays October 6, November 3, and November 24. The comprehensive final examination is scheduled for Friday, December 17, 7:30 to 10:30 a.m.

Makeup Exams. Exams may not be made up except for absolutely unavoidable reasons. If you miss an exam for an acceptable unavoidable reason, then a make-up may be given. It is the student's responsibility to make arrangements for allowable make-ups with the instructor prior to the evening of the originally scheduled exam. If a student misses an exam without talking to the instructor ahead of time or shortly afterwards, he/she will receive a grade of 0 for that exam. Make-ups will cover the same material but will be different from the originally given exam.

Academic Integrity. All work must be one's own and must comply with the Standards of Academic Integrity defined in the Elizabethtown College 2010-2011 Catalog. More specifically, you are encouraged to collaborate on homework assignments, but the final write-up of each assignment must be your own. Some collaboration will be allowed on i>>Clicker assignments. No collaboration on exams is allowed.

Grading. 94-100 A; 90-93 A-; 87-89 B+; 83-86 B; 80-82 B-; 77-79 C+; 73-76 C; 70-72 C-; 67-69 D+; 63-66 D; 60-62 D-; below 60 F

Course grades will be calculated according to the following weighting:

Homework: 15% i>>Clicker Assignments: 10% In-Class Exams: 50% Final Exam: 25%

Disability. Elizabethtown College welcomes otherwise qualified students with disabilities to participate in all of its courses, programs, and activities. If you have a documented disability and require accommodations to access course material, activities, or requirements, you must:

- (1) Contact the Director of Disability Services, Lynne Davies, in the Center for Student Success, BSC 228, by phone (361-1227) or email daviesl@etown.edu.
- (2) Meet with me, the instructor, within two weeks of receiving a copy of the accommodation letter from Disability Services to discuss your accommodation needs and their implementation.