

MA 105A MATH FOR LIBERAL STUDIES (FALL 2012)

Time and Place. M,W,F 2:00-3:20, TH 105

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

E-mail. sanchisgr@etown.edu

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

Textbook. Survey of Mathematics with Applications (9th 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. You should do all of the assigned homework immediately after the topic is discussed in class; if you have difficulty you are encouraged to seek additional help. The following options are available:

- Office hours- These are listed at the beginning of the syllabus.
- Student tutors are available Sunday through Thursday evenings in room E368 (times will be posted in the hallway outside of the room)
- Learning Center with a private tutor.

Quizzes. There will be eight quizzes, tentatively scheduled for Wednesdays September 5, September 12, September 26, October 3, October 24, November 7, November 14, and Monday December 3. Each quiz will consist of questions taken directly from the assigned homework problems. The lowest quiz grade will be dropped.

Exams. There will be four examinations prior to the final exam. These are scheduled for Wednesdays September 19, October 10, October 31, and November 21. The comprehensive final examination is scheduled for Monday December 10, 2:30 to 5:30 p.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 Catalog (see <http://catalog.etown.edu/> and then click on **Academic Policies** in the menu on the left, and then on **Academic Judicial System**). More specifically, you are encouraged to work together on homework assignments. No collaboration on quizzes or 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:

Quizzes: 20% In-Class Exams: 55% 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.