

MA 105A MATH FOR LIBERAL STUDIES (FALL 2011)

Time and Place. M,W,F 8:00-9:20, E380

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

E-mail. sanchisgr@etown.edu

Office Hours. M,W: 2-3:20; T, Th: 11:00-12:00; and by appointment.

Textbook. Mathematics: A Practical Odyssey (7th Edition) by David B. Johnson and Thomas A. Mowrey (with Enhanced WebAssign)

Prerequisites. MA 011 or Placement.

Course Objectives.

- To improve students' quantitative skills.
- 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: logic, sets, probability, statistics, finance, number theory, and geometry.

Assignments. There will be two kinds of homework assignments:

- Online homework, that you will submit through the online homework delivery system WebAssign.
- Hand-in homework assignments consisting of problems from the book, that will be collected and graded. Solutions to these problems must be written clearly and legibly, with enough detail included to indicate the solution method.

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.

Exams. There will be three examinations prior to the final exam. These are scheduled for Friday September 23, Wednesday October 26, and Wednesday November 23. The comprehensive final examination is scheduled for Friday, December 16, 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 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 collaborate on homework assignments, but the final write-up of solutions to hand-in assignments must be your own. 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: 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.