

MA 370 INTRODUCTION TO GEOGEBRA (FALL 2011)

Time and Place. T, Th 9:00-10:50 a.m., E368 (October 25 - December 8)

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

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

Textbook. No textbook required.

Prerequisites. Ma 122.

Course Description. In this course we will explore the software package Geogebra, a free software package developed for teaching and learning mathematics in schools at both the high school and collegiate level. Topics will include geometric constructions, algebraic input, the spreadsheet feature, animations, custom tools, creating dynamic interactive worksheets for the web using Javascript, and creating slide shows for presentations.

Course Objectives.

- To learn the software program Geogebra.

Learning Outcomes. Students will be able to:

- Use Geogebra to make geometric and algebraic constructions.
- Use Geogebra to construct dynamic worksheets that can be exported and embedded into web pages.
- Use Geogebra to construct slide shows for presentations.

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.

Assignments. There will be assignments each class, which you must complete by the due date and save in your class folder in the J drive. There will also be a final project, on a topic of your choosing, which you will present during the final exam time slot, which is Tuesday, December 13, 8:30 to 10:30 a.m. The final project will be worth 20% of your grade, and the weekly assignments will be worth 80% of your grade.

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 assignments, but you may not share your spreadsheets or place them in your public folders on the campus network.

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

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.