

**Gannon University**  
**Math 226, Section 01, Fall 2006**  
**Geometry**  
**TTh 12pm – 1:20pm**  
**T Zurn 122**  
**Th Zurn 432**

**Instructor:** Dr. Geoffrey D. Dietz  
**E-Mail:** dietz005@gannon.edu  
**Office:** Zurn 407  
**Office Phone:** 871-7595  
**Office Hours:** M 1:30pm–4pm, W 1:30pm–3pm, Th 3pm–4pm, or by appointment  
**Text:** **Modern Geometries, 5th Edition.** Smart, 1998.

1. **Web Site:** [http://www.gannon.edu/faculty\\_staff/faculty/dietz005/teaching/F06-226.html](http://www.gannon.edu/faculty_staff/faculty/dietz005/teaching/F06-226.html).
2. **Course Content.** The text is listed above and will be the main source for the class. You are expected to keep up with the reading assignments and be prepared to answer questions in class. We will cover most of Chapters 2, 4, 5, 7, and 9 but not in that order. We will also supplement the text with portions of Euclid's **Elements** and **College Geometry** by Reynolds and Fenton. The former is available online at <http://aleph0.clarku.edu/~djoyce/java/elements/elements.html>. You do not need to own the latter text. You will also learn how to use the software **Geometer's Sketchpad**.
3. **Course Outcomes.** You will learn concepts and techniques of modern geometry, including Euclidean and non-Euclidean geometries, transformations, and constructions. You will also learn how these concepts can be applied to other scientific fields. This course meets the following objectives mandated by the Pennsylvania Department of Education: expression of precise mathematical ideas; representation of functions numerically, symbolically, graphically, and verbally; coverage of measurement and visualization; understanding of axiomatic reasoning; coverage of transformations, coordinates, and vectors; coverage of trigonometry using geometry; usage of geometry software; coverage of Euclidean and non-Euclidean geometry; development of mathematical arguments; and effective and appropriate use of technology.
4. **Evaluation.** Homework or lab assignments will be given approximately once per week and will always be announced ahead of time. The two midterms will be held during regular class time, and the dates may be subject to change.
5. **Grading.** Final grades will be based on  
A: 90–100 B+: 85–89 B: 80–84 C+: 75–79 C: 70–74 D: 60–69 F: 0–59.

The ranges may be widened at my discretion. The grades are weighted as follows:

Exam 1 (Tues. 10/3):	22%
Exam 2 (Tues. 11/14):	22%
Final Exam (Thurs. 12/14 11am–1pm):	35%
Homework / Labs:	21%

6. **Attendance.** Although not required, attendance at every class is highly recommended in order to maximize your success in this course. Regular attendance of scheduled office hours is also recommended if you have additional questions or concerns about any aspect of the course.
7. **Excused Absences.** An excused absence from an exam will only be given when the absence is truly unavoidable and beyond your control. In particular, travel plans will never be grounds for an excused

absence. If you have advanced warning of a situation that will cause you to miss an exam, please discuss it with me as soon as possible so that both of us will know the absence is excused.

8. **Academic Integrity.** Students are assumed to be familiar with the Academic Integrity Policy found in the current edition of the student handbook. Cheating or dishonesty may result in a failing course grade or even expulsion from the University.
9. **Student Disabilities.** Gannon University is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course are requested to speak with me as early in the semester as possible. You must also be registered with The Program for Students with Learning Disabilities prior to receiving accommodations in this course.
10. **Homework Guidelines.**
  - Graded homework in this course must consist of complete, neatly written solutions to the assigned problems. I am very interested in seeing the method of solution, not just the answer. If a final answer is given without a sufficient amount of work, then you may receive little or no credit for the problem.
  - Assignments are due at the beginning of class. No late assignments will be accepted.
  - Print your name and “Math 226” at the top of the first page.
  - Staple all pages of your homework before submission.
  - Label each problem by section and number. The problems should be written out in the proper order when submitted.
  - Discussing the solutions to problems with others is permitted and encouraged. You must, however, turn in your own copy of the homework with your own written solutions unless told otherwise. Photocopying or writing word-for-word copies would constitute academic misconduct.
  - Failure to follow these guidelines may result in the loss of points on assignments.