

GEOMETRY COURSE SYLLABUS
SMITH PREP SPRING TERM 2011
INSTRUCTOR: Matt West

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WEB PAGE: Any resources that are needed will be in the Training Series section of my webpage (<http://www.ProfWest.com>).

CLASS HOURS: 9:15-10:45 THU

A. DESCRIPTION

This course is teaching Geometry, so the basic Algebra skills learned in Algebra I can produce the knowledge necessary to participate in the Advanced Algebra II class. The teacher has determined the subjects that are most necessary to cover, and those are the topics we will cover. If there is an area that you feel we need to cover, please see me during the first month and I will try to make sure it is included. This class also requires that the student have graph paper ready.

B. GRADING PLAN

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|-----------------------|-----|
| 1. Proof Presentation | 20% |
| 2. Tests | 80% |

HOMEWORK:

Homework will be given for every class. Homework is given where the answers are in the back of the book. "Good effort" is expected. This includes diagrams, showing work, copying down the original problem, and following directions. If it is suspected that you are not trying, the right to grade the homework for its correctness is reserved and could influence a drop of one letter grade.

TESTS:

There will be a total of five tests given. They will not be cumulative. They will be weighed equally.

PROOF PRESENTATION:

A presentation encompassing all the skills necessary for a good classical student in the Wisdom or Rhetoric Stage will be required to be given in the final week. The student will be required to present each of four assigned proofs, both logically and persuasively.

C. YOUR IDEAS, EVALUATIONS, ETC.

In general, your ideas, comments, suggestions, questions, etc. are welcome. Your discretion in these matters is expected, however. No part of your grade will be based on anything other than your coursework. I will attempt to teach the material and be very clear about what is on each test or quiz.

D. SUGGESTIONS FOR SUCCESS

If you do the work assigned each week and understand it, you will be set for success. If you decide to not do your work or merely go through the motions and do not understand it, you could find yourself with a very difficult class. If you do not understand the homework one evening, call, email, or text me, so I can help.

E. GEOMETRY IN CLASSICAL EDUCATION

This course should coincide with much of your other learning, as it is based on the proof. We will reinforce skills learned in other areas. The student should certainly not look at this class as a stand alone education.

FALL 2010 WEEK BY WEEK SCHEDULE

January 13, 2011

Trigonometry

January 20, 2011

Law of Sines and Cosines

January 27, 2011

EXAM over Chapter 8
Proof #1 Assigned

February 3, 2011

Circles, Angles, Arcs, and Chords

February 10, 2011

Tangents, Special Segments, and
Graphs

February 17, 2011

EXAM over Chapter 9
with Guest Instructor

February 24, 2011

Polygons, Parallelograms, Rhombi, and
Trapezoids

March 3, 2011

Area, Circumference, Networks, and
Probability

March 17, 2011

EXAM over Chapter 10
Proof #2 Assigned

March 24, 2011

Surface Area of Prism, Cylinders,
Pyramids, and Cones

March 31, 2011

Volume of Prism, Cylinders, Pyramids,
and Cones

April 7, 2011

EXAM over Chapter 11
Proof #3 Assigned

April 21, 2011

Graphing Coordinate Geometry

April 28, 2011

Proofs, Vectors, and Space

May 5, 2011

EXAM over Chapter 12
Proof #4 Assigned

May 12, 2011

Proof Presentations