

Math 3304
MWF 12:30–1:20
BELL 130

GEOMETRY
Syllabus

Spring 2006

Instructor: **Dr. Art Duval**

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phone: **747-6846**/office (24hrs./day; if I'm not in, please leave a message)
545-1788/home (9am–9pm only, please)

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<http://www.math.utep.edu/Faculty/duval/home.html>

Office hours: **Mon, 2–3, Wed, 9–10; Tue, Thu 10–11**. Please feel free to come by my office any time during scheduled office hours. You are welcome to come at other times, but in that case you might want to make an appointment, just to make sure that I will be there then. You can make an appointment simply by talking to me before or after class, by calling me at my office or at home, or by sending e-mail.

You may also ask any questions directly via phone or e-mail. If I'm not in when you call, please leave a message on the voice-mail or answering machine with your name, number, and a good time for me to call you back. I will try to repond to your phone or e-mail message as soon as possible.

Website: <http://www.math.utep.edu/Faculty/duval/class/3304/061/home.html>

Here you will find this syllabus with relevant links, including homework and reading assignments for the whole semester, as they are announced. Other resources may become available.

COURSE OBJECTIVES: Upon successful completion of the course, you will know and be able to discover and prove basic facts from Euclidean geometry, including the concepts of congruent and similar figures, constructions, length, area, volume, transformations, and symmetry.

You will also be able to demonstrate these facts on software such as Geometer's Sketchpad.

Textbook: Geometry Connections, John K. Beem, preliminary version, Chs. 1–4, Sec. 6.1. Copies will soon be available for purchase at one of the UTEP copy centers.

Technology: Geometer's Sketchpad. We will be using Sketchpad extensively in class, both as part of lectures and student activities. A brief introduction to this powerful but remarkably easy-to-use software is in Appendix I of the text. The lab adjacent to our classroom has many open hours, and has Sketchpad on every computer. You may also wish to purchase your own copy for use at home (a link to do this is on the course website).

GRADES:

Participation (5%) A large portion of class time will be devoted to discussions and investigations in small groups and with the whole class. Your active engagement with the material is required at all times. Active engagement does not require knowing all the answers all the time. Active engagement does require an honest effort, and contributing to the ongoing conversation (at the group and classwide levels) at all times. You will not be able to get a good participation grade if you are absent too much.

Homework (45%) Individual homework will be assigned regularly, and due approximately weekly. You are allowed to work together on homework (in fact, I encourage you to do so), but the paper you turn in you must write yourself. Homework is due at the *beginning* of class (12:30 sharp); if you cannot make it to class, arrange to either deliver the homework to me early, or have someone else bring it to class for you. Your lowest homework score will be dropped.

Exams (12.5% each) There will be two in-class exams on the following days:

Fri. 24 Feb.
Fri. 7 Apr.

Each will cover material we have discussed in class to that point and (for the second exam) since the previous exam. Makeup exams can be given only in extraordinary and unavoidable circumstances, and with advance notice.

Final (25%) comprehensive

Fri. 12 May, 1:00 a.m.–3:45 p.m.

Drop date: The deadline for student-initiated drops with a W is Fri., 24 Mar. After this date, you can only drop with the Dean's approval, which is granted only under extenuating circumstances.

I hope everyone will complete the course successfully, but if you are having doubts about your progress, I will be happy to discuss your standing in the course to help you decide whether or not to drop. You are only allowed three enrollments in this course, so please exercise the drop option judiciously.