

Glendale Community College

Department of Architecture

Course Syllabus – Fall 2011-2012

Course Title: Descriptive Geometry (3 Units)
T, Th 3:25 – 6:35pm
Location: AT 220/200
(Class is taught at the same time as Arch 105)

Office Hours: M,W 5:55 – 6:55pm; T, Th, F 2:25 – 3:25pm
Location: AT 223 (Inside AT 220)

Catalog Number: Arch/Engr 103

Instructor: Mr. Dave Martin
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Descriptions: Arch 103
Architecture 103 is an applied science treating of graphic representation of lines, planes, surfaces, and solids. Architectural applications are use for subject matter. Simple shades and shadows. Lecture 2 hours, laboratory 4 hours. (CSU, UC, USC)

Engr 103
Engineering 103 presents a study of a valuable engineering tool which facilitates the solution of engineering problems graphically. A study of lines and planes in space. The representation of surfaces, solids, interferences and intersections. Excellent training in visualization and interpretation of engineering drawings. Lecture 2 hours, laboratory 4 hours. (CSU, UC, USC)

Course Duration: Course is one semester in duration of approximately fifteen (15) weeks.

Prerequisite: One year of architectural or mechanical drawing or Architecture 101 or Engineering 101.

Course Grading System

Area	% Value
Attendance	10
Projects	40
Performance Tests	25
Portfolio	10
Final Performance Test	15
Total	100%

- All work is graded based on a percentage and is averaged to find the total grade.
- All projects will be graded on a 100-point grading system.

Required Text and Materials: Arch 103 Descriptive Geometry Lab Manual, Dave Martin, 2006, Glendale Community College, Glendale, Ca

- The proper tools. (An architectural or engineering drafting kit is available in the bookstore.)
- Dividers, Metric Scale, and additional lead holders (.3mm, .5mm, and .7mm).
- A supply of "A" Size (8½"x11") vellum. Buy the type without the preprinted title block.
- A Flash Drive (1GB minimum) is required for students completing the assignments using the AutoCAD software program.

Recommended Text: Descriptive Geometry, E.G. Pare', 1997, Prentice-Hall, Inc., Upper Saddle River, NJ. ISBN: 0-02-391341-X
(Currently out of print, used copies may be available on-line.)

Attendance Policy

Attendance is worth 10% of the overall grade. The attendance grade is calculated as follows:

1 Absence = 80%, 2 Absences = 60%, 3 Absences = 40%, 4 Absences = 20%

Attendance is taken at the beginning of class. If a student is late more than 15 minutes then a ½ absence will be counted toward the attendance grade. Students may also be dropped from a class for excessive absences. If a student misses the equivalent time the class meets in a two-week period then the student may be dropped (page 43, GCC catalog). Certain absences will be excused at the discretion of the instructor.

If a student does miss a class it is extremely important that they contact the instructor as soon as possible. Since it is difficult to make up missed class time, it is important that the student attend every class meeting!

Academic Honesty

It is extremely important the students are honest in their education. It is unacceptable for a student to copy the work of another student and turn it in as their own. This includes drawings, answers on tests and quizzes, and other work done either inside or outside the lab. If a student is caught cheating that assignment will receive a failing grade and further disciplinary action will be taken (i.e. being dropped from the course). Please refer to the GCC catalog for further information.

Grade Change Policy

It is the policy of the Instructor and Glendale College to only allow grade changes for the following reasons:

- Clerical error on the part of the instructor.
- Computer problem (technical error during submission of grade by instructor).
- Reevaluation of student's work (at instructor's discretion).
- Grade change from an incomplete (I) grade.

Unless arrangements are made with the instructor prior to the end of the semester, the grade given is the final grade. Grades ***will not*** be changed by the instructor for work that is turned in after the end of the semester.

Electronic Device Policy

It is the policy of the department to only allow electronic devices to be on in class if they are in silent or vibrate mode. If the student receives a call during class they must either ignore it or leave the room to answer. Text messaging is only allowed outside of the classroom during lecture. Students may text message during open lab as long as they are not disturbing other students.

Students with Disabilities

All students with disabilities requiring accommodations are responsible for making arrangements in a timely manner through the Center for Students with Disabilities. Although not required, the instructor should be notified by the student of any special needs.

Class Requirements and Instructor Expectations

- All work must be completed in the classroom. Work completed outside the room will not be graded.
- Drawings will be collected/graded twice during the semester, once on the due date and again at the end of the semester.
- All work is due on or before the date given.
- All work will be graded in pencil on the original drawing. CAD versions will be graded on printed drawing.
- It is your responsibility to make sure that your workstation is clean at the end of each class meeting.
- Some drafting tools are available for student use. Please do not remove these from the classroom without permission from the instructor.

Student Learning Outcomes (SLOs)

1. Students will demonstrate their knowledge of descriptive geometry through a series of lectures and work book assignments.
2. Students will be able to calculate various facts about lines, surfaces, and shapes through only graphical means.
3. Students will develop an ability to evaluate a descriptive geometry problem to determine the method of finding the solution.
4. Students will demonstrate the ability to create flat pattern developments in relation to architectural design.

Internet and Lab Access

- A Blackboard page has been created for this class. Go to <http://bb.glendale.edu/webct/> for access. Use for student ID# for your login. For those students new to Blackboard, your initial password will be your birth date (MMDDYY).
- Handouts, Syllabi, Grades and other information will be available on the Blackboard page.
- Drawing and performance test template files will be on Blackboard page.

Arch/Engr 103 - Weekly Schedule

<u>Week</u>	<u>Description of Topics</u>
1 (8/30, 9/1)	Introduction, Syllabus File/Drawing Setup Begin Chapter 1 Projects
2 (9/6, 9/8)	Discuss & Demonstrate Projects 1a – 1g
3 (9/13, 9/15)	Discuss/Demo Projects 2a – 2d Performance Test #1
4 (9/20, 9/22)	Review Performance Test #1 Solution Discuss/Demo Projects 2e – 2i Projects 1a – 1g Due
5 (9/27, 9/29)	Discuss/Demo Projects 2j – 2m Projects 2a - 2d Due
6 (10/4, 10/6)	Projects 2e – 2k Due
7 (10/11, 10/13)	Discuss/Demo Projects 3a – 3d Projects 2l – 2m Due
8 (10/18, 10/20)	Discuss/Demo Projects 3e – 3j Performance Test #2 Projects 3a – 3d Due
9 (10/25, 10/27)	Discuss/Demo Projects 4a – 4d Projects 3e – 3j Due
10 (11/1, 11/3)	Discuss/Demo Projects 4e – 4f Performance Test #3 Projects 4a, 4b Due
11 (11/8, 11/10)	Discuss/Demo Projects 5a – 5d, 6a, 6b Projects 4c – 4f Due
12 (11/15, 11/17)	Discuss/Demo Projects 6c, 7a Performance Test #4 Projects 5a – 5d, 6a, 6b Due
13 (11/22)	Discuss/Demo Projects 7b, 7c Projects 6c, 6d, 7a, 7b Due (11/24 – No Class – Thanksgiving Holiday)
14 (11/29, 12/1)	Discuss/Demo Projects 8a – 8d
15 (12/6)	Remaining Projects Due, Final Performance Test Practice 12/8 - Last Meeting 1:30-4:00pm - Final Performance Test Portfolio Due

Notes:

1. Schedule is subject to change.
2. On weeks with a performance test scheduled, the test will be given on Thursday.
3. All projects are due on Wednesday of the given week.
4. Late work will be penalized 20%.