

EG 2080 Introductory Computer Aided Design

Course Information – Winter 1999

Instructor	Jaime P. Santiago Office Phone E-mail	Department of Science and Technology J209 539-2865 santiago@gprc.ab.ca
Schedule	Lecture Laboratory	18:30 – 20:30 Wednesday 18:30 – 20:30 Thursday
Web Page	www.gprc.ab.ca/courses_and_programs/engineering/eg2080.html	
Lectures	Technical graphics and design using freehand sketching techniques. Introduction to Windows 95/NT, Web browser, E-mail, FTP, Windows/NT Explorer AutoCAD Release 14	
Laboratories	Laboratories are basically a self-paced tutorials using the required textbook. The instructor is available during lab times to help students do the tutorial lessons and troubleshoot individual problems. The regular laboratory time is not sufficient to finish the required assignments. You will have to spend time each week outside the regular lab time. You may use the lab at any time it is not booked for another course. The instructor will arrange access to the labs.	
Assignments	All homework for marking is due at 9:00 p.m. on Wednesdays unless otherwise specified. Late assignments will be penalized at 20% per day late. Assignments will consist of work on paper to be handed in to the instructor and computer/drawing files to be submitted electronically via FTP.	
Project	In the latter part of the course you will concentrate on a CAD project of your own choice. The project must first be approved by the instructor. It may be primarily two-dimensional. Examples of projects would be home floor plans, kitchen/bathroom redesign, landscaping, designing textile patterns, creating catalogs and brochures, etc.	
Marks Distribution	Term Work Midterm Project Final	20% 20% 30% 30%
Required Texts	T. T. Wohlers: <i>Applying AutoCAD – for AutoCAD Release 14</i> G. S. Hoye: <i>Freehand Sketching for CAD</i> (buy copy from instructor)	
Materials	3.5" floppy disks pencil sharpener eraser 3 scales printer paper	1.44 MB PC formatted HB drafting pencil triangular metric, engineers (decimal inch) and architect for laser printer

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Course Objectives

I.

- Have a working knowledge of Windows NT, NT Explorer, Internet Explorer, Netscape Navigator, FTP and email.
- Operate AutoCAD Release 14 for Windows 95 or NT.
- Explain the features, limitations, and considerations associated with the commands and characteristics of AutoCAD.
- Utilize AutoCAD's mode settings, drawing aids, shortcuts and other features.
- Produce accurately scaled drawings.
- Apply AutoCAD to a specific drafting discipline, such as architectural drafting, mechanical drawing, interior design, landscape design, textile design, etc.

II.

- Operate a microcomputer using the Windows NT operating system.
- Be able to output properly scaled drawings to a laser printer.
- Use the operating system to organize and manage computer files.
- Demonstrate a general working knowledge of Windows operations and applications.
- Be able to use internet applications such as web browsers, ftp clients and email clients.

III.

- Explain the basic principles of design.
- Communicate graphics concepts on paper or in AutoCAD.
- Convey information about simple three-dimensional objects using freehand orthographic and pictorial drawings or AutoCAD.