

CURRICULUM GUIDELINES

A:	Division:	Instructional		Date:	01 June 2000	
В:	Department/ Program Area:	Science and Technology		New Course	Revision X	
				If Revision, Section(s) Revised:	A,B,D,F,H,M,N,P,Q	
				Date Last Revised:	29 October 1986	
C:	APSC 1	10 D: Co	omputer-Ai	ded Engineering Graphics	E: 3	
	Subject & Cou	arse No.	Desc	criptive Title	Semester Credits	
F:	Calendar Description: This course is intended for students proceeding to studies in Applied Science/Engineering. It is divided into two parts. The first half is an introduction to the study of orthographic projections, technical sketching, engineering drawing, the language of graphics. The second half provides an introduction to AutoCAD. This course will help the student to develop the ability to visualize in three dimensions.					
G:	Allocation of Contact Hours to Type Instruction/Learning Settings	ontact Hours to Types of rning Settings	H: Course Prerequisites: B.C. Principles of Math 12 (C or higher)			
	Primary Method	ls of Instructional Delivery and/	/or			
	Learning Setting	Learning Settings: Lecture/Laboratory Number of Contact Hours: (per week / semester for each descriptor) 5		L Course Corequisites:		
	Lecture/Labora					
	Number of Cont for each descrip			J. Course for which this Course is a Prerequisite:		
	5					
	Number of Weeks per Semester: 14		К.	K. Maximum Class Size: 35		
L:	 PLEASE INDICATE: Non-Credit College Credit Non-Transfer 					
	X College Credit Transfer: Requested Granted X					
	SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)					

M:	Course Objectives/Learning Outcom		
	The student will be able to:		

- 1. Demonstrate an ability to translate from one to another of
 - the solid
 - pictorial representation
 - orthographic representation
 - verbal description
 - mental picture
- 2. Demonstrate an ability to prepare pictorial and orthographic sketches and drawings.
- 3. Analyze and solve 3-dimensional problems by graphical means.
- 4. Read drawings
- 5. Plan and produce proper 2-D engineering drawings with AutoCAD.

N: Course Content

- 1. Introduction to Projection
- 2. Geometric Construction
- 3. Orthographic Sketching from Pictorial
- 4. Orthographic Sketching from Object
- 5. Missing Views (isometric and orthographic)
- 6. Sectioning
- 7. Dimensioning
- 8. Engineering Geometry
- 9. Introduction to AutoCAD
- 10. AutoCAD Drawing Functions
- 11. AutoCAD Object Selection & Editing
- 12. AutoCAD Layers & Blocks
- 13. AutoCAD Dimensions
- 14. Creating & Printing Basic Engineering Drawing in AutoCAD

O: Methods of Instruction

The course consists of one - one hour lecture per week and two - two hour laboratory sessions per week. Assignments are to be handed in at the end of each lab session. Late assignments will not be marked. Reading assignments will be given in advance and it is assumed that the student will do the required reading before entering class.

P: Textbooks and Materials to be Purchased by Students

Earle, J.H. <u>Engineering Design Graphics</u>, 10th ed., Addison Wesley, 2000 Set of Drawing Equipment.

Q: Means of Assessment

The final grade assigned for the course will be based upon the following components:

- a) assignments (maximum of 20) 40%
- b) two tests administered during the semester 30%
- c) final examination 30%

R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR

Course Designer(s)

Education Council/Curriculum Committee Representative

Dean/Director

Registrar

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