

EFFECTIVE: SEPTEMBER 2004 CURRICULUM GUIDELINES

А.	Division:	Education	Ef	fective Date:		September 2004		
B.	Department / Program Area:	Science and Technology	Re	evision	X	New Course		
	i logiani Alea.			Revision, Section(s)		C		
			D	evised: ate of Previous Revision ate of Current Revision		June 1, 2000 September 2004		
C:	APSC 1110	D: Computer-A	ided	Engineering Graphics	5	E: 3		
	Subject & Cour	1	tive Ti	tle	Sen	nester Credits		
F:	Calendar Descri	ption:						
	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:		ontact Hours to Type of Instruction	H:	Course Prerequisites	:			
	/ Learning Settings			BC Principles of Math 12 (C or higher)				
		s of Instructional Delivery and/or		×		× 8 /		
	Learning Settings:		I:	Course Corequisites:				
	Lecture / Laboratory			none				
	Normhan of Cont	a et Hanna (man maale / anna eter						
	Number of Contact Hours: (per week / semester for each descriptor)		J:	Course for which this Course is a Prerequisite				
	5 hours per week			none				
	Number of Weeks per Semester:		K:	Maximum Class Size:				
	15			35				
L:	: PLEASE INDICATE:							
	Non-Credi	t						
	College Cr	redit Non-Transfer						
	X College Credit Transfer:							
	SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)							

M:	Course Objectives / Learning Outcomes			
	The student will be able to:			
	 Demonstrate an ability to translate from one to another of: 1.1. The solid 1.2. Pictorial representation 1.3. Orthographic representation 1.4. Verbal description 1.5. Mental picture 			
	2. Demonstrate an ability to prepare pictorial and orthographic sketches and drawings.			
	3. Analyze and solve 3-dimensional problems by graphical means.			
	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 and Blocks			
	13. AutoCAD Dimensions			
	14. Creating & Printing Basic Engineering Drawing in AutoCAD.			
0:	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., Engineering Design Graphics, 10th Edition, 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:				
	1. Assignments (maximum of 20) – 40%				
	2. Two tests administered during the semester -30%				
	3. 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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