A POLYTECHNIC INSTITUTION

Course Outline

School of Manufacturing, Electronics and Industrial Processes
Program: Computer-Aided Engineering
Option:

AICO 3045
Architectural Desktop

Start Date:	Jan 17, 2006			**End Date:**	Apr 4, 2006		
Total Hours:	36	**Total Weeks:**	12	**Term/Level:**		**Course Credits:**	3
Hours/Week:	3	**Lecture:**	**Lab:**	**Shop:**		**Seminar:**	**Other:**

Prerequisites

Course No.	Course Name
AICO 2000	AutoCAD 2

AICO 3045 is a Prerequisite for:

Course No.	Course Name

Course Description (required)

How to use the features of Autodesk Architectural Desktop 2006 software in a typical architectural design project. Topics include project-based drawing management, 3D modelling, 2D drawing layout, annotations and design features. Customization techniques and content creation are also discussed.

Detailed Course Description (optional)

Evaluation

Lab Exercises:	10%
Assignments:	60%
Written Exam/Project	NA
Practical Exam	30%
TOTAL	100%

Lab exercises will be completed during class time. They will not be handed in for marking. There will be two assignments which may require time outside of class to complete. There will be no written exam for this course. The Practical Exam will take place during the last session of the course. This exam will cover design development tasks of a small residential or mixed-use project.

Course Learning Outcomes/Competencies

Upon successful completion, the student will be able to:

1. Create, manipulate and visualize 3D models
2. Understand the fundamental concepts for architectural design development and drawing production using an object-based CAD system for architectural design
3. Use these features and improvements productively
4. Improve speed and accuracy in model and drawing creation
5. Present drawings in a more detailed and visually impressive manner.

Verification

I verify that the content of this course outline is current.

Authoring Instructor	2006-1-13 Date

I verify that this course outline has been reviewed.

Program Head/Chief Instructor	Date

I verify that this course outline complies with BCIT policy.

Dean/Associate Dean	2006/01/13 Date

Note: Should changes be required to the content of this course outline, students will be given reasonable notice.

Instructor(s)

David Byrnes | Office Location: SW3 2640 | Office Phone:
Office Hrs.: | E-mail Address: dbyrnes@my.bcit.ca

Learning Resources

Required:

1. Text: Architectural Desktop 2006 Level 1 & Level 2 Courseware
2. Equipment: At least four 3.5" High-Density diskettes. ***The use of a USB Flash Memory device is recommended.*** * Students are encouraged to use the virus scanning software on the computers often.

Recommended:

* The use of a USB Flash Memory drive is highly recommended. You will not be able to copy all project files onto a single diskette. Also, using a flash memory device will allow you to work on the flash drive instead of copying files back and forth to the hard drive.

Information for Students

The following statements are in accordance with the BCIT Student Regulations Policy 5002. To review the full policy, please refer to: http://www.bcit.ca/~presoff/5002.pdf.

Attendance/Illness:
In case of illness or other unavoidable cause of absence, the student must communicate as soon as possible with his/her instructor or Program Head or Chief Instructor, indicating the reason for the absence. Prolonged illness of three or more consecutive sessions must have a BCIT medical certificate sent to the department. Excessive absence may result in failure or immediate withdrawal from the course or program.

Academic Misconduct:
Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances are prohibited and will be handled in accordance with the 'Violations of Standards of Conduct' section of Policy 5002.

Attempts:
Students must successfully complete a course within a maximum of three attempts at the course. Students with two attempts in a single course will be allowed to repeat the course only upon special written permission from the Associate Dean. Students who have not successfully completed a course within three attempts will not be eligible to graduate from their respective program.

Assignment Details

The two assignments will concentrate on performing tasks related to the lecture material. All assignments must be handed in to the network volume, as explained by the instructor. All students are responsible for ensuring their assignments arrive at the correct location on the network. No assignment will be deemed late unless they are submitted after completion of the course.

Schedule

Week of/ Number	Outcome/Material Covered	Reference/ Reading	Assignment	Due Date
17 Jan	Introduction; Floor Plans	Level 1 Module 1		
24 Jan	Specialty Objects	Level 1 Module 2		
31 Jan	Floors and Roofs	Level 1 Module 3		
7 Feb	Project Managem't; Design Content	Level 1 Module 4	Assignment 1	
14 Feb	Building Model Views	Level 1 Module 5		
21 Feb	Documentation	Level 1 Module 6		
28 Feb	Styles & Advanced Object Tools	Level 2 Module 1	Assignment 2	
7 Mar	Drawing Management	Level 2 Module 2		
14 Mar	Creating Custom Content	Level 2 Module 5		
21 Mar	Creating Object Styles	Level 2 Module 6		
28 Mar	Customization	Level 2 Module 8		
4 Apr	Final Exam			