



Douglas College

Course Information

A: Division: **INSTRUCTIONAL** Date: **February 1999**
 B: Faculty: **COMMERCE AND BUSINESS ADMINISTRATION** New Course: **X**
 Program: **COMPUTER INFORMATION SYSTEMS** Revision of Course Information form:
 C: **CISY 600** D: **INFORMATION SYSTEMS II** E: **3**

Subject & Course No. Descriptive Title Semester Credit

F: Calendar Description: This course will explore in greater depth topics in modern information systems analysis and project management introduced in Information Systems I. Topics include: object-oriented analysis, design, and development techniques; project team organization and management; documentation; rapid prototyping. There will be a semester project, carried out through individual and group assignments.

Summary of Revisions:

G: Type of instruction: Hrs per week

Lecture:	2	Hrs.
Laboratory:		Hrs.
Seminar:	2	Hrs.
Clinical Experience:		Hrs.
Practicum:		Hrs.
Shop:		Hrs.
Studio:		Hrs.
Student Directed Learning:		Hrs.
Other (Specify):		
Total:	4	Hrs.
Semester Total (4 x 15 wks):	60	Hrs.

H: Course Prerequisites:
CISY 200 and CISY 300 and (CISY 210 or CISY 270 or CISY 470 or CISY 510)

I: Course Corequisites:

J: Course for which this Course is a Prerequisite:
nil

K: Maximum Class Size:
35

L: College Credit Transfer
 College Credit Non-Transfer
 Non-Credit

M: Transfer Credit: Requested: **X**
 Granted:

Specify Course Equivalents or Unassigned Credit as appropriate:

BCOU
 SFU
 UBC
 UNBC
 UVIC
 Other:

Course Designer(s): **E. van den Bosch**

Vice President, Instruction: **J. McKendry**

Dean: **J. Sator**

Registrar: **P. Angus**

N: TEXTBOOKS AND MATERIALS TO BE PURCHASED BY STUDENTS

Brown, David. An Introduction to object-oriented analysis: objects in plain English, Latest Ed., John Wiley and Sons, Inc.

O: COURSE OBJECTIVES

The student will be able to:

1. Explain modern information systems analysis techniques used in business, society and government;
2. Discuss the importance and use of the "object-oriented systems development life cycle model" (OODLC) in the analysis of information systems;
3. Identify valid objects, classes, and subclasses in a business system;
4. Distinguish between transient and persistent objects, between classes and attributes;
5. Explain the uses of polymorphism, single and multiple inheritance, the multilayer model;
6. Perform basic project management functions like planning and team organization;
7. Use a CASE tool effectively to manage and direct a systems analysis and development project throughout its life cycle;
8. Complete, in a collaborative, team-oriented setting, a scaled-down but realistic term project that will reinforce the concepts learned in the classroom.

P: COURSE CONTENT

1. The Software Crisis; brief history of information systems analysis, and comparison of traditional techniques with OO methodology.
2. Models and Modeling.
3. Objects and Classes; the OO development life cycle.
4. The Requirements Model.
5. Subclasses, inheritance, polymorphism, aggregation.

6. Finding objects and classes in the "Real World".
7. State Transition Diagrams.
8. Responsibilities of and collaboration between Objects.
9. Subsystems.
10. Design, testing and implementation in an OO methodology.
11. OO Databases and Programming Languages.
12. Staffing, training, team building and interpersonal dynamics.

Q: METHOD OF INSTRUCTION

Delivery will be by lecture, case study and assignments. Assignments will include a term project illustrative of professional practice in CIS.

R: COURSE EVALUATION

Assignments and Term Project	30 - 45%
Midterm Examination	25 - 30%
Final Examination	25 - 30%
Participation/Quizzes	5 - 15%
	<u>100%</u>

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