



**DEPARTMENT OF SCIENCE
COURSE OUTLINE – CS3610 FALL 2011
SYSTEMS ANALYSIS AND DESIGN**

INSTRUCTOR: George Ding, C407, ph.539-2031, gding@gprc.ab.ca

OFFICE HOUR: Tuesday 13:00-14:30 and Thursday 13:00-14:30

PREREQUISITE: CS1140

REQUIRED TEXT/RESOURCE MATERIALS:

The text for this course is *Systems Analysis and Design with UML Version 2.0: An Object-Oriented Approach, 3rd Edition* by Alan Dennis, Barbara Haley Wixom, & David Tegarden, ISBN 978-0-470-07478-7.

CALENDAR DESCRIPTION:

By means of lectures and CASE studies you will be introduced to the methods used by Systems Analysts in determining the information needs of an organization. A systems development life cycle will be discussed in detail.

CREDIT/CONTACT HOURS: 3 credits/75 contact hours

DELIVERY MODE(S):

This course includes 3-hour lecture and 2-hour lab per week:

Lecture:	A2	E305	Wed	13:00 – 14:30
			Fri	13:00 – 14:20
Lab:	L1	E301	Fri	14:30 – 16:20

OBJECTIVES:

Upon completion of the course students will become familiar with Systems Development Life Cycle including planning, analysis, design, and implementation, know different system development methodologies, understand the importance of planning, analysis and design before jumping into programming, learn major models of system analysis and design. Emphasis will be placed on object-oriented development using the Unified Modeling Language (UML).

TRANSFERABILITY: AU, KUC.

The transfer agreements set out for this course can be found by visiting the Alberta Council on Admission and Transfer web site: www.acat.gov.ab.ca.

GRADING CRITERIA:

Your final grade will be determined in the following manner:

Assignments	20%
Quizzes & Presentation	10%
Midterm Test I	20%
Midterm Test II	20%
Final Exam	30%

Your final Alpha Grade will be determined using the percentage conversion of the college Grading Policy, which is detailed in the following website:

http://www.gprc.ab.ca/downloads/documents/Grading_Policy.pdf

STUDENT RESPONSIBILITIES:

Students are responsible for all lecture material, labs and readings. If the midterm is missed due to illness the weight will be put on the final. If the final is missed due to illness it will be deferred. A doctor's note and a phone message or email will be required in both cases.

STATEMENT ON PLAGIARISM AND CHEATING:

Please refer to <http://www.gprc.ab.ca/about/administration/policies> for details of GPRC's policy regarding plagiarism, cheating and the resultant penalties. These are serious issues and will be dealt with severely.

COURSE SCHEDULE/TENTATIVE TIMELINE:

Week 1	Introduction and Chapter 1
Week 2	Chapters 1-2
Week 3	Chapters 2-3
Week 4	Chapter 3
Week 5	Chapters 3-4
Week 6	Chapter 4 and Midterm I
Week 7	Chapter 5
Week 8	Chapter 6
Week 9	Chapter 7
Week 10	Midterm II and Chapter 8
Week 11	Chapters 9-10
Week 12	Chapters 10-11
Week 13	Chapters 11-12
Week 14	Chapters 12-13 and Review

SPECIAL NOTES:

The student is responsible for adhering to **all** requirements as specified for each assignment. The assignments are to be turned in at the due date, which is specified in the assignment sheets. Anybody who doesn't attend a lab automatically obtains a zero grade for the corresponding lab assignment. No makeup lab assignment is allowed.