GPRC

DEPARTMENT OF SCIENCE
COURSE OUTLINE – CS1010 FALL 2011
INTRODUCTION TO COMPUTING

INSTRUCTORS: George Ding, C407, ph.539-2031, gding@gprc.ab.ca
David Gregg, C426, ph.539-2976, dgregg@gprc.ab.ca

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

PREREQUISITE: None

REQUIRED TEXT/RESOURCE MATERIALS:

Concepts:	An Invitation to Computer Science 5th ed.
	G. Michael Schneider and J.L. Gersting
	Thomson Course Technology ISBN 0-324-78859-2
Lab Manual:	An Invitation to Computer Science 5th ed.
	C++ Version
	Kenneth Lambert and Thomas Whaley
	Thomson Course Technology ISBN 0-324-78863-0

CALENDAR DESCRIPTION:

This course provides an overview of computing science concepts for students with little or no programming background. Topics include representation of data; machine architecture; operating system concepts; properties of algorithms and computing problems; syntax of a high-level procedural programming language; basic data types and control structures. Students do introductory programming in this course.

CREDIT/CONTACT HOURS: 3 credits/90 contact hours

DELIVERY MODE(S):

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

Lecture:	**A2**	**J203**	**Mon**	**13:00 – 14:20**
			Fri	**11:30 – 12:50**
Lab:	**L1**	**A307**	**Mon**	**14:30 – 17:20**
	L3	**A301**	**Wed**	**08:30 – 11:20**

OBJECTIVES:

Upon completion of the course students will become familiar with general computing concepts and terminology, know introductory computer algorithms, understand Binary Numbering System, learn basic concepts about how Personal Computers get built from both macro and micro level, and gain basic programming skills in both low-level and high-level programming languages.

TRANSFERABILITY: UA, UC*, UL, AU, KUC*, AUC.

    *Consult Alberta Transfer Guide
    Students receiving grade of D or D+ will
    receive GPRC credit. These grades may not be
    acceptable for transfer to other institutions.

GRADING CRITERIA:

Your final grade will be determined in the following manner:

Lab Assignments	25%
Midterm Test I	20%
Midterm Test II	25%
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 SCHEDULLE/TENTATIVE TIMELINE:

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

SPECIAL NOTES:

No late lab or project assignments will be accepted.

The student is responsible for adhering to **all** requirements as specified for each project/lab assignment.