



**DEPARTMENT OF SCIENCE
COURSE OUTLINE – CS2210 FALL 2014
INTRODUCTION TO PC HARDWARE AND SYSTEMS CONFIGURATION**

INSTRUCTOR: Dr. George Ding **PHONE:** 780-539-2031
OFFICE: C407 **E-MAIL:** gding@gprc.ab.ca

OFFICE HOURS: Tuesday 10:00-11:30 and Friday 10:00-11:30

PREREQUISITE: None

REQUIRED TEXT/RESOURCE MATERIALS:

A+ Guide to Managing and Maintaining Your PC *8th Edition*, Dr. Jean Andrews.
ISBN: 978-133-13508-1

CALENDAR DESCRIPTION:

This course introduces the fundamentals of PC hardware. Students will open up machines, install devices such as hard drives, I/O cards, video cards as well as memory, CD/DVD ROM drives, install operating systems, explore a variety of different software packages, attach communications equipment and supporting software. Topics include system hardware (e.g. motherboards, processors, storage devices, memory), device drivers, operating systems (e.g. Windows, Linux), troubleshooting and maintenance of LAN (Local Area Network)-based PC, etc.

CREDIT/CONTACT HOURS: 3 credits/60 contact hours

DELIVERY MODE(S):

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

Lecture:	A2	G111	Tue	14:30 – 16:20
Lab:	L1	G110	Tue	16:30 – 18:20

OBJECTIVES:

This course is intended to prepare students to support personal computers (PC). Hardware and software configuration are covered so that you can configure and maintain LAN based PCs. Topics to be covered include system hardware (motherboards, peripheral ports, chipsets, processors, storage devices and memory), device drivers, operating systems (Windows, Linux/Unix, and DOS), troubleshooting and maintenance of PC, a review/overview of networks and data communications, and PC peripherals. The labs with this course help you learn hand-on experiences about how to build a computer from parts, how to configure a PC, support PC on LAN, etc.

TRANSFERABILITY: AU, KUC.

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A⁺	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A⁻	3.7	80 – 84	FIRST CLASS STANDING
B⁺	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B⁻	2.7	70 – 72	
C⁺	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C⁻	1.7	60 – 62	
D⁺	1.3	55 – 59	MINIMAL PASS
D	1.0	50 – 54	
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

EVALUATIONS:

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

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 https://www.gprc.ab.ca/files/forms_documents/Student_Misconduct.pdf 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 4-5
Week 3	Chapters 5
Week 4	Chapters 5-6
Week 5	Chapter 2 & Midterm I
Week 6	Chapter 7
Week 7	Chapters 10-11
Week 8	Chapters 12, 14
Week 9	Chapter 15 & Midterm II
Week 10	Chapter 16-17
Week 11	Chapter 18-19
Week 12	Presentations
Week 13	Presentations
Week 14	Review