



**DEPARTMENT OF SCIENCE  
COURSE OUTLINE – CS2210 FALL 2013  
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:** Wednesday 14:30-16:20 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 floppy drives, hard drives, I/O cards, video cards as well as memory, format drives, install operating systems, explore a variety of different software packages, attach communications equipment and supporting software. The course will also deal with memory management issues (autoexec and config files), Ram drives, IRQ settings, environment variables and installing device drivers. Other topics will include issues related to optimizing and fine tuning Windows and Window based applications, and may introduce concepts in contemporary operating systems such as Windows NT and Unix variants such as BSD and Linux.

**CREDIT/CONTACT HOURS:** 3 credits/60 contact hours

**DELIVERY MODE(S):**

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

Lecture:	<b>A2</b>	<b>G111</b>	<b>Tue</b>	<b>14:30 – 16:20</b>
Lab:	<b>L1</b>	<b>G110</b>	<b>Tue</b>	<b>16:30 – 18:20</b>

**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, and so on.

**TRANSFERABILITY:** AU, KUC.

**GRADING CRITERIA:**

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

## 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 <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 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