DEPARTMENT OF SCIENCE

COURSE OUTLINE – CS2210 (FALL 2020)

INTRODUCTION TO PC HARDWARE AND SYSTEMS CONFIGURATION – 3(2-0-2) UT

INSTRUCTOR:	**FRANCO CARLACCI**	**PHONE:**	**780 539 2091**
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OFFICE HOURS: **TBA**

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.

PREREQUISITE(S)/COREQUISITE: NONE

RECOMMENDED TEXT/RESOURCE MATERIALS:

The required textbook is CompTIA A+ Guide to IT technical Support 10*th Edition*, Jean Andrews, Joy Dark, Jill West .

Resources will also be available on BrightSpace.

FALL 2020 DELIVERY: Mixed Delivery. This course is delivered remotely with some face-to-face/onsite components at the GPRC Grande Prairie campus.

- For the remote delivery components: students must have a computer with a webcam and reliable internet connection. Technological support is available through helpdesk@gprc.ab.ca.
- For the onsite components: students must supply their own mask and follow GPRC Campus Access Guidelines and Expectations (https://www.gprc.ab.ca/doc.php?d=ACCESSGUIDE). The dates and locations of the onsite components can be found on the Course Calendar.

COURSE 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.

LEARNING OUTCOMES:

- Students will be able to identify the major components of a computer system
- Students will be able to assemble and disassemble a computer system
- Students will be able to install various operating systems on a computer system
- Student will be able to connect their computer system to a computer network

TRANSFERABILITY:

Athabasca University

King's University College

*Warning: Although we strive to make the transferability information in this document up-to-date and accurate, **the student has the final responsibility for ensuring the transferability of this course to Alberta Colleges and Universities**. Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at Alberta Transfer Guide main page http://www.transferalberta.ca or, if you do not want to navigate through few links, at http://alis.alberta.ca/ps/tsp/ta/tbi/onlinesearch.html?SearchMode=S&step=2

** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability

COURSE SCHEDULE/TENTATIVE TIMELINE:

Week 2	Introduction
Week 3	Chapters 1
Week 4	Chapters 2
Week 5	Chapters 3
Week 6	Chapter 4
Week 7	Midterm 1
Week 8	Chapters 5
Week 9	Chapters 6
Week 10	Chapter 7
Week 11	No class - break
Week 12	Chapter 8
Week 13	Midterm #2
Week 14	Chapter 9

EVALUATIONS:

Lab Assignments	25%
Quizzes	10%
Midterm Test I	15%
Midterm Test II	15%
Final Exam	35%

Students are responsible for all lecture material, labs and readings. If midterms are 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 or a phone message or email will be required in both cases.

For the lab assignments, students will be asked to create a website that documents all the activities that they performed for the labs. Marks for the lab assignments will be divided equally between the webpage that documents your completed task and the task itself. It is the student's responsibility to adhere to ALL requirements of the assignments. Once an assignment has been marked and a grade assigned, no further change/corrections to the webpage will be entertained.

Students are expected to arrive on time for both class and lab. If students are consistently late, they may be barred from attending future classes

Assignments MUST be submitted on their due date. Late assignments will NOT be accepted and will receive a grade of 0.

GRADING CRITERIA:

Please note that most universities will not accept your course for transfer credit if your grade is **less than C-**.

Alpha Grade	4-point Equivalent	Percentage Guidelines		Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100		C+	2.3	67-69
A	4.0	85-89		C	2.0	63-66
A-	3.7	80-84		C-	1.7	60-62
B+	3.3	77-79		D+	1.3	55-59
B	3.0	73-76		D	1.0	50-54
B-	2.7	70-72		F	0.0	00-49

STATEMENT ON PLAGIARISM AND CHEATING:

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Calendar at http://www.gprc.ab.ca/programs/calendar/ or the College Policy on Student Misconduct: Plagiarism and Cheating at https://www.gprc.ab.ca/about/administration/policies

**Note: all Academic and Administrative policies are available on the same page.