

DEPARTMENT Of Science

COURSE OUTLINE – Fall 2023

CS2210 (A2): Introduction to PC Hardware and Systems Configuration – 3 (2-0-2) UT

Northwestern Polytechnic acknowledges that our campuses are located on Treaty 8 territory, the ancestral and present-day home to many diverse First Nations, Metis, and Inuit people. We are grateful to work, live and learn on the traditional territory of Duncan's First Nation, Horse Lake First Nation and Sturgeon Lake Cree Nation, who are the original caretakers of this land.

We acknowledge the history of this land and we are thankful for the opportunity to walk together in friendship, where we will encourage and promote positive change for present and future generations.

INSTRUCTOR: Dr. Mohamed Elgamal **PHONE:** 780-539-2976
OFFICE: C306 **E-MAIL:** melgamal@nwpolytech.ca
OFFICE HOURS: TWR 1:00-2:00 (by appointment)

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

REQUIRED TEXT/RESOURCE MATERIALS:

- The required textbook is CompTIA A+ Guide to IT technical Support 11th Edition, Jean Andrews, Joy Dark, Nicholas Pierce.
- Other resources will also be available on BrightSpace.

DELIVERY MODE(S): In-Person, On-Campus

This course includes 3-hours of lecture per week and a 3-hour lab per week.

Lectures:	G111	F	8:30 – 10:20
Lab: L1	G110	F	10:30 – 12:20
Lab: L2	G110	T	14:30 – 16:20

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

Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at the Alberta Transfer Guide main page <http://www.transferalberta.alberta.ca>.

** 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.**

EVALUATIONS:

Your final grade will be determined in the following manner:

Lab Assignments	45%
Midterm Test I	10%
Midterm Test II	10%
Midterm Test III	10%
Final Exam	25%

Please note that most universities will not accept your course for transfer credit IF your grade is less than C-. Grading Chart:

Alpha Grade	4-point Equivalent	Percentage Guidelines	Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	95-100	C+	2.3	67-69
A	4.0	85-94	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

COURSE SCHEDULE/TENTATIVE TIMELINE:

Week 1	Introduction
Week 2	Chapter 1
Week 3	Chapter 2
Week 4	Chapter 3
Week 5	Chapter 4
Week 6	Midterm I
Week 7	Chapter 5
Week 8	Chapter 6
Week 9	Chapter 7
Week 10	Midterm II
Week 11	Fall Break, No class on Friday Nov 17
Week 12	Chapter 8
Week 13	Chapter 9
Week 14	Midterm III

STUDENT RESPONSIBILITIES:

Students are responsible for all lecture material, labs and readings. 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 as follows: 20% for attending and working the labs, 15% for doing the pages for each lab, and 10% for the final integrated lab website. 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.

STATEMENT ON ACADEMIC MISCONDUCT:

Academic Misconduct will not be tolerated. For a more precise definition of academic misconduct and its consequences, refer to the Student Rights and Responsibilities policy available at <https://www.nwpolytech.ca/about/administration/policies/index.html>.

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