

## SCIENCE DEPARTMENT COURSE OUTLINE – Fall 2023

### CS2020: Technology Tools for Teaching and Learning (1.5-0-3) 75 Hours for 15 Weeks

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:** Franco Carlacci                      **PHONE:** 780-539-2091  
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**OFFICE HOURS:** appointment by email

**INSTRUCTOR:** Dr. Hanna Yehoshyna                      **PHONE:** 780-539-2074  
**OFFICE:** C-302    **E-MAIL:** hyehoshyna@nwpolytech.ca  
**OFFICE HOURS:** appointment by email

#### CALENDAR DESCRIPTION:

This course will provide education students with the basic skills for using the most common information technology tools currently applied in schools. The types of tools include Internet tools, digital media processing, multimedia/hypermedia presentations, spreadsheets, and databases. The course offers a number of advanced modules dealing with more complex topics in these areas plus additional tools such as those for editing digital video and sound.

**PREREQUISITE(S)/COREQUISITE:** None

#### REQUIRED TEXT/RESOURCE MATERIALS:

The text for this course is:

- *Teachers Discovering Computers: Integrating Technology in a Changing World (8th)* by Gunter and Gunter, ISBN: 978-1-285-84543-2



## DELIVERY MODE(S):

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

*For the remote delivery components:*

- students must have a computer with a webcam, headphone or earphones and reliable Internet connection;
- technological support is available through [helpdesk@nwpolytech.ca](mailto:helpdesk@nwpolytech.ca)

This course includes 1.5-hours of lecture per week and a 3-hour lab per week

Lecture:                      A2              Remote                      Wed. 8:30 – 9:50

Labs                              L2              G111                      Tues 14.30 – 17.20

## LEARNING OUTCOMES:

As a result of taking this course, students will gain the ability to:

- use information technology including internet tools, digital media, multimedia/hypermedia presentations, spreadsheets, databases.
- use tools for editing digital video and sound.
- integrate technology into the school curriculum.

## TRANSFERABILITY:

UA, UC, UL, AU, KUC, GMU.

**\*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 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:

*Assignments*                      33%

*Midterm Exam*                      29%

*Final Exam*                      38%

## 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	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:

Weeks	Topics
1	Introduction, Outline, Discussion and Expectations
2	Integrating Educational Technology into the Curriculum
3	Integrating Educational Technology into the Curriculum (cont.)
4	Communications, Networks, the Internet and the World Wide Web
5	Communications, Networks, the Internet and the World Wide Web (cont.)
6	Software for Educators
7	Software for Educators (cont.)
8	Hardware for Educators
9	Hardware for Educators (cont.)
10	<b>Midterm Exam</b>
11	Technology, Digital Media, and Curriculum Integration
12	Technology, Digital Media, and Curriculum Integration (cont.)
13	Online Teaching Technologies
14	Evaluating Educational Technologies and Integration Strategies
15	Security Issues and Ethics in Education
16	<b>Final Exam</b>

- Students are responsible for all material taught, discussed, assigned or presented by the Instructor. It is the student's responsibility to obtain any missed material covered during classes.
- Students take the two examinations at the date and time announced by the Instructor and/or Student Services. 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.
- Documented illness is the only valid excuse for missing an exam. An original medical note will be required in both cases. A grade of 0 may be assigned for any missed exam.
- Students must be prepared for class with the proper books and assignments, and having read and/or completed all assigned material.
- Students are supposed to complete assignments on or before the due the time and date announced by the Instructor
- Students are not permitted to work together on assignments or exams (unless otherwise instructed by the Instructor).

*Course Evaluation Practices:*

- all assignments must be completed as individual efforts unless the Instructor states otherwise;
- tests must be written as scheduled by the Instructor;
- a student must average at least 50% on the tests combined in order to receive credit for this course;
- a student must average at least 50% on the assignments in order to receive credit for this course.

**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.