DEPARTMENT OF SCIENCE

COURSE OUTLINE – WINTER 2016

CS 2020 (A3): Technology Tools for Teaching and Learning 3 (1.5-0-3) 67.5 Hours for 15 Weeks

INSTRUCTOR:	David Gregg	**PHONE:**	780-539-2976
	Libero Ficocelli		780-539-2825
OFFICE:	C-427	**E-MAIL:**	dgregg@gprc.ab.ca
	C-424		lficocelli@gprc.ab.ca
OFFICE HOURS:	TBA		

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:

i) Teachers Discovering Computers: Integrating Technology in a Changing World (8th) by Gunter and Gunter, ISBN: 978-1-285-84543-2
ii) Headphone or earphones with USB or standard 3.5mm plug.

DELIVERY MODE(S):

In class lecture and lab.

COURSE OBJECTIVES:

This course introduces students to:
- common information technology tools including: internet tools, digital media processing, multimedia/hypermedia presentations, spreadsheets, and databases.
- tools such as those for editing digital video and sound
- integrating appropriate technology into school curriculum.

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:

University of Alberta
University of Calgary *
University of Lethbridge *
Athabasca University
Augustana Faculty, University of Alberta
Grant MacEwan University
King's University College *
* An asterisk (*) beside any transfer institution indicates important transfer information. Consult the Alberta Transfer Guide.

*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**

EVALUATIONS:

Lab 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	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

COURSE SCHEDULE/TENTATIVE TIMELINE:

Sequence	Lecture Topics
1	Introduction
2	Integrating Educational Technology into the Curriculum
3	Communications, Networks, the Internet, and the World Wide Web
4	Software for Educators
5	Hardware for Educators
6	Midterm Exam
7	Technology, Digital Media, and Curriculum Integration
8	Online Teaching Technologies
9	Evaluating Educational Technologies and Integration Strategies
10	Security Issues and Ethics in Education
11	Final Exam

During the scheduled labs students will be introduced to various practical ways to integrate technology into the curriculum. The labs will cover the use of: internet tools, digital media, multimedia/ hypermedia presentations, spreadsheets, databases, and tools for editing digital video and sound.

STUDENT RESPONSIBILITIES:

Students must complete all labs on time. Late labs will not be accepted.

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 Admission Guide at http://www.gprc.ab.ca/programs/calendar/ or the College Policy on Student Misconduct: Plagiarism and Cheating at http://www.gprc.ab.ca/about/administration/policies/

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

Additional Information:

CS 2020	Instructor	Room	Day	Time
Lecture A3	David Gregg	D208	Monday	11:30 to 12:50
Lab L1	David Gregg	A307	Tuesday	14:30 to 17:20
Lab L2	Libero Ficocelli	A305	Wednesday	14:30 to 17:20