



DEPARTMENT OF SCIENCE

COURSE OUTLINE – Winter 2018

CS 3990 - Web Based Internet Technology 3 (3-0-3) UT

15 weeks 90 hours

INSTRUCTOR: Franco Carlacci **PHONE:** 780 539 2091
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OFFICE HOURS: TBA

CALENDAR DESCRIPTION:

This course introduces students to various aspects of Internet and web technologies such as HTML/XHTML, CSS, XML, and Javascript/Java through research and project related assignments. The exact topics covered in this course will be at the discretion of the instructor.

PREREQUISITE(S)/COREQUISITE: CS2010

REQUIRED TEXT/RESOURCE MATERIALS:

The text “Web Programming Step-by-Step” Second Edition by M Stepp, J Miller, and V Kirst is a suggested book, but all of the material that we will cover is available online. I will make references to sites such as w3schools.com , css-tricks.com, php.net and jquery.com. Please note that this is not a complete list; I will be adding more throughout the semester.

DELIVERY MODE(S): classroom

COURSE OBJECTIVES:

This course will introduce students to

- HTML and Cascading style sheets (CSS)
- The programming languages Javascript and PHP
- the document object model (DOM)

- XML , JSON and AJAX (asynchronous javascript and XML)
- Web sessions and cookies
- Web security
- principles of web design

LEARNING OUTCOMES:

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

- create both static and dynamic web pages.
- create secure web-based applications that have both a client and server component and can interact with databases

TRANSFERABILITY:

University of Alberta *

University of Calgary

University of Lethbridge

Athabasca University

Augustana Faculty, University of Alberta

* An asterisk (*) beside any transfer institution indicates important transfer information.

Please consult the Alberta Transfer Guide for more information (www.albertatransfer.com)

**** 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:

Assignments (lab and take-home)	45%
Project	10%
term exam	15%
Final Exam	30%

****There is a 30% penalty for late (less than 2 days) assignment. Assignments which are more than 2 days late will not be accepted.****

GRADING CRITERIA:

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**. This means **DO NOT GET LESS THAN “C-” IF YOU ARE PLANNING TO TRANSFER TO A UNIVERSITY.**

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:

1. HTML Basics
2. Cascading Style Sheets (CSS)
3. Page Layout and Forms
4. JavaScript , Event handling and DOM
5. Ajax, XML, JSON
6. Server side programming - PHP, NODE.JS, Databases, SQL
7. Cookies and Sessions
8. Web Security

STUDENT RESPONSIBILITIES:

Students must make an effort to attend ALL classes. If you have more than 5 un-excused absences you may be barred from writing the final exam

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 www.gprc.ab.ca/about/administration/policies/**

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