DEPARTMENT OF SCIENCE

COURSE OUTLINE – Winter 2019

CS 3990 - Web Based Internet Technology 3 (3-0-3) UT
15 weeks 90 hours

INSTRUCTOR:	Franco Carlacci	**PHONE:**	780 539 2091
OFFICE:	C422	**E-MAIL:**	fcarlacci@gprc.ab.ca
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 as well as the two books by Jon Duckett : "Javascript & jQuery" and "HTML & CSS" . I will also 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
- jQuery library
- 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. **All work must be submitted via Moodle; no emailed assignments will be accepted.**

Exams will be written as scheduled. No rewrites will be given. If there is an excusable absence, the weighting of the missed exam will be added to the final exam weighting. If the absence is not excusable, a grade of 0% will be given. Absences due to a medical emergency must be supported by a physician's letter.

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.

Students are responsible for checking their gprcstudents.net email account on a regular basis for any course announcements.

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.