



## COURSE OUTLINE: CSD223 - ADVANCED WEB APPS

Prepared: Fred Carella

Approved: Corey Meunier, Chair, Technology and Skilled Trades

<b>Course Code: Title</b>	CSD223: ADVANCED WEB APPLICATIONS
<b>Program Number: Name</b>	2090: COMPUTER PROGRAMMER
<b>Department:</b>	COMPUTER STUDIES
<b>Semesters/Terms:</b>	20W
<b>Course Description:</b>	The Advanced Web Applications courses uses the content taught in previous courses that delivered the XHTML, as well as the introduction to JavaScript course as a foundation to the every expanding web application technology that fuels everything from personal computing, to corporate applications required to meet the world business needs. This course will focus on two popular areas of web application development: Advanced JavaScript, and JQuery. Students will be collaborating in small groups, as well as polish their presentation skills.
<b>Total Credits:</b>	4
<b>Hours/Week:</b>	4
<b>Total Hours:</b>	60
<b>Prerequisites:</b>	CSD212
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Vocational Learning Outcomes (VLO's) addressed in this course:</b>  Please refer to program web page for a complete listing of program outcomes where applicable.	<b>2090 - COMPUTER PROGRAMMER</b>  VLO 2 Develop, test, document, deploy, and maintain secure program code based on specifications.  VLO 4 Apply knowledge of networking concepts to develop, deploy, and maintain program code.  VLO 8 Conform to workplace expectations found in information technology (IT) environments.
<b>Essential Employability Skills (EES) addressed in this course:</b>	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.  EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.  EES 4 Apply a systematic approach to solve problems.  EES 5 Use a variety of thinking skills to anticipate and solve problems.  EES 6 Locate, select, organize, and document information using appropriate technology and information systems.
<b>Course Evaluation:</b>	Passing Grade: 50%, D
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	The student must pass both the lab and test portions of the course.  Attendance: Sault College is committed to student success. There is a direct correlation between academic performance and class attendance, therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies



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arriving on time and remaining for the duration of the scheduled session.

Absences due to medical or other unavoidable circumstances should be discussed with the instructor. Students are required to be in class on time and attendance will be taken within the first five minutes of class. A missed class will result in a penalty in your marks unless you have discussed your absence with the professor as described above. The penalty depends on course hours and will be applied as follows:

Course Hours Deduction  
5 hrs/week (75 hrs) 1% / hr  
4 hrs/week (60 hrs) 1.5% /hr  
3 hrs/week (45 hrs) 2% /hr  
2 hrs/week (30 hrs) 3%/hr

Absentee reports will be discussed with each student during regular meetings with Faculty Advisors. Final penalties will be reviewed by the professor and will be at the discretion of the professor.

Grade  
Definition Grade Point Equivalent  
A+ 90 - 100% 4.00  
A 80 - 89%  
B 70 - 79% 3.00  
C 60 - 69% 2.00  
D 50 - 59% 1.00  
F (Fail) 49% and below 0.00

CR (Credit) Credit for diploma requirements has been awarded.  
S Satisfactory achievement in field /clinical placement or non-graded subject area.  
U Unsatisfactory achievement in field/clinical placement or non-graded subject area.  
X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.  
NR Grade not reported to Registrar's office.  
W Student has withdrawn from the course without academic penalty.

**Course Outcomes and Learning Objectives:**

Course Outcome 1	Learning Objectives for Course Outcome 1
1. Review validating form data with Javascript	1.1 Study form elements and objects 1.2 Use JavaScript to manipulate and validate form elements 1.3 Learn how to submit and reset forms 1.4 Learn how to validate submitted form data
Course Outcome 2	Learning Objectives for Course Outcome 2
2. Using Object Oriented JavaScript	2.1 Study object-oriented programming 2.2 Learn about the built-in JavaScript objects 2.3 Work with the Date, Number, and Math objects 2.4 Define custom JavaScript objects
Course Outcome 3	Learning Objectives for Course Outcome 3
3. Managing State and Information Security	3.1 Learn about state information 3.2 Save state information with hidden form fields, query strings, and cookies 3.3 Learn about security issues
Course Outcome 4	Learning Objectives for Course Outcome 4



	4. Introduction to the Document Object Model (DOM)	4.1 Learn about dynamic Web pages 4.2 Study the Document Object Model (DOM) 4.3 Work with the Image object 4.4 Create animation with the Image object 4.5 Learn how to cache images						
	Course Outcome 5	Learning Objectives for Course Outcome 5						
	5. Creating Dynamic HTML (DHTML)	5.1 Use JavaScript to modify CSS styles 5.2 Work with CSS positioning 5.3 Create DHTML menus						
	Course Outcome 6	Learning Objectives for Course Outcome 6						
	6. Using JQuery	6.1 Select elements using jQuery syntax 6.2 Use built-in jQuery functions						
Evaluation Process and Grading System:	<table><tr><th>Evaluation Type</th><th>Evaluation Weight</th></tr><tr><td>Labs</td><td>40%</td></tr><tr><td>Tests</td><td>60%</td></tr></table>		Evaluation Type	Evaluation Weight	Labs	40%	Tests	60%
Evaluation Type	Evaluation Weight							
Labs	40%							
Tests	60%							
Date:	August 27, 2019							
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.							

