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| **SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY****SAULT STE. MARIE, ONTARIO**CICE COURSE OUTLINE |
| **COURSE TITLE:** | Web Scripting Languages |
| **CODE NO. :****MODIFIED CODE:** | CSD212CSD212 | **SEMESTER:** | Winter |
| **PROGRAM:** | All I.T. Studies Students |
| **AUTHOR:****MODIFIED BY:** | Dennis OchoskiAmanda Burns, Learning Specialist CICE Program |
| **DATE:** | Jan. 2014 | **PREVIOUS OUTLINE DATED:** | Jan. 2013 |
| **APPROVED:** | “Angelique Lemay” | Jan. 2014 |
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| **TOTAL CREDITS:** | Four |
| **PREREQUISITE(S):** | CSD0120 |
| **HOURS/WEEK:** | Three |
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| *For additional information, please contact the Dean, School of Community Services and Interdisciplinary Studies*  |
| *(705) 759-2554, Ext. 2603* |

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| **I.** | **COURSE DESCRIPTION:**CICE students, with assistance from a Learning Specialist, will be introduced to Client-Side web based applications using JavaScript technology. CICE students will learn JavaScript code that will be cross-browser compatible. The course content will focus on; using JavaScript with well-formed Web pages; work with JavaScript variables and data types and learning how to use the operations that will enable the CICE student to assist with the following; add functions, events, and control structures; use the browser object model; ensuring data that is entered into Web forms is correct before sending to the server; use object oriented programming techniques; manipulate data in strings and arrays; saving state information. It is assumed that student has a basic knowledge of XHTML.  |

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| **II.** | **LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:** |
|  | Upon successful completion of this course, the CICE student along with the assistance of a Learning Specialist, will demonstrate the basic ability to: |
|  | 1. | Introduction to JavaScript |
|  |  | Potential Elements of the Performance:* Basically study the history of the WWW
* Basically work with structured Web Pages
* Learn about the JavaScript programming language
* Add structure to your JavaScript programs
* Learn about logic and debugging
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|  | 2. | Functions, Data Types and Operators |
|  |  | Potential Elements of the Performance:* Basically work with variables
* Learn how to use functions to organize your JavaScript code
* Study data types
* Basically use expressions and operators
* Work with strings
* Study operator precedence
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|  | 3. | Building Arrays and Control structures |
|  |  | Potential Elements of the Performance:* Store data in arrays
* Use basic if statements, if . . . else statements, and switch statements to make decisions
* Nest one if statement in another
* Use basic while statements, do . . . while statements, and for statements to repeatedly execute code
* Use basic continue statements to restart a looping statement
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|  | 4. | The Browser Object Model |
|  |  | Potential Elements of the Performance:* Study the browser object model
* Basically work with the Window object
* Study the History, Location, and Navigator objects
* Use JavaScript to basically refer to windows and frames
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|  | 5. | Validating Form Data with JavaScript  |
|  |  | Potential Elements of the Performance:* Study form elements and objects
* Use JavaScript to basically manipulate and validate form elements
* Learn how to submit and reset forms
* Learn how to validate submitted form data
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|  | 6. | Object Oriented JavaScript |
|  |  | Potential Elements of the Performance:* Study object-oriented programming
* Learn about the built-in JavaScript objects
* Basically work with the Date, Number, and Math objects
* Basically define custom JavaScript objects
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|  | 8. | Debugging JavaScript  |
|  |  | Potential Elements of the Performance:* Study debugging concepts
* Learn how to trace error messages
* Learn how to use comments to locate bugs
* Use the basic Microsoft Script Debugger
* Study additional debugging techniques
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|  | 8. | Managing State and Information Security |
|  |  | Potential Elements of the Performance:* Learn about state information
* Save state information with hidden form fields, query strings, and cookies
* Learn about security issues
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| **III.** | **TOPICS:** |
|  | 1. | Introduction to Java Script  |
|  | 2. | Functions, Data types and operators |
|  | 3. | Building Arrays and Control Structures |
|  | 4. | The Browser Object Model  |
|  | 5. | Validating Form Data with JavaScript  |
|  | 6. | Object Oriented JavaScript  |
|  | 7. | Debugging JavaScript  |
|  | 8. | Cookies and Security |
|  | 9. | Introduction to the Document Object Model (DOM) |
|  | 10. | Dynamic HTML (DHTML) |

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| **IV.** | **REQUIRED RESOURCES/TEXTS/MATERIALS:**JavaScript: The Web Technologies Series 5th EditionDon GosselinISBN10: 0-538-74887-7, ISBN13: 978-0-538-74887-2 |
| **V.** | **EVALUATION PROCESS/GRADING SYSTEM:** Quizzes & Tests 70% Assignments 30% 100% |
|  | The following semester grades will be assigned to students: |

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|  | 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 |
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|  | 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. |  |
| **VI.** | **OTHER EVALUATION CONSIDERATIONS** 1. In order to pass this course the student must obtain an overall

 test/quiz average of **50%** or better, as well as, an overall assignment average of **50%** or better. A student who is not present to write a particular test/quiz, and does not notify the professor beforehand of their intended absence, may be subject to a zero grade on that test/quiz.2. There will be **no** supplemental or make-up quizzes/tests in this  course unless there are extenuating circumstances.3. Assignments must be submitted by the due date according to the specifications of the professor. Late assignments will normally be given a mark of zero. Late assignments will only be marked at the discretion of the professor in cases where there were extenuating circumstances.4. Any assignment/projects submissions, deemed to be copied, will  result in a **zero** grade being assigned to **all** students involved in  that particular incident. 5. It is the responsibility of the student to ask the professor to clarify any assignment requirements. 6. The professor reserves the right to modify the assessment process  to meet any changing needs of the class. |
| **VII.** | **SPECIAL NOTES:** |
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| 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 arriving on time and remaining for the duration of the scheduled session. *It is the departmental policy that once the classroom door has been closed, the learning process has begun. Late arrivers may not be granted admission to the room.*Absences due to medical or other unavoidable circumstances should be discussed with the professor, otherwise a penalty may be assessed. The penalty depends on course hours and will be applied as follows:

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| **Course Hours** | **Deduction** |
| 5 hrs/week (75 hrs) | 1.0% /hr |
| 4 hrs/week (60 hrs) | 1.5% /hr |
| 3 hrs/week (45 hrs) | 2.0% /hr |
| 2 hrs/week (30 hrs) | 3.0% /hr |

Final penalties will be reviewed and assessed at the discretion of the professor.

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| **VIII.** | **COURSE OUTLINE ADDENDUM:** |
|  | This document (**CourseOutlineAddendum.docx**) can be found along with the course outline on ***Desire2Learn (D2L***). |

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Addendum:

Further modifications may be required as needed as the semester progresses based on individual student(s) abilities and agreed upon by the instructor.

**CICE Modifications:**

# Preparation and Participation

1. A Learning Specialist will attend class with the student(s) to assist with inclusion in the class and to take notes.
2. Students will receive support in and outside of the classroom (i.e. tutoring, assistance with homework and assignments, preparation for exams, tests and quizzes.)
3. Study notes will be geared to test content and style which will match with modified learning outcomes.
4. Although the Learning Specialist may not attend all classes with the student(s), support will always be available. When the Learning Specialist does attend classes he/she will remain as inconspicuous as possible.
5. **Tests may be modified in the following ways:**
6. Tests, which require essay answers, may be modified to short answers.
7. Short answer questions may be changed to multiple choice or the question may be simplified so the answer will reflect a basic understanding.
8. Tests, which use fill in the blank format, may be modified to include a few choices for each question, or a list of choices for all questions. This will allow the student to match or use visual clues.
9. Tests in the T/F or multiple choice format may be modified by rewording or clarifying statements into layman’s or simplified terms. Multiple choice questions may have a reduced number of choices.
10. **Tests will be written in CICE office with assistance from a Learning Specialist.**

 ***The Learning Specialist may:***

1. Read the test question to the student.
2. Paraphrase the test question without revealing any key words or definitions.
3. Transcribe the student’s verbal answer.
4. Test length may be reduced and time allowed to complete test may be increased.
5. **Assignments may be modified in the following ways:**
6. Assignments may be modified by reducing the amount of information required while maintaining general concepts.
7. Some assignments may be eliminated depending on the number of assignments required in the particular course.

***The Learning Specialist may:***

1. Use a question/answer format instead of essay/research format
2. Propose a reduction in the number of references required for an assignment
3. Assist with groups to ensure that student comprehends his/her role within the group
4. Require an extension on due dates due to the fact that some students may require additional time to process information
5. Formally summarize articles and assigned readings to isolate main points for the student
6. Use questioning techniques and paraphrasing to assist in student comprehension of an assignment
	1. **Evaluation:**

Is reflective of modified learning outcomes.