



## COURSE OUTLINE: CSD0203 - MOBILE APPS I

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Approved: Martha Irwin, Chair, Community Services and Interdisciplinary Studies

<b>Course Code: Title</b>	CSD0203: MOBILE APPLICATIONS I
<b>Program Number: Name</b>	1120: COMMUNITY INTEGRATN
<b>Department:</b>	C.I.C.E.
<b>Semesters/Terms:</b>	19F
<b>Course Description:</b>	This course provides an introduction to mobile application development using Appinventor 2. Appinventor is a visual design tool that uses blocks to specify application behavior and provides a new way to program applications. The student will apply design concepts and use the Appinventor visual design environment to write applications for Android mobile devices.
<b>Total Credits:</b>	4
<b>Hours/Week:</b>	4
<b>Total Hours:</b>	60
<b>Prerequisites:</b>	There are no pre-requisites for this course.
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Essential Employability Skills (EES) addressed in this course:</b>	<p>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.</p> <p>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>EES 4 Apply a systematic approach to solve problems.</p> <p>EES 5 Use a variety of thinking skills to anticipate and solve problems.</p> <p>EES 6 Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.</p>
<b>Course Evaluation:</b>	Passing Grade: 50%, D
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	<p>The student must pass both the lab and test portions of the course.</p> <p><b>Attendance:</b> 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.</p> <p>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:</p> <p>Course Hours Deduction 5 hrs/week (75 hrs) 1% / hr</p>



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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.

**Books and Required Resources:**

App Inventor 2 by Wolber  
<http://www.appinventor.org/book2>

App Inventor 2 Course in A Box by Wolber  
<http://www.appinventor.org/content/CourseInABox/Intro>

**Course Outcomes and Learning Objectives:**

Upon successful completion of this course, the CICE student, with the assistance of a Learning Specialist will acquire varying levels of skill development relevant to the following learning outcomes:

<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>
1. Preparing the development environment	1.1 Prepare and install software 1.2 Create projects in AppInventor 1.3 Become familiar with the design area, the palette, viewer, components and properties panels 1.4 Develop application functionality with the blocks editor
<b>Course Outcome 2</b>	<b>Learning Objectives for Course Outcome 2</b>
2. Develop Introductory Level Applications	2.1 Define terms and concepts 2.2 Develop graphical user interfaces using buttons, text labels, notifiers, alerts and other components. 2.3 Develop applications that incorporate multimedia: sound, static images, video
<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>
3. Advanced Programming Concepts	3.1 Incorporate the following concepts and constructs in AppInventor in the development of more advanced application



	functionality 3.1.1 Data types, data structures, control structures 3.1.2 Colors 3.1.3 Processing numbers 3.1.4 Checking program states with logic blocks 3.1.5 Manipulate text 3.1.6 Lists 3.1.7 Control
<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
4. Storage and Databases	4.1 Save data locally 4.2 Save data remotely
<b>Course Outcome 5</b>	<b>Learning Objectives for Course Outcome 5</b>
5. Develop Attractive Applications	5.1 Use graphics and animations 5.2 Control processes with a clock 5.3 Measure orientation with orientation sensor 5.4 Determine position with location sensor 5.5 Measure g-force with accelerometer 5.6 Communicate using telephone and sms

**Evaluation Process and Grading System:**

Evaluation Type	Evaluation Weight
Labs	40%
Tests	60%

**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.

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

**B. Tests may be modified in the following ways:**

1. Tests, which require essay answers, may be modified to short answers.
2. Short answer questions may be changed to multiple choice or the question may be simplified so the answer will reflect a basic understanding.
3. 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.
4. 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.

**C. 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.

**D. Assignments may be modified in the following ways:**

1. Assignments may be modified by reducing the amount of information required while maintaining general concepts.
2. 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

**E. Evaluation:**

Is reflective of modified learning outcomes.

**NOTE:** Due to the possibility of documented medical issues, CICE students may require alternate methods of evaluation to be able to acquire and demonstrate the modified learning outcomes

**Date:**

October 4, 2019

**Addendum:**

Please refer to the course outline addendum on the Learning Management System for further information.

