

Fond du Lac Tribal and Community College
COURSE OUTLINE FORM

03/19/19

Please return this form to the college vice president of academic affairs and the chairperson of the Academic Affairs and Standards Council (AASC)

1. Prepared by: _____
2. Date submitted: _____
3. Date approved: 5/14/13 Date revised 3/25/25
4. Department/discipline: Computer Science
5. Department(s) endorsement(s): _____
(Signatures of the person(s) providing the endorsement are required.)
6. Course Title: Write Your Own Mobile Web Apps
Abbreviated course title for Transcripts (25 characters or less): Mobile Web Apps
7. Course Designator: CSCI 8. Course Level: 1010
9. Number of Credits: Lecture 3 Lab _____
10. Control Number (on site) 35 Control Number (online) _____

11. Catalog/Course description:

This is a hands-on introduction to building web sites, games, and "web apps" aimed at mobile devices. HTML5, CSS3, and Javascript are sufficient technologies and promise to deliver broad access and new capabilities on any web-capable device. This course also serves as a survey of web technology and programming.

12. Course prerequisite(s) or co-requisite(s): Accuplacer scores/ Other courses

Prerequisite(s): None

Co-requisite:

13. **Course Materials** (Recommended course materials and resources. List all that apply, e.g. textbooks, workbooks, study guides, lab manuals, videos, guest lecturers).

Text/Handout/Online: HTML5 + CSS + Javascript

Text/Handout/Online: HTML5 Canvas

Suitable mobile device: Iphone/pod or Android device

Web server access (development servers on a FDLTCC machine)

There are several suitable books to use as a textbook. Trade books are the best in this technical area and especially those published by O'Reilly. However, all information is available online from multiple sources in these technical areas, and some online information is decidedly more authoritative. For example, W3C.org sets Internet/WWW standards and generally publishes only online. A practical way to present technical information for a class is in the form of abbreviated "cheat sheets" with references to the online sources.

14. **Course Content** (Provide an outline of major topics covered in course)

This is an introduction/survey course without prerequisites, so the topics below each mean a survey of practical methods for mobile web applications rather than in-depth studies. For example, a short code "snippet" of Javascript can be used to create an interactive menu button, and it is appropriate for students to simply use such code snippets.

0. Internet protocols and WWW
 1. Web page design - classic HTML
 2. HTML5
 3. CSS3
 4. Javascript
 5. Mobile devices - native vs. web apps
 6. Web sites for Mobile devices
 7. Web apps for mobile devices
 8. HTML5 Canvas graphics
 9. Games and Simulations on Canvas
 10. Packaging Mobile web apps - Phonegap
15. Learning Goals, Outcomes, and Assessment
- At FDLTCC we have 4 Competencies Across the Curriculum (CAC) areas. They are as follows:
- A. Information Literacy (the ability to use print and/or non-print tools effectively for the discovery, acquisition, and evaluation of information.)
 - B. Ability to Communicate (the ability to listen, read, comprehend, and/or deliver information in a variety of formats.)
 - C. Problem Solving (the ability to conceptualize, apply, analyze, synthesize, and/or evaluate information to formulate and solve problems.)
 - D. Culture (knowledge of Anishinaabe traditions and culture, knowledge of one's own traditions and culture, knowledge of others' traditions and cultures, culture of work, culture of academic disciplines and/or respect for global diversity.)

Upon completion of this course, the student will be able to:

Learning Outcomes	Competencies (CAC)	Cultural Standards
1. Write an app using HTML5.	C	
2. Write an app using HTML5 and Javascript.	C	
3. Write an app with a Canvas element.	C	1, 4, 5
4. Write an app with a Form accessing a backend server.	C	

WINHEC Cultural Standards:

1. **GIKENDAASOWIN – *Knowing knowledge*:** To develop human beings who value knowledge, learning, and critical thinking and are able to effectively use the language, knowledge, and skills central to an Ojibwe-Anishinaabe way of knowing.
2. **GWAYAKWAADIZIWIN – *Living a balanced way*:** To develop balanced human beings who are reflective, informed learners who understand the interrelatedness of human society and the natural environment, recognize the importance of living in harmony with creation, and are able to apply a systems approach to understanding and deciding on a course of action.
3. **ZOONGIDE'EWIN – *Strong hearted*:** To increase the students' capacity to live and walk with a strong heart, humble and open to new ideas and courageous enough to confront the accepted truths of history and society.

4. **AANGWAAMIZIWIN – *Diligence and caution:*** To develop students' capacity to proceed carefully, after identifying, discussing, and reflecting on the logical and ethical dimensions of political, social, and personal life.
5. **DEBWEWIN – *Honesty and integrity:*** To increase students' capacity to think and act with honesty and integrity as they understand and face the realities of increasingly interdependent nations and people.
6. **ZAAGI' IDIWIN – *Loving and Caring:*** To encourage students' acceptance of the diversity within their school, community, and environment by developing healthy, caring relationships built on respect for all.
7. **ZHAWENINDIWIN – *Compassion:*** To expand students' knowledge of the human condition and human cultures and the importance of compassion especially in relation to behavior, ideas, and values expressed in the works of human imagination and thought.
16. **Minnesota Transfer Curriculum (MnTC):** List which goal area(s) – up to two – this course fulfills.

See www.mntransfer.org

Goal Area(s): _____

Provide the specific learning outcomes as listed on the mntransfer.org website that pertain to this course.

17. Are there any additional licensing/certification requirements involved?

_____ Yes X No

Provide the required documentation to show course meets required licensing/certification standards.

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