# Course Outline

| Program: | Mobile Application Development | |
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| Course Code: | MO1003 | |
| Course Name: | Introduction to Web Programming | |
| Effective From: | Winter 2022 until further revision | |
| Total Course Hours: | 45 | Hours per week: 3 |

**LEARNING OVERVIEW**

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| Course Description: | This course is an introduction to web and webpage programming. The focus of this course is fundamental web applications and interactions. The course introduces HTML5 and CSS3 features and standards with an emphasis on learner application and creativity. Upon completion of the course students should have knowledge of how the internet and applications function by explaining the architecture of a web application, ability to describe the key components of a webpage, and explain the various tools for web distribution.<br><br>Students should be competent in how web pages work, coding a webpage in HTML as well as coding a webpage in CSS3 by understanding advantages using CSS functionality in web design and create and incorporate basic CSS scripts in HTML. |
| Textbook: | Robbins, Jennifer Niederst (2013) HTML5 Pocket Reference (5$^{th}$ Edition). O'Reilly Media ISBN 978-0-596-80586-9<br>Boehm, Anne & Ruvalcaba, Zak. Murach's HTML5 and CSS3 (3$^{rd}$ Edition). Murach |
| Prerequisite(s): | None |
| Course Objectives: | Upon successful completion of this course, the student will be able to:<br><br>1. Effectively solve an array of mobile computing problems by utilizing various mobile technologies.<br>2. Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs<br>3. Analyze a problem or task, and identify the computing requirements appropriate to its solution<br>4. Research and apply the latest innovations in the mobile applications to new developments.<br>5. Support and secure computerized network and database environments to maintain and reduce risk<br>6. Communicate professionally and effectively with a range of audiences on technological topics<br>7. Incorporate data and communication systems, including the internet, in mobile solutions.<br>8. Complete all work in compliance with relevant policies, practices, standards, processes, and procedures<br>9. Produce mobile solutions in a business-oriented environment based on the analysis of customer needs. |

## Course Content

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| Course Overview and Tools for Web Development |
| Introduction to Web Development – HTML Syntax |
| HTML Tables, Forms and Frames – Debugging HTML Errors |
| HTML Programming -  Introduction to HTML |
| Coding & Syntax |
| Rich Text in HTML |
| HTML 5 APIs |
| HTML 5 APIs (cont'd) & HTML Document Structure & Browser Support |
| CSS3 Programming – Introduction |
| CSS3 Syntax |
| How to specify Measurements & Color |
| Working with Text |
| Course Project – Creating a Multi-page Website |
| Course Project – Creating a Website using HTML5 & CSS3 |
| Final Exam Week |

## Grading

| MARK | POINTS | MEANING |
|---|---|---|
| A – 80-100% | 4 | EXCELLENT: Outstanding performance |
| B – 70-79% | 3 | GOOD: Better than average achievement |
| C – 60-69% | 2 | SATISFACTORY: Achievement sufficient to enable the student to progress in the course |
| D – 50-59% | 1 | MARGINAL: Minimum acceptable level of achievement; Exception: for courses where the passing grade is a "C", a grade of "D" represents an insufficient achievement; must repeat. |
| F – 0-49% | 0 | UNSATISFACTORY: Insufficient achievement; must repeat. Student must consult with Program Coordinator. |

## Grading Scheme

Students will be evaluated on the following basis:

| Method | Weight |
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| Assignments (2 - equal weight) | 30% |
| Quizzes (2 - equal weight) | 20% |
| Project (1) | 20% |
| Final Exam | 30% |
| Total | 100% |

*The passing grade for this course is "**C**" (60%).  The final grade is not the result of a rigidly applied formula. As in a business environment, punctuality, attendance and participation are closely monitored by the instructor and are important, required components to a final positive result. These factors are important considerations throughout and at the end of the term. If you miss a class, you will be required to give valid reasons for your absence to the instructor, and you are responsible to get all materials and notes for the missed class. In case of a missed test or assignment, the instructor will adhere to the departmental policies and guidelines.*

**Deadline Extensions**

For purposes of equity and fairness, scheduled tests must be written on the date and at the time specified. It is the responsibility of the students to ensure appointments, travel plans, etc., do not conflict with scheduled tests.

Should an unavoidable, extenuating circumstance prevent a student from writing a scheduled test, the Instructor must be contacted at least one week before the scheduled test. The reason for absence must be accompanied by appropriate documentation the day the student returns to school, and arrangements may be made to reschedule the missed test. Appropriate documentation may allow the student to complete that test; however, a rescheduled test will be allowed only to students with no more than 1 absence per semester and whose in-class assignments and other coursework are complete and up to date. Rescheduling a test will be permitted only once per academic year. A re-scheduling fee may apply.

A grade of "0" will be given for subsequent unwritten tests and any tests unaccompanied by appropriate documentation. This policy will be strictly observed. Students who, for extenuating circumstances, (e.g. hospitalization, death in the family) are unable to meet assignment deadlines, must submit to the course professor, prior to the day of the deadline, a written request for an extension. Requests will be evaluated considering individual circumstances and approval is not guaranteed in all cases. Scheduled tests and/or assignments will be returned to students within 10 working days.

Any student who is absent when these are returned will be responsible for seeing the professor to pick up the test/assignment. Any document not picked up by the student by the last day of classes will be discarded. No student may pick up another student's work. Final projects, examinations, tests, reports etc. will not be returned to the student.

Again, for the purposes of fairness, equity, and order, if a justifiable situation**\*** prevents a student from completing a scheduled test/exam./practical/presentation/group work, the student must give prior notice to the professor of such a situation. In addition, the student must submit appropriate documentation affirming the reason for the absence. If a student follows this process, an alternative completion date may be arranged.

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**\* Illness, funeral, accident or injury**

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NOTE: Only students who show a commitment to their course work (through their attendance, and class participation) will be considered for such an alternative test/exam./practical/presentation date. For the purposes of ensuring his/her own academic success, if a student is aware of ongoing academic, health, or personal issues which may interfere with his/her course work or evaluation, the student should inform the professor of such issues very early in the semester to discuss possible strategies for adapting to or resolving those issues.