COURSE OUTLINE: MAP202 - MOBILE WEB PHP/MYSQL

Prepared: Dr. Michael Biocchi
Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	MAP202: MOBILE WEB: PHP AND MYSQL
Program Number: Name	2191: MOBILE APPS DESIGN
Department:	COMPUTER STUDIES
Semesters/Terms:	20W
Course Description:	In this course, students will create dynamic web applications using server-side scripting. Exception handling, database access, and user interface development will be covered. Advanced web scripting topics including MVC using PHP and MySQL will be applied by students to the solution of more challenging programming problems.
Total Credits:	4
Hours/Week:	4
Total Hours:	60
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Essential Employability Skills (EES) addressed in this course:	EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences.
Course Evaluation:	Passing Grade: 50%,
Other Course Evaluation & Assessment Requirements:	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 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. Absentee reports will be discussed with each student during regular meetings with Faculty Advisors. 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:

PHP and MySQL Web Development by Luke Welling
Publisher: Addison-Wesley Edition: 5
ISBN: 0321833899

Course Outcomes and Learning Objectives:

Course Outcome 1	**Learning Objectives for Course Outcome 1**
1. Overview of the course. Introduction and history of PHP and MySQL	1.1 Describe the history of PHP and MySQL 1.2 Perform basic outputs in PHP
Course Outcome 2	**Learning Objectives for Course Outcome 2**
2. PHP Introduction	2.1 Describe PHP syntax and data types 2.2 Understand how to use conditional statements and loops 2.3 Understand how to output information and HTML to the screen
Course Outcome 3	**Learning Objectives for Course Outcome 3**
3. MySQL Overview	3.1 Connect to a database 3.2 Perform basic CRUD via PHP
Course Outcome 4	**Learning Objectives for Course Outcome 4**
4. PHP Advanced	4.1 Create functions that return variables 4.2 Create a form with arrays (indexed, associative, and multi-dimensional) 4.3 Learn the difference between arrays such as multi-dimensional and associative arrays
Course Outcome 5	**Learning Objectives for Course Outcome 5**
5. SQL queries	5.1 Define SQL queries and security implications 5.2 Describe how and why prepared statements are used 5.3 Understand the difference between local storage and remote storage
Course Outcome 6	**Learning Objectives for Course Outcome 6**
6. Model View Controller	6.1 Understand the MVC methodology 6.2 Learn the proper folder structure of an MVC application 6.3 Understand how to pass information to views
Course Outcome 7	**Learning Objectives for Course Outcome 7**
7. MVC in-depth	7.1 Understand how to create different pages 7.2 Understand how to use controllers and parameters 7.3 Describe POST and GET and the core difference
Course Outcome 8	**Learning Objectives for Course Outcome 8**

8. HTML, CSS, and PHP	8.1 Understand how CSS, HTML, and PHP work together 8.2 Learn about Bootstrap and how to quickly design a website
Course Outcome 9	**Learning Objectives for Course Outcome 9**
9. Data security	9.1 Describe various security considerations for web applications 9.2 Understand how to integrate authentication using PHP and MySQL 9.3 Understand hashing vs encrypting
Course Outcome 10	**Learning Objectives for Course Outcome 10**
10. Access Control and Permissions	10.1 Understand permissions 10.2 Describe why permissions are needed and how to secure your website 10.3 Understand what an admin page is and how to create it
Course Outcome 11	**Learning Objectives for Course Outcome 11**
11. JSON, XML, and API	11.1 Identify and describe common data exchange formats 11.2 Understand how to convert data objects into various data exchange formats 11.3 Understand how to retrieve data from a remote source using an API
Course Outcome 12	**Learning Objectives for Course Outcome 12**
12. JavaScript and Ajax	12.1 Understand how all 4 technologies work together for web applications 12.2 Understand client side code and how Ajax to dynamically update website without reloading

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Labs	45%
Tests	55%

Date: November 27, 2019

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