

MMP 310 - Multimedia Programming II

3 credits, 2 hours lecture, 2 hour lab

Fall 2020

Online Mon/Wed 5:30 - 7:10pm

Professor Owen Roberts

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Class site: 310.owen.cool

Office S622J

Extension 8057

Course Description

This course builds on the programming, media manipulation and presentation skills developed in MMP 210 - Multimedia Programming I. Students will learn the multimedia application design process, from planning through production. Using media creation and programming software tools, students will build user-friendly web and multimedia applications.

Basic Skills: ENG 088 or ESL 062, ACR 094

Prerequisites: MMP 100, MMP 210

Co-requisites: MAT 051

Course Student Learning Outcomes (Students will be able to...)	Measurements (means of assessment for student learning outcomes listed in first column)
1. Demonstrate the ability to read in an object oriented programming language.	1. Student homework Assignments
2. Demonstrate the ability to write in an object oriented programming language.	2. Student homework Assignments
3. Decompose programming problems logically.	3. Student homework assignments
4. Create interactive projects through programming.	4. Midterm project
5. Script real-world tasks in an application.	5. Final Project
6. Integrate multimedia data types into an application.	6. Homework assignments and Final project

Use of Technology

Students will use the scripting language JavaScript. A text editor such as Notepad ++, Sublime or Bracket will be used to write code. Additionally, students may use Photoshop and Illustrator of Creative Suite 6 to design and manipulate graphics for their projects.

Requirements and Evaluation of Students

- Assignments: 40%
- Midterm project: 25%
- Final project: 35%

Outline of Topics

- Programming Basic (statements, control structures, expressions, functions, methods and variables)
- JavaScript Workflow
- Version Control with Git and GitHub
- Dynamic Web Pages with jQuery
- User Interaction with jQuery
- AJAX, XMLHttpRequests and APIs
- Building a Complete Application
- Writing Object Oriented code (classes) in JavaScript

General Education Learning Outcomes	Measurements (means of assessment for student learning outcomes listed in first column)
Communication Skills: Students will be able to write, read, listen and speak critically and effectively	Class presentations of midterm and final projects
Quantitative Reasoning: Students will be able to use quantitative skill and the concepts and methods of mathematics to solve problems.	Student homework assignments
Scientific Reasoning: Students will be able to apply the concepts and methods of the natural sciences	
Social and Behavioral Science: Students will be able to apply the concepts and methods of the social sciences	
Arts & Humanities: Students will be able to develop knowledge and understanding of the arts and literature through critiques of works of art, music, theatre and literature.	
Information & Technology Literacy: Students will be able to collect, evaluate and interpret information and effectively use information technologies.	Student homework assignments
Values: Students will be able to make informed choices based on an understanding of personal values, human diversity, multicultural awareness and social responsibility.	

Class Participation

Participation in the academic activity of each course is a significant component of the learning process and plays a major role in determining overall student academic achievement. Academic activities may include, but are not limited to, attending class, submitting assignments, engaging in in-class or online activities, taking exams, and/or participating in group work. Each instructor has the right to establish their own class participation policy, and it is each student's responsibility to be familiar with and follow the participation policies for each course.

BMCC is committed to the health and well-being of all students. It is common for everyone to seek assistance at some point in their life, and there are free and confidential services on campus that can help.

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