

Course Overview

Course: Web Scripting 3 (FWDP 3400)

Instructor: Michael Whyte

Course Description:

The Web Scripting 3 course introduces students to JavaScript based web application development with React.

Students will learn how to implement modern coding methodologies available in JavaScript such as modules and functional components. Application state management will be explored in detail along with routing, validating and styling modules.

Utilizing foundational JavaScript skills and modern JavaScript coding and build system techniques, students will explore developing and deploying practical interactive web modules and full-featured stand-alone web applications.

Course Outcomes:

Upon successful completion of this course students will be able to:

- Explain how React works and how it interacts with the browser
- Build interactive user interfaces with modular React components
- Create a full-featured and modern interactive web application using React and external APIs
- Utilize and extend the base features of React using external libraries

Course Evaluation:

Assignment 1 - Shopping Spree Application – 10%

Assignment 2 - Quote of the Day Application – 10%

Assignment 3 - Calculator Application – 20%

Project 1 - Movie Application - 60%

Total: 100%

Course Schedule:

Day 01

- Introduction to React
- Why Use React
- Starting a React App with Create React App
- JSX
- React State
- Event Handling
- Assignment 01
- Project 01 – Movie Application
- Lab Time

Day 02

- Assignment 01 Walkthrough
- React Components
- Assignment 02
- Lab Time

Day 03

- Assignment 02 Walkthrough
- Nesting Unknown Child Components
- Importing Data
- Styling a React Application
- Assignment 03
- Lab Time

Day 04

- Lab Time

Day 05

- Lab Time

Day 06

- Assignment 03 Walkthrough
- Third-Party React Components
- React Router
- React Mobile Navigation
- Lab Time

Day 07

- Managing Global Application State
- Local storage
- Lab time

Day 08

- Connecting to an API
- Movie Application Partial Walkthrough
- Lab Time

Day 09

- Lab Time

Day 10

- Lab time