

Course Addendum

Semester:	Winter 2021	Subject Code: WEB422	Section: A & B

Subject Title: Web Programming for Apps and Services

Professor: Patrick Crawford

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Office Hours: Wednesday: 8:55am - 10:40am & Friday: 9:50am - 11:35am

Created by:			
Approved by:			

Kathy Dumanski, Chair, School of Software Design and Data Science

Please read this addendum to the general course outline carefully. It is your guide to the course requirements and activities.

Please refer to the course outline for learning outcomes, course description and text and materials.

Please also visit sdds.senecacollege.ca for key information on courses, graduation requirements, transfer credit, and more from the School of Software Design and Data Science.

Assessment Summary

- 6 Assignments 50% ([A1] = 5%, [A2-A6] = 9%/ea)
- 6 Tests 50% (10%/ea) Note: Lowest test mark is dropped

Course Policies

To obtain a credit in this subject, a student must:

- Achieve an average of 50% or better for all assignments
- Achieve an average of 50% or better for all tests
- Achieve a weighted average of 50% or better on the overall course

Academic Policies:

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TENTATIVE WEEKLY SCHEDULE (Reflected on the Course Website: https://web422.ca)

Semester - Winter 2021

Week	Topic or Skill	Reading	Assessment	Weight
Week 1	 Dev environment setup Re-introduction to back-end web services and testing 	Welcome to WEB422	Assignment 1 Released	5%
Week 2	Short jQuery with Bootstrap 3 Review Helpful utility functions with Lodash & Rendering Data Handling Date / Time information using Moment	Bootstrap 3, jQuery and Other Libraries	Assignment 2 Released	9%
Week 3	 Introduction to React Getting started by running the default App Introduction to React Components 	Introduction to Component-based architecture using React	Test 1 (Weeks 1 & 2)	10%
Week 4	 Handling Events and Rendering Data Introduction to Routing Creating a UI with 3rd party Components 	Continue React Development	Assignment 3 Released	9%
Week 5	Processing forms in React Serving a React App / Hosting on Heroku	React Forms & Deployment	Test 2 (Weeks 3 & 4)	10%

Week 6	 Introduction to Angular Getting started by running the default App Introduction to Angular Components and Templates 	Introduction to Angular	Assignment 4 Released	9%
Week 7	Attribute, Class, Style Bindings & Directives Emitting Events Introduction to Routing	Additional Bindings, Directives, Events & Routing	Test 3 (Weeks 5 & 6)	10%
		STUDY WEEK		
Week 8	 Angular Services Introduction Working with a Web API in Angular Angular Routing Continued 	Introduction to Services, HttpClient & More Routing Options	Assignment 5 Released	9%
Week 9	Angular Forms Introduction Element "State" & Validation	Introduction to Working with Forms in Angular	Test 4 (Weeks 7 & 8)	10%
Week 10	 Introduction to Building / Deploying an Angular app using Node.js A brief introduction to the Angular testing landscape 	Introduction to Angular Deployment & Testing	Assignment 6 Released	9%

Week 11	Introduction to JWT Review User Account Management / Security (MongoDB / bcrypt) Securing routes in an existing API using Passport.js / Passport-jwt Updating an Angular app to use JWT (Route Guards / Http Interceptors)	Introduction to Securing an Web API with JWT	Test 5 (Weeks 9 & 10)	10%
Week 12	 Creating a server using Node/Express for managing socket connections Developing an Angular application which contains a working "chat window" 	Introduction to Socket.io		
Week 13	(Course Review)		Test 6 (Weeks 11 & 12)	10%

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