

Course Addendum

Semester: **Winter 2021**

Subject Code: **WEB 322**

Section: **NCC, NDD**

Subject Title: **Web Programming Using ASP.NET**

Professor: **Nick Romanidis**

Office: **MS Teams**

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Office Hours: **Monday to Friday, 8 AM to 4 PM, by appointment**

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% each)
- 6 Tests - 50% (10% each) – **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:

<http://www.senecacollege.ca/about/policies/academics-and-student-services.html>

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TENTATIVE WEEKLY SCHEDULE

(Reflected on the Course Website: <https://web322.ca/>)

Semester – Winter 2021

Week	Topic or Skill	Reading	Assessment	Weight
Week 1	<ul style="list-style-type: none"> Development Environment / Technology / Tools Web Servers & HTTP Request / Response Paradigm HTTP Protocol Overview Object Oriented JavaScript Review 	<ul style="list-style-type: none"> Course Introduction JavaScript Concept Review 		
Week 2	<ul style="list-style-type: none"> What is Node.js / Why use it? Modules explained NPM – Node Package Manager Package.json Explained 	<ul style="list-style-type: none"> Node.js Introduction 	A1 Released	5%
Week 3	<ul style="list-style-type: none"> What is Express.js? Configuration & Settings Routing Middleware Error Handling Building a simple web server using Node.js with Express.js Chrome Dev tools – Network tab, Response data 	<ul style="list-style-type: none"> Express.js Introduction 	Test 1 A2 Released	10% 9%
Week 4	<ul style="list-style-type: none"> Template Engines in Express.js Handlebars.js MVC Design Pattern 	<ul style="list-style-type: none"> Template Engines – Handlebars.js 		
Week 5	<ul style="list-style-type: none"> What is Git? Git vs. GitHub Working with a Git repository Introduction to Web Hosting Publishing to Heroku 	<ul style="list-style-type: none"> Heroku Guide 	Test 2 A3 Released	10% 9%

Week 6	<ul style="list-style-type: none"> HTML forms review Processing forms in Express.js Server-side form validation Building a MVC Node.js app from scratch 	<ul style="list-style-type: none"> Processing forms with Express.js 		
Week 7	<ul style="list-style-type: none"> jQuery Introduction Introduction to the Bootstrap UI Framework 	<ul style="list-style-type: none"> Introduction to jQuery & Bootstrap Frameworks 	Test 3	10%
STUDY WEEK				
Week 8	<ul style="list-style-type: none"> Setting up a "Postgres" Database Downloading the "sequelize" & "pg" modules Object-Relational Mapping Explained & Requesting Data Returning & Formatting data using Handlebars.js 	<ul style="list-style-type: none"> Relational Databases 	A4 Released A5 Released A6 Released	10% 10% 10%
Week 9	<ul style="list-style-type: none"> What is a NoSQL Database? Configuring a NoSQL Database (MongoDB) Downloading / installing MongoDB Driver (module) for Node Queries MongoDB Atlas Mongoose.js Schema, indexes 	<ul style="list-style-type: none"> MongoDB 		
Week 10	<ul style="list-style-type: none"> Cookies Sessions Authorization vs. Authentication Uploading Files 	<ul style="list-style-type: none"> Managing State Information 	Test 4	

Week 11	<ul style="list-style-type: none"> • Review: What is AJAX? Why do we need it? • Requesting data (JSON) on the Client Side using JavaScript • Processing AJAX Requests on the server and returning data • RESTful API Introduction 	<ul style="list-style-type: none"> • AJAX Review / Practical AJAX Programming 		
Week 12	<ul style="list-style-type: none"> • Approaches to loading data • Creating throw-away controllers • Designing a data-loading solution 		Test 5	10%
Week 13	<ul style="list-style-type: none"> • HTTPS • Letsencrypt.org, free https certificates forever • Password Encryption, bcrypt.js 	<ul style="list-style-type: none"> • Security Considerations 	Test 6	10%
Week 14	<ul style="list-style-type: none"> • Review 			

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