



Approved by Chair:

Signature

T175

Backend Web Development Blockchain Development Program

Teacher's Name Mike Denton Course Code BCDV1022

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Phone Academic Year 2022-2023

Office Term 1

Out of Class Assistance

All academic inquiries will be replied to within three business days.

LIST OF TEXTBOOKS AND OTHER TEACHING AIDS:

Required:

N/A

Recommended Resources:

Instructor to provide

Detailed Evaluation System

Assessment:		Outcome(s) assessed:	EES assessed:		% of Final Grade:
Participation	Class participation	1,2,3,4,5,6	1,4,5,6,8,9,10,11	1,2	10%
Labs	In class instructor guided interactive work	1,2,3,4,5,6	1,2,3,4,5,6,7,8,9,10,11	1,2	30%

Assignment	Individual student assignment	1,2,3,4,5	2,4,5,6,7,9,10	2	30%
Exam	Final exam	1,2,3,4,5,6	2,3,4,5,6,7,10,11	2	30%

Learning Schedule / Topical Outline (subject to change with notification)

TOPICAL OUTLINE:

Week	Topic	Outcome	Content	Reference
1	1	5, 6	NPM: Node Package Manager Packages and Package Managers npm and npm Registry Versioning and package.json Getting started with Node.js V8: The JavaScript Engine The Node Architecture	
1	2	1, 5	Node Fundamentals Module, Export, Require Events and Event Emitter HTTP module and Web Server	
1	3	1, 2	. Working with Express Routes and Routing Query String and Post Parameters RESTful API and JSON Working with Nest.js Project structure Modules, controllers and services Swagger	
1	4	2, 5, 6	Node Fundamentals II Asynchronous Code, Event Loop, Libuv Streams and Pipes Built-in Node Modules	
1	5	3, 4	Interacting with the Local System Buffer Streams and Pipes Node Core Concepts Event Loop Architecture	
2	6	1, 2, 3, 4, 5	Lab Test	
2	7	1, 3, 4	Working with NoSQL and MongoDb ■ NoSQL vs SQL ■ Mongo Shell	

			Working with SQL and Postgress SQL	
2	8	1, 4, 5	Mongoose and Middleware Model & Schema Queries Integrating Mongoose with Node Node Advanced Topics	
2	9	2, 3, 5	Microservices, docker containers	
2	10	1, 2, 3, 4, 5, 6	Final Exam	

Please note: this schedule may change as resources and circumstances require.

For information on withdrawing from this course without academic penalty, please refer to the College Academic Calendar: http://www.georgebrown.ca/Admin/Registr/PSCal.aspx