# Meeting Time & Location

Mondays, 5:00pm, E 118

Fridays, 4:00pm, E 104

# Course Description

This course is designed to give students the opportunity to enhance and enrich their skills in Web programming. Students will learn to develop Web applications that use three-tier architecture, session management, object-oriented techniques, and advance database interactions. Concepts such as advanced CSS concepts, rich interactive Web environments, authentication, and security will also be explored.

# Resources

Blackboard  
Slack Communication Tool

Emailing Shaun

# Instructor

Shaun McKinnon: [shaun.mckinnon@georgiancollege.ca](mailto:rich.freeman@georgiancollege.ca)

I will:

* Be prepared for each class
* Provide real-life context and examples for the concepts you will be learning
* Encourage and answer your questions
* Find out the answers to questions that we cannot answer
* Set out clear standards and expectations for your work
* Try to present the course material in an engaging manner
* Be open to your feedback

# Office Hours

By Request

# Expectations for Success

* Attend class regularly
* Ask for help as often as you require
* Access the Blackboard site often
* Understand how you learn (so you can learn more efficiently)
* Enjoy the process of learning something new and challenging yourself
* *Independently* obtain material from any classes you are unable to attend
* Include a *descriptive subject* and your *full name* and use proper English if you send an email

# Evaluation

|  |  |
| --- | --- |
| Random In-Class Quizzes | 10% |
| In-Class Labs | 20% |
| Project | 40% |
| Test 1 | 15% |
| Test 2 | 15% |

# Schedule of Activities

|  |  |  |  |
| --- | --- | --- | --- |
| WEEK | LESSON |  | DUE |
| 1 | Introducing JavaScript Frameworks Class  Expectations  JavaScript Refresher |  |  |
| 2 | Introducing Node Environement Simple Server |  |  |
| 3 | Looking at MVC  Introducing Express Routing  Introducing Controllers & Views |  | Lab 01 |
| 4 | Introducing MongoDB & Mongoose Models Part 1 |  |  |
| 5 | Introducing MongoDB & Mongoose Models Part 2 |  | Lab 02 |
| 6 | Basic Authentication |  | Lab 03  Project Part 1 |
| 7 | Midterm |  |  |
|  | READING WEEK |  |  |
| 8 | Introducing ReactJS and React Tools |  |  |
| 9 | Keeping it DRY in React |  |  |
| 10 | Dynamic Data in React Part 1 |  | Lab 04 |
| 11 | Dynamic Data in React Part 2 |  |  |
| 12 | Authentication in React |  | Lab 05 |
| 13 | Taking it Further in React, Node, and Mongoose |  | Project Part 2 |
| 14 | Final |  |  |
|  |  |  |  |

The sequence and content of this syllabus may change due to unanticipated opportunities or challenges, or to accommodate the learning styles of the students.