

# WEB1100

Basic front-end programming II

# Course description

This course introduces advance concepts that will be used throughout the rest of the program. We delve in topics such as understanding a programs stack, understanding JavaScript single thread and how it differs from other programming languages, understanding recursion and why it's necessary, functional programming, and Object-Oriented programming and how it differs in the JavaScript language. We also accomplish creating a bootstrap portfolio and linking our projects. We also do parts of Wes Bos’ JavaScript 30 to introduce more advanced concepts and *CodeSchool's* introduction to ES6 videos to help understand what ECMAScript 5 is and why they are implemented.

# Course objectives

Upon successful completion of this course, the student should be able to:

* Have an introductory understanding of the JavaScript runtime environment and how the JavaScript complier handles asynchronous code.
* Have an introductory understanding of recursion and how to make recursive functions in JavaScript
* Understand OOP (Object Oriented Programming) in JavaScript how to develop classes in the traditional JavaScript style and the new ES6 syntax.
* Understand inheritance in JavaScript and how to use prototypal chaining.
* Have an introductory understanding of how to set up an Express server and deploy it on your own.
* Understand what functional programming is and understand commonly used higher-order functions.

# Resources

* ( freecodecamp.com ) URL for the homework
* ( <https://github.com/FVITech/Web1100--old-web-2010> ) Classwork folder containing classwork resources

# Course evaluation

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| WEB1010 JavaScript Review | 25 Points |
| ToDo List | 25 Points |
| Dice Roll Game | 25 Points |
| String Mingling | 25 Points |
| Classes | 25 Points |
| Basic Node JS Server | 25 Points |
| Test 1 | 150 Points |
| Bootstrap Portfolio | 25 Points |
| Wikipedia Visualizer | 25 Points |
| Functional Programming Quiz | 50 Points |
| Final Exam | 150 Points |
| Homework | 100 Points |
| **Total** | **650 Points** |

# Grade point value

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| Grade | Score | Quality points |
| A | 585 - 650 | 4.0 |
| B | 520 - 584 | 3.0 |
| C | 455 - 519 | 2.0 |
| D | 390 - 454 | 1.0 |
| F | 389 or below | 0.0 |
| W | withdraw | N/A |