



Computer Programming Grand Haven High School



Course Number: E84

Grade Level: 10-12

Credits : 1/2

Prerequisite Courses : Algebra 1

Course Description

This course will be taught using a browser-based site www.codecademy.com. Students will begin with a general overview of JavaScript, then based on their IDP, they will continue with overviews from the following: jQuery, HTML/CSS, Ruby, Python, and PHP. Tutorials require a significant amount of technical reading. Reading the material will greatly increase the amount of success you will have in this class. Self-motivation is key! Students will create a digital portfolio highlighting their work throughout the trimester.

Course Objectives

Understanding of key concept in JavaScript and other languages
Relevance of programming in a variety of settings
Potential career paths involving computer science
Collaboration in problem-solving

Student Expectations

Highly motivated
Highly self-directed
Cooperative and collaborative
Utilize time wisely

Communication

All students will register for the class on www.schoolology.com
Students will share and collaborate weekly on Schoology.
Parents are encouraged to join Schoology and follow the class
Students will also utilize Twitter for relevant discussions and reminders

Building Behavioral Expectations

TEAM GH ... One Team, One Family, One Grand Haven. Be Kind. Always.

It is our expectation that ALL GHHS students, staff and parents will ... always give their best **EFFORT** in everything that they do, work hard to be **INCLUSIVE** of each other, show **RESPONSIBILITY** in class, the hallways, cafeteria and at events, and **WORK TOGETHER** at all times!

GO BUCS

Grading Policy

All assignments and tests will be assigned a point value. This is determined by the length/difficulty of the assignment. Assignments must be completed in the order assigned. If an assignment is way off base, it might be returned to you to be reworked. The following scale will be used:

94 - 100 = A	80-83 = B-	67-69 = D+
90 - 93 = A-	77-79 = C+	64-66 = D
87 - 89 = B+	74-76 = C	60-63 = D-
84 - 86 = B	70-73 = C-	Below 60 or Missing Assignment = F

Grades are available on Parentviewer as well as on Schoology. Students are expected to monitor

- Daily work (tutorials & programs) - 60%,
- IDP 10%
- Digital Portfolio - 20% (final exam)
- Professional Grade - 10%

Scope and Sequence

Week 1 - Introduction and programming language research
Week 2 - Intro to JavaScript
Week 3 - Continue with JavaScript
Week 4 - JavaScript Project
Week 5 - IDP (jQuery, PHP, Python, HTML/CSS, Ruby)
Week 6 - IDP (jQuery, PHP, Python, HTML/CSS, Ruby)
Week 7 - IDP (jQuery, PHP, Python, HTML/CSS, Ruby)
Week 8 - IDP (jQuery, PHP, Python, HTML/CSS, Ruby)
Week 9 - IDP (jQuery, PHP, Python, HTML/CSS, Ruby)
Week 10 - IDP (jQuery, PHP, Python, HTML/CSS, Ruby)
Week 11 - Portfolio
Week 12 - Present Portfolio (final exam)

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