

WDIM493J node.js

Schedule

- This is Section A.
- We have class Thursdays, 6:00–9:45pm.
- Final is on Monday, 5:30–7:30pm.
- We meet in Room 216.

Instructor

- His name is Peter Wooley.
- His email is pwooley@aii.edu.
- You *could* call him at (360) 904–8516.
- He hasn't updated his web site at peterwooley.com for quite a while.
- He has office hours by appointment only.

Requirements

- You must have a [working knowledge of JavaScript](#).
- You need a [GitHub account](#).
- There is no required book, but you might consider:
 - [The Node Beginner](#) (Free or \$9.99)
 - [Node: Up and Running](#) (\$27.99–\$34.99)

Course Description

Introduction to node.js (Server-Side JavaScript) for creating command-line utilities, web sites and real-time web apps.

Extended Course Description

JavaScript has leapt from the confines of the client-side to the wide open spaces of the server-side. Prepare to wave goodbye to your current server-side language of choice and embrace the world of real-time, event-driven, non-blocking web apps. We'll use node.js to make the smallest of command-line utilities; to full web servers; to real-time, WebSocket-powered app engines.

Course Objectives

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

- Get node.js up and running
- Create command-line utility apps written in JavaScript
- Serve web sites without Apache
- Develop real-time web apps
- Use git and GitHub for version control

Prerequisite

- WDIM262 Web Scripting: JavaScript

Grading

Participation

10%

Assignments

60%

Final Project

30%

A grades are given for work that is truly excellent. It goes beyond the minimum criteria set, and is excellent in terms of craftsmanship, creativity and effort. Student shows that they challenge themselves in project design. Student exhibits commitment to expanding ideas, vocabulary and performance.

B grades are given for work that is above average in quality, craftsmanship and creativity. It pushes a little beyond the minimum expectations.

C grades are given for work that is adequate. It meets the criteria set, by the minimum standards. Craftsmanship, quality and effort are average.

D grades are below the standards set. The student has either not exhibited an adequate understanding of the subject, or has not put forth the minimum effort. Craftsmanship and quality are poor.

Late Work

I will not accept late work that is turned in more than one week past the due date. Late work always receives a grade deduction of 10%. Feel free to redo work you are unsatisfied with—you may redo any assignment (provided you turned it in on time) for a higher grade. You cannot make up the final project.

Attendance & Participation

- Be on time for class
- Be considerate of others work and presentations
- Participate in discussions
- If you miss the final I will not allow you to make it up unless you arranged it previously with me.

Quarter Credit Hour Definition

A quarter credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for 10–12 weeks, or the equivalent amount of work over a different amount of time; or
2. At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work

leading to the award of credit hours.

Campus Email Policy

Email communication will be through eCompanion. Be sure to check your Profile in eCompanion to update your email address so that you will receive course communications in a timely manner.

Lab Policies

Leave food and drink outside the class. Disciplinary action will be taken toward any student found using the equipment in an inappropriate manner, taking cell phone calls or surfing the web. Disruptive, disrespectful or rude behavior will not be tolerated.

Plagiarism

Presenting the writings, images or paraphrased ideas of another as one's own, is strictly prohibited at the Art Institute of Portland. Properly documented excerpts from other's works, when they are limited to an appropriate amount of the total length of a student's paper, are permissible when used to support a researched argument.

Attendance Policy for the Art Institute of Portland

Students who are absent from all scheduled classes over a 14-day period (2 weeks) are subject to automatic attendance suspension—from the Institute, not just from this course. This means the student is administratively withdrawn from all courses and cannot attend classes or continue in the current quarter unless he/she successfully appeals for reinstatement. *Students who anticipate violating the attendance policy should contact their Academic Advisor or Academic Department Director immediately* to discuss options such as withdrawing from the Institute or navigating the appeals process.

Absences Policy

Regular attendance is required for successful completion of this course. A student who misses the equivalent of three (3) classes will not pass this class. Exceptions for extenuating circumstances will be considered at the discretion of the instructor.

Adding, Dropping and Withdrawing from courses

Schedule Adjustment period: The schedule adjustment period runs through the first week of the quarter (ending at 5 pm on Monday of Week 2). To add or drop a course, the student must complete a schedule adjustment form, available from the Registrar's Office. The signature of the student's academic advisor is required to make any changes to the student's schedule.

Withdrawal (W/WF): The student who withdraws from a course or from the program during the first nine weeks of the quarter will be assigned a "W" code for each course. The "W" code is not used in computation of the student's grade point average; however, "W" credits are counted toward total credits attempted. The student who withdraws from a course or from the program after the ninth week of the quarter will be assigned a "WF" code for each course. The "WF" code is the equivalent of a grade of "F" and is used in computing the student's grade point average. Students wishing to withdraw from The Art Institute of Portland must file an official status change form with the Registrar.

Tutoring

One-on-one tutoring is available to you across all subjects through the Tutoring Center at no extra cost. The goal of

tutoring is to help you learn and master skills so you can then confidently apply them on your own. Tutoring is helpful for students at all levels. Our tutors are faculty or, most often, fellow students who have excelled in the subject. *You may find a tutor by visiting aidepartments.com or dropping by the Tutoring Center in Room 328 inside the Education Department.* You may also contact Ann Stevenson (stevenson@aii.edu).

Students with Disabilities

It is AiPD policy not to discriminate against qualified students with a documented disability in its educational programs, activities or services. If you have a disability-related need for adjustments or other accommodations in this class, contact Student Support and Disabilities Coordinator, Daynia Flynn at ext. 4836 or djflynn@aii.edu.

Student Assistance Program

Any problem. Anytime. Anywhere. Talk One–2–One is a resource for confidential, convenient, and 24/7 support for a number of personal problems that may be challenging your health or well-being. No issue is too small. You can call us Talk One–2–One for a wide range of issues, such as dealing with stress and anxiety, family problems, roommate issues, and drug or alcohol abuse. To access Talk One–2–One, simply call 1–888–617–3362 anytime, day or night. There's somebody to talk to 24/7/365, even during school breaks. If you have any questions about the Student Assistance or if you need immediate on-campus support, please contact Daynia Flynn; Student Support & Disabilities Coordinator at djflynn@aii.edu

Evacuation Procedures – Brewery Blocks

Please proceed to the nearest exit when the strobe lights flash and an audible alarm occurs. AiPD's evacuation location is around the corner on 10th between Everett and Davis; do not stand in front of the Armory or Deschutes Brewery - someone will come to tell you when it is safe to back in the building. **ALWAYS ASSUME ANY EVACUATION IS REAL**

Evacuation Procedures – Park Blocks

Please proceed to the nearest exit when the strobe lights flash and an audible alarm occurs. The evacuation location is the large metal elephant located just west of the Culinary/Industrial Design buildings within the North Park Blocks between NW Park Ave. and NW 8th Ave. Someone will come and inform you when it is safe to come back into the building. **ALWAYS ASSUME ANY EVACUATION IS REAL**

Course Calendar

Week 1

- Get node.js setup
- Get GitHub accounts setup
- Hackathons

Week 2

- Using node.js for creating command-line tools
- How to use npm

Week 3

- Going beyond command-line tools to long-running processes

Week 4

- How to use node.js as a web server using Express

Week 5

- Advanced web server topics: Jade, LESS, Routes, Middleware and more

Week 6

- Real-time with WebSockets

Week 7

- MMORPG

Week 8, Week 9, Week 10

- Final Project
- Short lectures on topics you want to use in your Final Projects