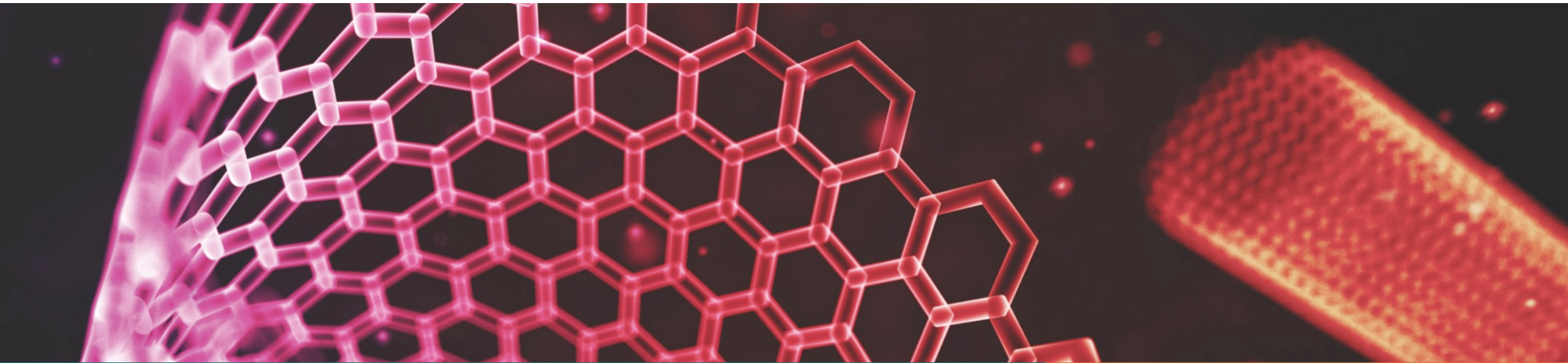


# **CS 554 – Web Programming II**

## **Course Introduction and Policies**





**STEVENS**  
INSTITUTE *of* TECHNOLOGY

**Schaefer School of  
Engineering & Science**

**stevens.edu**

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# About Me



## ***Education:***

- Associate in Applied Science in Computer Programming and Systems from LaGuardia Community College.
- Bachelor of Business Administration w/ concentration in Computer Information Systems (minor in Psychology) from Baruch College.
- Master of Science in Computer Science from Stevens Institute of Technology.

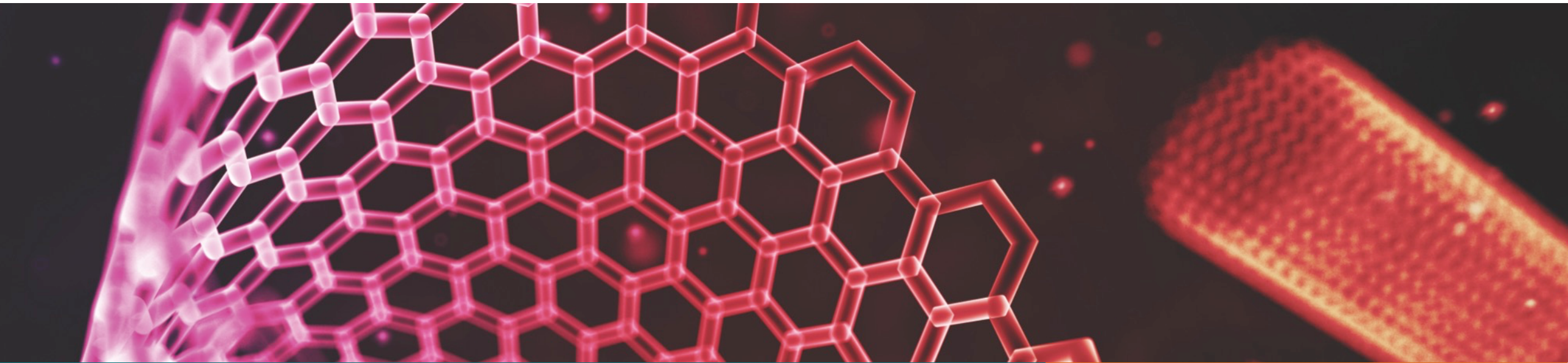
## ***Professional:***

- Professional programmer since 1998 (worked at various companies throughout the years, from small/mid-sized startups to large law firms and corporations).
- Current CTO of Startup and an Adjunct Professor here at Stevens.

## ***Teaching:***

- 2017-2018: Started as a TA in CS 546, CS 223, and CS 810.
- 2017-2018: Stevens Pre-College Program. Taught Intro to Computer Science and was a TA for the Cybersecurity program.
- Fall 2018-Present: Became an Adjunct Professor at Stevens teaching CS 546, CS 554 and more recently, CS 146.

# Course Logistics and Policies





# Course Communication - Slack

- We will be using Slack for most communication in the course. You will find an invitation link in the course modules on canvas.
- Every student should be in the slack workspace in the #cs-554 channel for course related questions. #general is used for general chat related to CS, #random is for any off-topic chat. **Do not ask any course related questions in any other channel other than #cs-554**
- Please do not direct message TA's or myself unless invited to, keep all communication in the chat channel.
- Even if you do not chat much in the channel, it is advised that you read the channel frequently for clarifications on assignments that other students may have asked.
- You can join the slack by visiting this URL. (it is also posted on canvas) <https://tinyurl.com/uosh623>



# Course Codebase

The lecture code as well as all lecture slides for the course can be found on GitHub:

- <https://github.com/stevens-cs546-cs554/CS-554>



# Grade Breakdown

## Labs: 50%

- Labs will be weighted evenly.
- There are a total of 7 labs

## In-Class Exercises/Quizzes: 5%

- Some weeks we will have an in-class exercise or quiz.
- **YOU MUST BE PRESENT IN CLASS TO GET ACCESS TO AND GET CREDIT FOR THE EXERCISE/QUIZ (NO EXCEPTIONS)**

## Final Project Implementation Plan: 5%

- Students will be assigned groups randomly to create a web application, and and create an implementation plan detailing all the technology they will be using to create the application. Each group will meeting with the professor to discuss their plan.

## Final Project Code and Presentation: 40%

For the final project, students will create a web application with multiple backend and frontend components working together, as well as present all aspects of the product. 35% for the Code, 5% for the presentation.





# Attendance

- While I do not require attendance, you are **HIGHLY** advised to attend class.
- Even though I do not require attendance, you are responsible for all information that is communicated in the lectures.
- I may clarify or communicate important information about the coursework during the lectures. If you miss a class, you will miss that information, but you will still be responsible for it.
- You will need to be present on days we have in-class exercises or quizzes to get credit for them. No make ups will be granted for missed in-class assignments.





# Late Assignments

You will have ample time to complete each assignment, so lateness will be harshly penalized:

- **Late labs will receive a 15-point penalty PER DAY. A lab is considered late 5 minutes after the due date/time (You have a 5-minute grace period).**
- **For final project components, the penalty is 25-points per day and a final project component is considered late 5 minutes after the due date/time (You have a 5-minute grace period).**

**There are NO exceptions to these policies unless a verifiable doctor's note is provided, or you are officially excused from the office of Graduate Affairs.**



# Plagiarism and Cheating

- **I have a ZERO tolerance policy when it comes to sharing code with each other and cheating. Anyone caught cheating will receive an automatic 0 and be reported to the college.**
- Moss is run against every student's lab submissions to detect plagiarism in code and it is VERY VERY good at what it does.
- Moss is not only run against all current student submissions but also against ALL student submissions from previous semesters.
- If Moss detects a 40% or higher code similarity between your work and another student's or previous student's, you will receive an automatic 0 for that lab and the incident will be reported to the Honor Board and the Graduate Academics department without hesitation.
- You CANNOT use any code from a previous student found online on GitHub, any other online code repository etc..

**Again, ZERO TOLERANCE.**



# What Will We Be Covering in This Course?

In this course, we will be taking our knowledge of basic website development and applying those principals to more complex web applications with modern technology.

1. You will be learning advanced CSS techniques
2. You will be subject to more detailed security issues
3. You will learn to split up backend and frontend components through the use of JavaScript frameworks
4. You will learn to use modern technology and multiple processes to achieve very fast web applications.



# How We Will Cover This Material

This course is more researched based and is a bit different than 546.

Throughout the semester, we will be learning about different technologies with assignments focused on each week's content. We will cover many topics and go over an introduction to them and see how to use them. It is up to you as to which technologies you find interesting and wish to dive deeper into.



# What Will We Do in This Course?

In this course, you will:

- Complete many assignments that will assess your understanding of the topics covered in class. These will be programming assignments.
- As a group, come up with an idea for a full web application to use as your final project and pick the technologies you are going to use for it.
- Create an implementation plan and discuss it with the professor.
- Give a technical presentation demonstrating your project result.
- Submit your final project code.



# What Are the Labs Like?

- There will be assignments generally every-other week, designed to make you practice the material that we have been discussing in class. Non-coding assignments will be given a week to complete.
- Each assignment will give you a good foundation for the technologies and techniques you will use for the final project.
- Assignments are incremental: You will be carrying techniques from earlier assignments into later assignments.



# What Is the Final Project Like?

For your final project, you will create a complex web application that fulfills all of the following:

- Uses a frontend framework to create a single page application
- Has a responsive design so that the same view works across all sizes of devices
- Runs multiple processes through use of a worker and a web server.
- Uses at least two technologies not covered in the course and integrate it into your technology stack.
- Can defend against more complex security attacks
- Uses a NoSQL database
- Extensively uses AJAX
- Performs DOM Manipulation and event handling through jQuery or other frameworks





# Teaching Assistants

- We have 3 teaching assistants for this course. They each hold a 2-hour office hours every week to answer your questions and they will also be in the Slack channel to answer any of your questions
- They will be making their introductions and posting their office hours soon.
- I am very protective over my TA's therefore rudeness, pushiness, hostility etc. will not be tolerated.
- The TA's have no authorization to change your lab grades without discussing it with me first. They also do not set the amount of points you get deducted for an issue.
- If you have a question, please reach out to the TA's first, if they are unable to address your issue then reach out to me.



# Readings

- In lieu of a textbook, assignments will require you to research the topics in order to complete them. I will point you to resources for each assignment.
- Most weeks, I will provide recommended readings and other resources regarding the content that will be covered.
- It is **highly beneficial** to read those readings before class as a form of preparation.
- For many labs and parts of your final project, you will be expected to read some form of documentation in order to learn how to use a particular technology or package.