

HTTP 5221 Security & Usability Fall 2024

Instructor (Weeks 1-7 for Security): Andrei Navumau

The Critical Path is the course schedule. It is an important document that lays out weekly **and/or** module objectives that you are responsible for to ensure academic success. Download and/or print out a copy of the Critical Path and refer to it regularly.

Unless discussed and specifically approved in advance by your instructor, the use of generative artificial intelligence (also known as “GAI” or “AI” for example: ChatGPT) is not permitted for this course and its use is considered academic misconduct.

Module Breakdown

Week	Topics, Readings, and Activities	Due Dates	Weight
1	Module 1: Level Up Your Code! Topics: <ul style="list-style-type: none">Moving from basic to intermediate JS Activities: <ul style="list-style-type: none">Lab Exercise 1 (3%)	Sep 4	3%
2	Module 2: Coding Standards Topics: <ul style="list-style-type: none">B.E.M. naming conventionJS Lint“use strict” Activities: <ul style="list-style-type: none">Lab Exercise 2 (6%)	Sep 11	6%
3	Module 3: Test Design Topics: <ul style="list-style-type: none">Testing terminologyTest Driven DesignUnit Tests Activities: <ul style="list-style-type: none">Lab Exercise 3 (6%)	Sep 18	6%

Week	Topics, Readings, and Activities	Due Dates	Weight
4	Module 4: Testing Frameworks & Encryption Topics: <ul style="list-style-type: none"> Encryption libraries with JS Jasmine Testing Framework Activities: <ul style="list-style-type: none"> Lab Exercise 4 (4%) Assignment 1: Jasmine Testing (15%) 	Sep 25 Oct 9	4% 15%
5	Module 5: Hacker Prevention Topics: <ul style="list-style-type: none"> Security Vulnerabilities & Perspectives Activities: <ul style="list-style-type: none"> Assignment 2: In-class Group Assignment (10%) 	Oct 2 + 4	10%
6	Module 6: End to End (E2E) Testing Topics: <ul style="list-style-type: none"> Automating End to End Testing Activities: <ul style="list-style-type: none"> Lab Exercise 5 (4%) 	Oct 9	4%
7	Module 7: Ad Hoc Testing Topics: <ul style="list-style-type: none"> Strategies for informal testing. Activities: <ul style="list-style-type: none"> Lab Exercise 6 (2%) 	Oct 16	2%
READING WEEK (no classes)			

Summary of Graded Course Components

Summary	Weight
Total for all Security Lab Exercises (x6)	25%
Total for all Security Assignments (x2)	25%
Total	50%