Welcome to the course!

Course Description:
Internet protocol stack, analysis of representative protocols; Internet applications: client-server architecture, popular Internet application protocols, Internet application design, client side programming, server side programming, Web application and Web site design; programming projects.

Learning Goals:
Networking infrastructure, TCP/IP Internet Model. Understand how Internet technologies deliver content across the web. Describe how clients and servers communicate using various protocols. Analyzing the packet structure using inspector tools. Learn techniques and best practices in designing scalable web pages. REST API infrastructure and integration. Cloud Technology and Software.

Textbooks (Free Online):
K. Simpson
You Don't Know JS Yet Series
https://github.com/getify/You-Dont-Know-JS/blob/1st-ed/README.md

M. Haverbeke:
Eloquent Javascript
https://eloquentjavascript.net/

Instructor:
Raymond Law – raymond.law@qc.cuny.edu
office hours: Fridays 5:00pm - 8:00pm via Blackboard Collaborate Ultra
Reservations must be made on the course webpage ahead of time to prevent conflicts. Making a office hour reservation 24 hours ahead is ideal, but I can be flexible with this as long as your bookings aren't consistently last minute. A link will be posted each week on the course webpage to access office hours.

Course Webpage:
https://venus.cs.qc.cuny.edu/~rlaw/cs355/
The course webpage will be where all course material, assessments, and announcements will be posted. You are required to check the webpage daily.

Blackboard:
Exams will be administered on CUNY Blackboard. The exams will be conducted synchronously, during the scheduled class time.
Office hours will also be administered using Blackboard Collaborate Ultra. Due to software limitations (Blackboard does not allow classes from different section to share a chatroom) access to the Office Hours will be posted on the course website each week. (and not on the course Blackboard page) You are required to maintain your access to Blackboard in good order.

Classes:
With the exception of exams, this course will be administered asynchronously. There will be a total of 14 weekly posts on the course webpage, outlining prerecorded lectures, assessments, readings and external content that is required of you. Within the week assigned, I expect all students to study all the assigned material (not just the recorded lectures). All assigned material has a chance of appearing on examinations, with the exception of material specifically marked as reference.

Attendance and WN Policy
During the first two weeks of the semester, all students are required to take a practice exam which will not be graded, but is used for Verification of Enrollment requirements. Those that do not complete this exam will receive a WN and be subsequently removed from the course. Once removed I will not vouch to have you reinstated, so please ensure you complete this practice exam as soon as possible.

Requirements:
There are two mid-term problem-solving exams, plus the final exam. Each exam addresses the entire material previously studied in the course. (In other words, each exam is "cumulative.")

Exam dates:
Exam 1: Thursday, October 1 during the scheduled class time
Exam 2: Tuesday, November 3 during the scheduled class time
Exam 3 (final): Scheduled By CUNYFirst

Final Grade:
Final grade in the course is computed as follows: Let s_1 be your percentage score on the first exam, s_2 be the percentage score on the second exam, s_3 be the percentage score on the third exam, and p be the score on the final project. The total grade score for the entire course is obtained as:

$$\Gamma \quad = \quad 35\% \cdot max(s_1, s_2) \quad + \quad 35\% \cdot s_3 \quad + \quad 30\% \cdot p$$

Once the total grade score is computed, letter grades are assigned using university guidelines.
https://www.qc.cuny.edu/Academics/SupportPrograms/advising/Academic-and-Grading-Policies/Pages/Default.aspx

Automatic makeup:
Your exam component is calculated as the average of your final and your stronger midterm.

If you are unable to take a midterm, or you have taken it and received an unsatisfactory grade, you cannot take a make-up exam, but the automatic make-up (explained in the grading formula above) will apply in all such cases, and no alternative examination time will be available to individual students, regardless of the reasons for non-attendance.

There will be no makeups for the final, with the exception of extreme health related scenarios provable with credible documentation. Documentation of such events must be submitted to the Undergraduate Scholastic Standards Committee for validation.
https://www.qc.cuny.edu/Academics/AcademicSenate/USSC/Pages/default.aspx

By registering for this section and staying in the course, you agree to take all the examinations at the times stated, and acknowledge the grading rules above. Your ability and readiness to follow the course protocol is a component of the technical proficiency required for a passing grade.

Grading Policy:
Exams can be reviewed during office hours.

If a student believes that a grading error has occurred on an exam, please send an email to me. In your email, details what component element is being contested, and why. There must be "indisputable evidence" that the original grade was incorrect. Feeling that a component was too harshly penalized is not valid; judgement calls are up to the instructor. Please note that unwarranted requests for grade review, which compound the original error, may lead to reduction of the original grade. All such requests must be received within two week of an item being graded.

Exam Policies:
Administering exams for large class sizes remotely poses it's own unique set of challenges. To ensure fairness and integrity of the course, all students must adhere to the following exam policies:

Exams must be completed individually within the supplied time frame. Asking for or receiving any assistance during an exam is expressly forbidden. This includes using websites like Chegg or student chat groups. To combat this, all of these will be constantly monitored.

Creating a copy or distributing any part of the exam is expressly forbidden. All exams administered are **marked with both visible and hidden (steganography) identifiers**. If it is concluded that a student has created a copy of the exam or any exam questions and has leaked that information (even after the conclusion of the exam), that student shall immediately fail the course, and an academic integrity report will be filed with the Office of Student Conduct.

Collaboration Policy:
With regard to assessments and projects, they are designed to be completed individually. While students are encouraged to discuss concepts and share ideas. These discussions must be kept at a general level, without exposing your solutions. Please acknowledge these collaborations in your submissions.

All submitted code must be written by yourself. Students are only allowed to copy code that was directly supplied by instructors. Sharing of code with other students is strictly prohibited. You must never receive or view someone else's solutions to a programming assignment.

By taking this class you are pledging to not share your solution with your classmates.

Students may not post solutions for any current assignment to public websites. This includes public repositories on GitHub and other version control software. If you are using these tools make sure the repositories are set to private. As of 2019 the 3 major code repository sites GitHub, BitBucket, and GitLab offer free private repos. Protect your code, the college does not distinguish between sharer and receiver. If your solution is submitted by another student, both students face penalties.

	COURSE FACULTY	CS 355 GRADS	CLASS-MATES	OTHER PEOPLE
DISCUSS CONCEPTS WITH:	✓	✓	✓	✓
ACKNOWLEDGE COLLABORATION WITH:	✗	✓	✓	✓
EXPOSE YOUR CODE/SOLUTIONS TO:	✓	✓	✗	✗
VIEW THE CODE/SOLUTIONS OF:	✗	✗	✗	✗
COPY CODE/SOLUTIONS FROM:	✗	✗	✗	✗

Plagiarism Detection:
We use Stanford MOSS (`https://theory.stanford.edu/~aiken/moss/`), an Artificial Intelligence tool that detects plagiarism by comparing each submission against all other submissions. Stanford MOSS can defeat most anti-plagiarism tricks including renaming variables, reorganizing statements, and reversing if/else statements. All assignment submissions (as well as those from previous semester submissions if applicable) are passed through Stanford Moss to detect for plagiarism.

Academic Violations:
All alleged academic violations (including cheating on exams, plagiarism and abetting plagiarism) is referred to the Office of Student Conduct. If found responsible, students will immediately receive an F as a course grade plus whatever penalties the university imposes. Possible penalties include a required ethics class, loss of financial aid, and suspension depending on the severity.

Special Cases:
Any personal requests/extensions/date changes will generally be answered with No. As a rule I try not to give preferential treatment to anyone in my classes. If you believe your case warrants it please bypass me and contact the appropriate student body instead. I've listed the main entities that I've interacted with in the past, but this list is not exhaustive.

Undergraduate Scholastic Standards Committee
`https://www.qc.cuny.edu/academics/academicsenate/ussc/Pages/default.aspx`
Office of Student Conduct
`https://www.qc.cuny.edu/studentlife/services/studev/Pages/default.aspx`
Special Services for Students with Disabilities
`https://www.qc.cuny.edu/StudentLife/services/specialserv/Pages/default.aspx`
Department of Computer Science
`https://www.qc.cuny.edu/academics/degrees/dmns/computerscience/Pages/default.aspx`
Office of the Provost
`https://provost.qc.cuny.edu`

Addendum from the Department Chair
F (Failing) is assigned for work that, in the judgment of the instructor, does not deserve college credit. WU (Withdrawn Unofficially) is assigned by the instructor to indicate that the student stopped attending the course before the end of the semester; or as a result of excessive absences there is no basis to give a final letter grade of A+ to F, and the conditions for a grade of INC do not apply. Therefore, a student who attended classes and showed up for exams is to be evaluated based on his/her work, and gets a grade of A+ to F, not WU. On the other hand, a student who stopped attending classes at some point and skipped the final exam without any attempt to communicate with the instructor should get WU, not F (certainly not D or better). Any request from a student who disappeared from your class to change his/her WU to F should be rejected.

WU Policy
Students who make an attempt for any two exams (regardless of grade) will not receive a WU.