CSCI 49900, Spring 2023

Advanced Applications, a Capstone for Majors

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Office Hours: Monday in-class and by appointment

This syllabus is subject to change.

Course Description: This course is a culmination of the Computer Science Major at Hunter College and gives students the opportunity to work on a major project in their area of interest.

Prerequisite(s): All non-elective courses in Computer Science required for graduation or permission of instructor.

Credits: 4

Course Objectives:
There are two related goals for this class. The first is to assess the students' mastery of the department's stated learning goals. The second is to assess the department's effectiveness in addressing these goals. The listed department goals may be found on the Hunter website.

Grade Distribution:

Project	30%
Research Paper Implementation	10%
Weekly Presentations	50%
Project Pitch	4%
Final Report	2%
Peer Reviews	4%

More detailed info regarding each of these categories may be found in the appendix at the end of this document. (Sections will be added).

Note that attendance is implicit in the weekly presentation grades. Monday's are optional office hours unless there is a quiz or otherwise required by me. To put it another way, attendance will not be taken on Monday's, unless I specify a week in advance. Student's are still encouraged to come with questions and to work with their team in class during office hours.

It is highly encouraged to send me questions a day in advance so I can prepare. I am also very flexible to meet on Discord outside of class, so feel free to send a message to schedule any meetings

you may need.

Course Policies:

- **Attendance** Attendance is expected for each and every class meeting. Each student is allowed five (5) absences for any reason except on days when there are presentations or exams. Absences exceeding the allowance or absence on a presentation day for any reason results in a 0.2 percent deduction from the attendance grade.

- **Academic Violations** Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The college is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures. Special attention is given to CONTRACT CHEATING (this is where students have work completed on their behalf which is then submitted for academic credit).

- **E-mail** Emails to the instructor must be via a CUNY email addresses for FERPA reasons. Please post all class-related discussion on Piazza. Also, please ensure that your correct email address is entered into the CUNY Blackboard.

- **Counseling and Wellness Services** Counseling and Wellness Services (CWS) provides mental health, health and wellness services aimed at enhancing students' quality of life and maximizing personal and academic growth and development. More information can be found on the Counseling and Wellness Services website.

- **Special Needs** Students with special needs should see me for accommodation.

- **ADA Compliance** In compliance with the American Disability Act of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and / or medical conditions. It is recommended that all students with documented disabilities (Emotional, Medical, Physical and / or Learning) consult the Office of Accessibility located in Room E1124 to secure necessary academic accommodations. For further information and assistance please call (212-772-4857)/TTY (212-650-3230).

- **Family Educational Rights and Privacy Act (FERPA)**

  The Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. § 1232g; 34 CFR Part 99) is a Federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's education records. These rights transfer to the student when he or she reaches the age of 18 or attends a school beyond the high school level. Students to whom the rights have transferred are "eligible students."

  - Parents or eligible students have the right to inspect and review the student's education records maintained by the school. Schools are not required to provide copies of records unless, for reasons such as great distance, it is impossible for parents or eligible students to review the records. Schools may charge a fee for copies.

  - Parents or eligible students have the right to request that a school correct records which they believe to be inaccurate or misleading. If the school decides not to amend the record, the parent or eligible student then has the right to a formal hearing. After the hearing,

if the school still decides not to amend the record, the parent or eligible student has the right to place a statement with the record setting forth his or her view about the contested information.

-Generally, schools must have written permission from the parent or eligible student in order to release any information from a student's education record. However, FERPA allows schools to disclose those records, without consent, to the following parties or under the following conditions (34 CFR § 99.31): School officials with legitimate educational interest; Other schools to which a student is transferring; Specified officials for audit or evaluation purposes; Appropriate parties in connection with financial aid to a student; Organizations conducting certain studies for or on behalf of the school; Accrediting organizations; To comply with a judicial order or lawfully issued subpoena;

Appropriate officials in cases of health and safety emergencies; and State and local authorities, within a juvenile justice system, pursuant to specific State law.

Schools may disclose, without consent, "directory" information such as a student's name, address, telephone number, date and place of birth, honors and awards, and dates of attendance. However, schools must tell parents and eligible students about directory information and allow parents and eligible students a reasonable amount of time to request that the school not disclose directory information about them. Schools must notify parents and eligible students annually of their rights under FERPA. The actual means of notification (special letter, inclusion in a PTA bulletin, student handbook, or newspaper article) is left to the discretion of each school. For additional information, you may call 1-800-USA-LEARN (1-800-872-5327) (voice). Individuals who use TDD may use the Federal Relay Service. Or you may contact us at the following address: Family Policy Compliance Office U.S. Department of Education 400 Maryland Avenue, SW Washington, D.C. 20202-8520

- **Sexual Misconduct**

  In compliance with the CUNY Policy on Sexual Misconduct, Hunter College reaffirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-based harassment retaliation against students, employees, or visitors, as well as certain intimate relationships. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College. a. Sexual Violence: Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646- 610-7272) or their local police precinct, or contacting the College's Public Safety Office (212-772-4444). b. All Other Forms of Sexual Misconduct: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (jtrose@hunter.cuny.edu or 212-650-3262) or Colleen Barry (colleen.barry@hunter.cuny.edu or 212-772-4534) and seek complimentary services through the Counseling and Wellness Services Office, Hunter East 1123. CUNY Policy on Sexual Misconduct Link:

  http://www.cuny.edu/about/administration/offices/la/Policy-on-Sexual-Misconduct- 12-1-14-with-links.pdf

Appendix A - Project grade   The number you receive for your project grade is calculated as follows: Let $\mathcal{G}$ be the set of people in your group, and G be the overall grade of the final project (a number between 0 and 40). Let $g_{i,j}, i \neq j, i, j \in \mathcal{G}$ be the grade i gives to j. Then j's "peer grade" is

$$G_j = \sum_{i \neq j, i \in \mathcal{G}} \left(\frac{g_{i,j}}{\sum_{i \neq j, j \in \mathcal{G}} g_{i,j}} \right)$$

The peer grade for student j is multiplied by the total project grade G to produce the final project grade for that student.

Here is the breakdown of the project components. Note that I add components as the semester progresses, but once I have a component defined here, it is fixed.

Appendix B - Project Pitch   Describe what product/software you are developing. Also the project pitch serves as the first weekly presentation, so each team member has to describe in detail what they will be working on the following week.

Appendix C - Weekly Presentations   Note that 1/2 of the grade consists of weekly presentations. This course is based on an agile development workflow (Which you will probably find yourself doing when you go out and get a job), and as such, finished implementations are required **each week**. So each week, each individual team member must present on what they worked on, as well as discuss what they plan on finishing by the next week. Work will be tracked on GitHub, and checked weekly for any plagiarism.

Since this is the culmination of the CS major, each student is expected to spend from 10-20 hours per week doing actual coding/implementation work.
Presentations should reflect that level of input, otherwise a low grade will be given (Unless you can offer substantial proof that you spent 10-20 hours of work and hit a dead-end, but in general I err towards the side of skepticism, so you need to make a very strong case if so).