CS312 Internet Concepts
Syllabus for Spring, 2021

Instructor:  Dr. Ralph Grove
Email:  rgrove@odu.edu
Website:  https://www.cs.odu.edu/~rgrove
Office Hours:  Office meetings will be conducted via Zoom.
See https://www.cs.odu.edu/~rgrove/officehours for time and connection details.
Alternate appointments can be requested if the posted times are not convenient.

Teaching Assistant:  TBA

Schedule:  Meeting Time:  Mon, Wed 4:20-5:35 pm; January 19 through April 28
           Location:  Online (see Blackboard for connection information)
           Midterm exam:  Wednesday, March 10th (tentative date)
           Final exam:  Monday, May 3rd (no exceptions)

Class Format:
This is an online synchronous class. This means that all students are expected to attend the class online, at
the designated time. The grading scheme includes a class participation component that requires students to
log in and participate in class activities for the duration of each class period. Participation will require use of a
video camera during class, such as a notebook computer or smartphone camera. Classes will be presented via
Zoom and Blackboard. Exams will be given online, via Blackboard.

Course Description:
Laboratory work required. An in-depth introduction to the Internet and the World Wide Web for CS or similar
majors as a basis for more advanced studies in Web programming. Topics include: historical and current
development of the Internet Web document publishing. Internet design, communication, and application
protocols and the tools that use them. Internet search tools and their design. Internet issues such as netiquette,
copyright, spam, computer viruses, cookies, security, and future of the Internet. Prerequisites: CS 252.

Learning Objectives:
• Understand essential Internet and Web history, design principles, protocols, and tools.
• Construct a basic web site using PHP, HTML, CSS, JavaScript, and SQL.
• Deploy a web site in the cloud.
• Apply principles of security, internationalization, accessibility, and privacy.

Course Content:
• Internet and Web History, Architecture, and Protocols (4 weeks): History and state of the Internet and
  Web, application protocols, search algorithms, cloud computing
• Web Programming (5 weeks): HTML, Javascript, CSS, PHP, Ajax, state management
• Privacy & Security (2 weeks): Encryption, Security Threats, Privacy
• Reliability & Efficiency (1 week)
• Internationalization and Accessibility (1 week)

           (available through bookstores and online through ODU Libraries)

Website:  http://www.blackboard.odu.edu
           http://www.cs.odu.edu/~rgrove/cs312

Unix Server:
• You will need an account on the CS Department Unix servers to complete class assignments. Visit the
  "Account Creation" link on the CS Department website (https://odu.edu/compsci) if you don't already
  have an account.
Assessment:

• Semester grades will be based on a weighted combination of the following items:
  • Class Participation (12%): Students will complete group and individual exercises during class to practice and explore topics under discussion.
  • Homework (15%): Individual homework assignments will reinforce topics covered in class and in the readings.
  • Project (40%): Each student will develop an interactive web site over the course of the semester, and will deploy the website onto a compute cloud.
  • Exams (33%): A midterm exam will be given near the middle of the semester, and a final exam will be given during the final exam period.

• Scale: (minimum percentage points required / grade)
  93/A, 90/A-, 87/B+, 83/B, 80/B-, 77/C+, 73/C, 70/C-, 67/D+, 60/D, 0/F

• Grading:
  • Inquiries or disputes concerning grading should be made promptly, within 10 days of the posting of a grade. Older grades will not be reconsidered at the end of the semester.
  • Grading of some assignments will be performed by a teaching assistant.

• Late Assignments:
  • A grade penalty of 10% will be assessed for assignments submitted up to 2 days late. No assignments will be accepted more than two days late.
  • No extensions to assignment due dates will be given due to illness, school activities, routine problems etc., since there is plenty of time to complete assignments before the due date, with allowance for these situations. Extensions will be considered in the case of serious family emergencies, extended illness, or other lengthy absence only, and must be requested prior to the due date.

Class Policies:

• Absences:
  ◦ If you miss a class, you are responsible for material covered in that class, including any assignments and announcements made in class. Details of activities and assignments will be available on Blackboard.
  ◦ Exams will be rescheduled only in the case of serious illness or emergency. Appropriate evidence may be requested. Students must notify the instructor in advance of the missed exam in order to reschedule.

• Academic Honor Code
  ◦ Old Dominion University is committed to students’ personal and academic success. In order to achieve this vision, students, faculty, and staff work together to create an environment that provides the best opportunity for academic inquiry and learning. All students must be honest and forthright in their academic studies. Your work in this course and classroom behavior must align with the expectations outlined in the Code of Student Conduct, which can be found at www.odu.edu/oscai. The following behaviors along with classroom disruptions violate this policy, corrupt the educational process, and will not be tolerated.
    ▪ Cheating: Using unauthorized assistance, materials, study aids, or other information in any academic exercise.
    ▪ Plagiarism: Using someone else’s language, ideas, or other original material without acknowledging its source in any academic exercise.
    ▪ Fabrication: Inventing, altering or falsifying any data, citation or information in any academic exercise.
    ▪ Facilitation: Helping another student commit, or attempt to commit, any Academic Integrity violation, or failure to report suspected Academic Integrity violations to a faculty member.
  ◦ Academic dishonesty will be reported to the Office of Student Conduct & Academic Integrity and may result in sanctions up to and including expulsion from the University.
• **Accessibility**
  - Students are encouraged to self-disclose disabilities that have been verified by the Office of Educational Accessibility by providing Accommodation Letters to their instructors early in the semester in order to start receiving accommodations. Accommodations will not be made until the Accommodation Letters are provided to instructors each semester.

• **Classroom Etiquette:**
  - While class is in session, please focus on the class and be part of the group.
  - Please mute your microphone when you're not speaking, to minimize disruption.
  - Feel free to interrupt lectures at any point if you have questions.

• **Discussion Forums:**
  - Please post questions (and answers) about assignments, general questions about the class subject, and any interesting and relevant news items to the Blackboard discussion forums. Students can learn a lot from each other, and these forums are a great way for you to help others by sharing what you know.

• **Email:**
  - When sending email, always include the class number in the subject line, e.g., Subject: **CS312 homework 2 questions**
  - This will help me to provide a quicker response to your message.