Instructor Info

Zerksis D. Umrigar
Office: EB N26 **Zoom Link**:
<https://binghamton.zoom.us/my/umrigar>
Zoom Office Hours: Tue, Thu: 1:35 - 2:45p.
CS 444 Email: umrigar+cs444@binghamton.edu
CS 544 Email: umrigar+cs544@binghamton.edu

- You **must** use the email address for the course you are registered for.
- I will usually get back to you within 24 hours, usually much sooner.

TA/Grader Info

Will be responsible for **all** grading. All questions regarding the grading of an assignment should first be addressed to the grader.

- Necati A Ayan
  Zoom Link: Here
  Office Hours: Wed 2:00 - 3:00p
  Email: nayan1@binghamton.edu
  Github ID: `necatianil`
  Responsibilities: All grading

Texts

No text, the course will make heavy use of online resources.

Evaluation

- Pop quizzes will test on material covered recently.
- 4-5 projects some of which will build on each other.
- 4-5 homeworks.
- Midterm.
- Final.

Grading

Pop Quizzes (lowest dropped):	12%
Projects (lowest dropped)	35%
Homeworks (lowest dropped)	444: 25%; 544: 22%
Paper	544 only: 3%
Midterm:	13%
Final:	15%

- All exams and quizzes will be online and hence will be open-book, open-notes. You are allowed to use any material, but are not allowed to collaborate with any other people.
- A pop quiz will usually have 5 questions with 2 points per question + 2 points for attempting the quiz.

Late Submission Policy

- You are allowed to submit assignments late by up to 3 days.
- You may not use more than 7 late days over all assignments over the entire semester.
- A day will count as 24 hours, irrespective of holidays or weekends.
- Late homeworks can be turned in during class or during office hours to either me or the grader.
- Late submissions will not be accepted for some assignments, especially before an exam or towards the end of the semester.

Academic Honesty

Cheating of any type will be penalized heavily.

- Minimal penalty: letter grade dropped by one slot: i.e. an A becomes an A-, a B- becomes a C+, etc.
- Permissible to collaborate to understand course material, homework questions or project assignments. Not permissible to discuss solutions.
  - If you feel you may have inadvertently crossed the line, then let us know; will not be considered cheating.
  - If submitting an assignment late after the solution has been posted, you should obviously not be looking at the solution.
- All registered students must sign and complete an *Academic Honesty Statement.*

Letter Grade Assignment

- Letter grades will be assigned strictly monotonically based on the numeric course grade.
- A letter grade of A will be given only for consistent superior work.
- It should be relatively easy to get a grade of around a B.
- You will get an F only if you miss turning in a lot of work or submit consistently very poor quality work or if you cheat.
- TA *Grading Guidelines* are available.

Course Web Site

- All course material on course web site at *<http://zdu.binghamton.edu/cs544>*.
- Course web site mirrored at *<http://cs.binghamton.edu/~umrigar/cs544>*. Dynamic portions of the web site will not be mirror'd.
- Slides usually available an hour before class. PDF's look better and will be used in class until HTML slides made better, but links from PDF version of slides do not always work. Slides may be updated up to one week after class to fix mistakes or make enhancements.
- Course web site available via `git` repository at `ssh://`*user*`@remote.cs.binghamton.edu/~umrigar/git-repos/cs544.git`. Useful for tracking changes.

Course Mailing List

- All students registered for the course should have been subscribed to the CS544 mailing list.
- To change the email address via which you are subscribed to the list or would like to edit your subscription options, please visit *<https://www.cs.binghamton.edu/mailman/listinfo/cs544>*.

Problems

- If you are having problems, please see me ASAP; **do not wait till the end of the semester**.
- Flexible regarding deadlines under exceptional circumstances.
- If you are experiencing undue personal or academic stress at any time during the semester or need to talk with someone about a personal problem or situation, I encourage you to seek support as soon as possible. I am available to talk with you about stresses related to your work in my class.

Contact Info for Help

Dean of Students Office 607-777-2804

Decker Student Health Services Center 607-777-2221

University Police On campus emergency, 911

University Counseling Center 607-777-2772

Interpersonal Violence Prevention 607-777-3062

Harpur Advising 607-777-6305

Office of International Student & Scholar Services 607-777-2510

University Ombudsman Main campus: 607-777-2388; University Downtown Center office 607-777-2388

Services for Students with Disabilities 607-777-2686 (Voice, TTY)

Catalog Description

An in-depth understanding of programming for the World Wide Web: detailed coverage of widely used language(s) for web programming, asynchronous programming, principles of web architecture, web protocols, web design patterns, client-side programming, templating, server-side programming, a technical history of the web, web security. Students are expected to have experience with a modern programming language and will be assigned programming projects using current state-of-the-art web technologies.

Some Topics

- Javascript: 4-5 weeks.
- Asynchronous programming.
- Technical history of the web.
- HTTP protocol.
- Web architecture, Representational State Transfer (REST).
- Web services.
- Browser technologies.

Will build out from browser to server.

Less Emphasis

- HTML
- CSS
- Particular web frameworks (we will cover some frameworks relatively superficially).

No Coverage

- Portable code which runs across multiple browsers/platforms. We will simply target stable versions of `nodejs` and `chrome`.
- Device-specific capabilities.

ABET Accreditation Outcomes

For ABET *Networking & Communications*, this course will cover:

- The HTTP protocol.
- HTTP caching.
- Handling of HTTP errors.

This will be measured using project 3.