

CS 479: Web Programming II

Fall 2022

Syllabus and Information

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1 General Information

1.1 Contact Your Instructor

Name: Gage Golish

Email: Gage.Golish@indstate.edu

Phone: (812) 564-9050

Office: Online

Office Hours: Online, see Canvas course

1.2 Lecture, Office Hours

Lecture: Online asynchronous

Section: CS 479/579 301

Credit Hours: 3

GA Tutoring: During the fall and spring semesters, there are graduate assistants scheduled to work in the UNIX lab, Root Hall A015. This is a place where you can go to work on your programs, and receive help if necessary.

1.3 Prerequisites

Undergraduate level CS 170 and CS 201 with a Minimum Grade of C, or Graduate level CS 500 with a Minimum Grade of C.

1.4 Recommended Text

There are no required textbooks for this course. However, suggested readings will be posted on Canvas and will be freely available online.

1.5 Course Announcements

Announcements regarding the course will be made via email to your @sycamores.indstate.edu email address. You should regularly check this email account or have it forwarded to an account that you check regularly. Announcements will also be made on the course's Canvas site.

2 Course Outline

This course will be broken up into 2 week modules. The following is a rough breakdown of the topics that will be explored in those modules.

- Review / Introduction to JavaScript and NodeJS (2 weeks)
- Introduction to asynchronous programming and CRUD APIs (2 – 4 weeks)

- TypeScript and NodeJS tooling / pipelines (2 weeks)
- Exploration of advanced front end concepts and frameworks (2 – 4 weeks)
- HTTP vs HTTPS and TLS certificates, authentication techniques (2 weeks)
- Other popular backend API technologies, such as gRPC (2 weeks)

Additional topics such as version control and unit testing will be addressed.

3 Grading and Assignments

The students of this course have the following responsibilities: read assigned readings, watch lectures, complete homework assignments, take in-class quizzes, take exams, and complete a project. The final grade will be calculated as follows:

- **Homework:** 60% total. There will be at least one new homework assignment per module. Each homework assignment will be due on the last day of the module, which will always be a Sunday. In addition, there will be a culminating software project.
- **Quizzes:** 20% total. There will be a quiz for each module, which will be due on the last day of the module.
- **Exams:** 20% total. There will be two exams given that will be style similarly to the quizzes given in each module. One exam will be given roughly halfway through the semester, the other will be given as a final exam.

3.1 CS Course Policies

Note that this course follows all standard CS course policies. In particular check the CS course policies related to - cheating/plagiarism, attendance, missing exams. See this page for details.

3.2 Late Homework

All homework assignments will be given a preferred due date. Assignments can be turned in past the preferred due date if there is good reason. Any assignment discussed in depth in class are effectively closed, no credit will be given.

3.3 Start Homework Early

We suggest attempting a homework assignment the day it is given, or the day after, so that if you have a problem you can ask early. If you continue to have problems in trying to complete the assignment, you will have time to ask again. Many of the homework assignments require thought and problem solving, which takes “time on the calendar” not just “time on the clock”. By that we mean that spending two hours on 3 consecutive days may be more productive than trying to spend 6 hours at once on the assignment.

3.4 Expected Amount of Work

My expectation is that an average student will spend about 4 hours *outside* of class each week (that is in addition to class time) *working productively/efficiently* (not just staring at the computer) to complete their coursework for this class. Some students may spend less time than this, and some students will spend more.

3.5 Grade Cutoffs

We try to design homework assignments and exams so that a standard cutoff for grades will be close to what you deserve. After the first exam a grade will be created in Blackboard called “Letter Grade” that is what your letter grade would be if the semester ended today. Initially, I will likely assign the following grades: 93-100 A, 90-93 A-, 87-90 B+, 83-87 B, 80-83 B-, 77-80 C+, 73-77 C, 70-73 C-, 67-70 D+, 63-67 D, 60-63 D-, 0-60 F

Our goal is that the different grades have the following rough meaning:

- **A+/A:** You can do all the assignments on your own.
- **B+/A-:** You understand nearly everything, and should be all set to use this knowledge in other courses or in a job.
- **B-/B:** Most things you understand very well and a few you might not (more towards the former for a B and more towards the latter for a C).
- **C/C+:** Learned enough and have the minimum skills to move on in the subject.
- **D+/C-:** You did put some effort in, and understand many things at a high level, but you haven't mastered the details well enough to be able to use this knowledge in the future.
- **D-:** Students will normally not get an F if - you attend 80% of the lectures, complete some of the assignments up through the end of the course, and get nearly half of the problems on the final exam correct.
- **F:** Normally, students that get an F simply stopped doing the required work at some point.

4 Academic Integrity

Follow the standard CS course policies in terms of what is and is not allowed on assignments found here. Please ask the instructor if you have doubts about what is considered cheating in this course.

5 Special Needs/Student Disabilities

Indiana State University recognizes that students with disabilities may have special needs that must be met to give them equal access to college programs and facilities. If you need course adaptations or accommodations because of a disability, please contact us as soon as possible in a confidential setting either after class or in my office. All conversations regarding your disability will be kept in strict confidence. Indiana State University's Student Support Services (SSS) office coordinates services for students with disabilities: documentation of a disability needs to be on file in that office before any accommodations can be provided. Student Support Services is located on the lower level of Normal Hall in the Center for Student Success and can be contacted at 812-237-2700, or you can visit the ISU website under A-Z, Disability Student Services and submit a Contact Form. Appointments to discuss accommodations with SSS staff members are encouraged.

Once a faculty member is notified by Student Support Services that a student is qualified to receive academic accommodations, a faculty member is obligated to provide or allow a reasonable classroom accommodation under ADA.

6 Disclosures Regarding Sexual Misconduct

Indiana State University fosters a campus free of sexual misconduct including sexual harassment, sexual violence, intimate partner violence, and stalking and/or any form of sex or gender discrimination. If you disclose a potential violation of the sexual misconduct policy I will need to notify the Title IX Coordinator. Students who have experienced sexual misconduct are encouraged to contact confidential resources listed below. To make a report or the Title IX Coordinator, visit the Equal Opportunity and Title IX website:

<http://www.indstate.edu/equalopportunity-titleix/titleix>

The ISU Student Counseling Center

HMSU 7th Floor
812-237-3939
www.indstate.edu/cns

The ISU Victim Advocate

Trista Gibbons, trista.gibbons@indstate.edu
HMSU 7th Floor
812-237-3939 (office)
812-230-3803 (cell)

Campus Ministries - United Campus Ministries

812-232-0186
<http://www2.indstate.edu/sao/campusinistries.htm> www.unitedcampusministries.org
ucmminister2@gmail.com
321 N 7th St., Terre Haute, IN 47807

Covid-19 Issues

All things related to Covid-19

For more information on your rights and available resources:

<http://www.indstate.edu/equalopportunity-titleix/titleix>