

CS 170 Web Programming

Fall 2018 - Syllabus and Information

Contact Your Instructor

Name: *Luke May*

Email: Luke.May@indstate.edu

Office: Root Hall, A-138A (ground floor, near west entrance, on north side of the hallway)

Website: <https://cs.indstate.edu/~lmay1/cs170>

Instructor/class Directories (cs.indstate.edu):

/u1/h5/lmay1

/u1/class/cs17000

Slack workspace: luke-may-cs170-fa2018.slack.com

Lecture:

T/Th 12:30 am - 1:45 pm

Root Hall A012

Final Exam:

T 12/11/2018 1:00 pm

Instructor Office Hours:

Th 9:45 am - 10:45 am

Root Hall, A-138A (ground floor, near west entrance, on north side of the hallway)

The above are my official office hours. I am usually available Tuesdays and Thursdays from 9:30 am until my 11:00 am class. If those times will not work for you, you may contact me so we can set up alternative time to meet.

GA Tutoring: See <http://cs.indstate.edu/info/labs.html>

Prerequisites

A grade of C or better in CS-151.

Recommended Texts (not required)

JavaScript: The Good Parts by Douglas Crockford

JavaScript Patterns by Stoyan Stefanov

Free e-book: [You Don't know JS](#)

Course Announcements

Announcements regarding the course will be made both during class and 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. I highly recommend you install [slack](#) to aid in class discussions and communications. It is not a requirement, but it will be very useful, and I've had excellent success using it so far. The slack workspace is **luke-may-cs170-fa2018.slack.com**.

Classroom conduct

You may not use cell phones, iPods/music players, etc. during class. You should be civil and respectful to both the instructor and your classmates, and you should arrive to class a few minutes before the scheduled lecture

so you are ready for lecture to begin on time. You may use your computer during class if you are using it to follow along with the examples that are being discussed. You may not check facebook or work on other courses, etc. during class.

Course Description

The official description of this course from the catalog is:

An introduction to World Wide Web programming methods and scripting languages. Includes Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), Dynamic Hypertext Markup Language (DHTML), JavaScript, and VBScript. Prerequisite - C or better in CS 151.

Course Outline

- Using Unix (refresher)
- Client Server relationships
 - Understanding Apache as a System Service
 - Front-end Back-end Architecture
- HTML and CSS (refresher)
 - Document Object Model (DOM tree)
- Code Editors, Linters, and Workflow
- JavaScript Event Loop and Asynchrony
 - Events
 - setTimeout() and setInterval()
 - Promises
- Latest EcmaScript Additions:
 - Arrow Functions
 - Rest and Spread operators
 - .forEach() and .map()
 - Binary, octal, hex literals
 - Template string and interpolation
- The JavaScript Prototype
 - Objects, prototypes, and new
 - The “this” keyword
 - Regular Expressions
 - ES6 classes
- Abstraction techniques and code reuse
 - Building web components
- Intro to PHP (Hypertext Preprocessor)
- Build Tools - webpack, gulp (time permitting)
- Testing tools - jasmine, mocha, jest, ava (time permitting)
- Common frameworks (time permitting)
 - KnockoutJS
 - Vue
 - React

Learning Outcomes

- Client-server relationship and front-end back-end architecture
- Editors, multi-file projects, code linters, and workflow
- The JavaScript event loop and asynchrony

- The JavaScript prototype and the `this` keyword
- EcmaScript latest additions
- Regular expressions
- Intro to PHP: Hypertext Preprocessor

Expected Amount of Work

If you take this class seriously and get what you should out of it, some weeks you will likely be spending around **3-5 hours/week** or more on the class. The students who get A's in their CS courses and have an easy time finding jobs do spend this much time on this course. Not everyone would need to spend this much time and not all weeks will be the same, but you should plan on putting in whatever time it takes.

Note - your classes should be more important than your part-time job.

Grading and Assignments

The students of this course have the following responsibilities: read assigned readings before lecture, attend lecture, complete homework assignments, take in-class quizzes, take exams, and complete a project.

Homeworks, Labs, and Quizzes: 40% of total grade

Exams: 30% of total grade

Participation: 15% of total grade

Final Project: 15% of total grade

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 <http://cs.indstate.edu/info/policies.html> for details.

Late Homeworks

Late homeworks will not be allowed to be turned in for credit, mainly because they will be used as a learning tool, and the answers will be given out after the assignments are collected. Labs may be turned in for half credit, but you will only have 2 weeks after the due date (or the date of the final exam whichever comes first), after which the late work will not be accepted. **It is your responsibility to notify me via email when you have turned in a late assignment.** If I am not notified via email, I will not grade it.

Start Homeworks 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.

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.

Blackboard

The course has a blackboard site. Click [here](#) to go to blackboard. You should see this course listed under your courses for the current term. The blackboard site is only used for giving you your grades (go to the course in blackboard, then click "My Tools", and then "My Grades"). All course content, schedule, etc. is kept in this google doc (which you are currently viewing).

Academic Integrity

Follow the standard CS course policies in terms of what is and is not allowed on assignments:

<http://cs.indstate.edu/info/policies.html>

Please ask the instructor if you have doubts about what is considered cheating in this course.

Special Needs / Student Disabilities

Standard language included in the syllabi for ISU courses.

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.

Disclosures Regarding Sexual Misconduct

Standard language included in the syllabi for ISU courses.

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/campusministries.htm>

www.unitedcampusministries.org | ucmminister2@gmail.com

321 N 7th St., Terre Haute, IN 47807

For more information on your rights and available resources

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