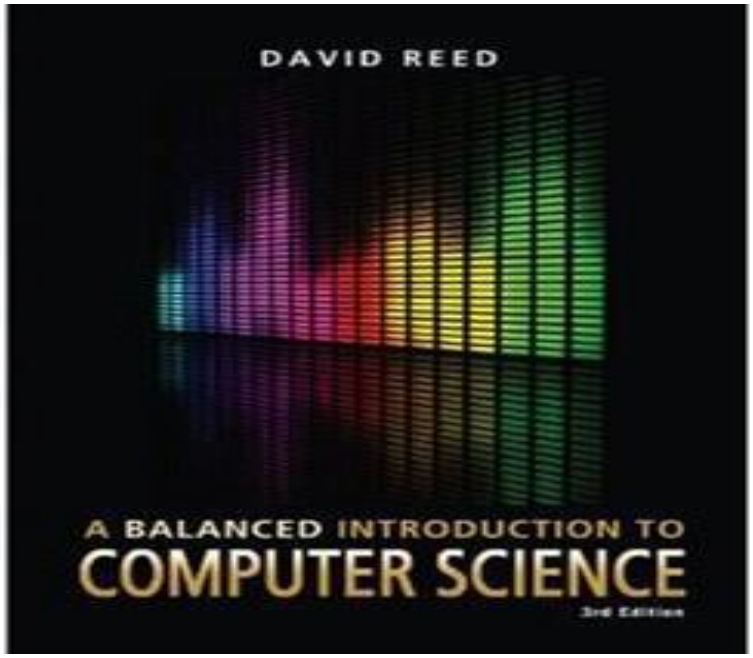
CS 110 Syllabus - Introduction to Computer Science and Web Programming

Instructor: Mrs. Min Zhang, Instructor

Education: M.S., Ball State University

Required Textbook (available from campus bookstore):



Title: A Balanced Introduction to Computer Science (3rd Edition)

Author: David Reed

Publisher: Pearson Prentice Hall

Copyright: 2011

ISBN: 978-0-13-216675-1

Online Resources: A BSU network account for email and Canvas

Course Description:

CS110 is an introduction to Web programming utilizing HTML and a Web programming language. A broad survey of computer science including its history, applications, programming languages, and computer architecture. There will be both lecture and laboratory.

Course Objectives:

The student is expected to acquire knowledge of the development and use of computing technology, be able to make connections between computing technology and several other disciplines, and be able to identify and explain significant implications of widespread use of computing technology.

By the end of this course, students will be able to:

1. Explain the historical background and technology that led to development and growth of computers and the Internet.

2. Use the common applications of the Internet and explain significant implications of the pervasive use of the Internet, including issues concerning freedom of speech, privacy, and intellectual property.

3. Identify, compare, evaluate, and use language constructs in HTML, XSL and XML in designing Web pages that include text, sound, images and data structures.

4. Identify, compare, evaluate, and use elements of HTML forms and JavaScript to make Web pages interactive and to give data-processing capabilities to Web pages.

5. Identify and explain machine languages, high-level languages, and basic issues involved in programming language translation.

6. Recognize the basic physical building blocks that computers are constructed from and explain how they can be combined into computers.

7. Explain a reasonable theoretical model of computer programs and identify some of the problems that cannot be solved by such a model.

8. Identify possible major trends in computer use and explain possible implications of such trends.

Tools:

1		You need to have a Desktop PC or laptop or Mac. If you live in Muncie and do not have a computer, you can rent a laptop from BSU Bracken Library.
2		Notepad/Notepad ++ is a simple text editor for Microsoft Windows and a basic text-editing program which enables computer users to create documents. You can use Notepad to create HTML and JavaScript files.
3		*Notepad++* is an *online* source code editor and *Notepad* replacement that supports several programming languages. *Notepad++* has the built-in Windows text editor, it supports tabbed editing, which allows working with multiple open files in a single window. You can use Notepad++ to create HTML and JavaScript files.

Grade: Your grade in the course will be based on the following distribution:

240 points: 8 Labs (30 points for each)

240 points: 8 Lecture Assignments (30 points for each)

200 points: 2 Projects (100 points for each)

100 points: Final Exam

Total: 780 points

Attention:

Each Assignment, Lab and Project has a due day. No late assignments will be accepted. Failure to turn in an assignment will result in a loss of all the points allocated for the assignment.

Grade Scale:

Above 93% A
90-92% A-
87-89% B+
83-86% B
80-82% B-
77-79% C+
73-76% C

70-71% C-
67-69% D+

63-66% D
50- 62% D-
<59 F

Your professor reserves the right to adjust the number of assignments, points, distribution, or grading scale. If such a change is made, an announcement will be made in class to reflect the update.

COURSE POLICIES:

1. **Look at and follow the proposed schedule** (provided in Canvas) to ensure a timely completion of the course.

2. You are expected to **read chapters** from the book as per the schedule. Use the corresponding presentation notes as an outline while reading these chapters.

3. You are expected to **complete the assignments and projects** found under the Assignments and Projects sections in Canvas as per the schedule.

4. You are expected to **complete a final exam** as per the schedule.

5. **The best way to learn is by doing. Do your own work!** You will get better grades on the exams by doing so. **Cheating (see the BSU Student Academic Ethics Policy for specific details) will not be tolerated.** Although discussion on any topic is encouraged, exchange of assignments or answers

by written, verbal, or electronic means is strictly prohibited! It is also considered academic dishonesty to either read or copy someone else's work or to provide a copy of your work to anyone else. Cheating will result in lowering your final grade in this course, possibly to an F. NO EXCEPTIONS! The professor is adamant that cheating in any form is a serious matter and any incident of cheating will be reported to the appropriate university administrators.

6. **Email sent to the professor must be sent from your BSU account;** this is the only way for the professor to verify your identity. Emails from other accounts may be ignored. Please make sure that your mailbox does not overflow, or you may miss emails from the professor.

7. **Any request to change an individual grade must be made within two weeks** from the time the grade is posted on the Canvas course site. Thereafter, the grade is final.

8. **Constructive comments are always welcome.** If you have an idea you feel will make this course more worthwhile for yourself and/or others, please let the professor know.

Attendance and Participation Policy

- This course is designed with weekly activities, discussion, and other activities designed to build a scaffold and improve your understanding over time. The best way to learn the course material is to write frequent small programs, so be sure to keep up with the assignment schedule as much as possible.
- Be sure to log into Canvas frequently. Continuous participation throughout the week is much better for learning than trying to "cram" the whole week's assignments in one sitting. Please try to spread out your work over a few days, to give your brain time to digest what it has learned.

University and Course Policies

We are committed to ensuring that all members of the community are welcome, through valuing the various experiences and worldviews represented at Ball State and among those we serve. We promote a culture of respect and civil discourse. If you need course adaptations or accommodations because of a disability, please contact the instructor of record as soon as possible. Ball State's Disability Services 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. Disability Services can be contacted at 765-285-5293 or dsd@bsu.edu.

Freedom of Expression

In this course, we are committed to fostering a learning environment that values intellectual diversity, encourages free expression, and promotes open inquiry. As members of the Ball State Community, we treat each person in the Ball State community with civility, courtesy, compassion, and dignity and respect and learn from differences in people, ideas, and opinions. Please review Ball State University's Statement on Freedom of Expression, the resources on Ball State's Freedom of Expression webpage, and Ball State's Beneficence Pledge.

Ball State Academic Ethics Policy

Honesty, trust, and personal responsibility are fundamental attributes of the university community. Academic dishonesty and other forms of academic misconduct threaten the foundation of an

institution dedicated to the pursuit of knowledge and will not be tolerated. To maintain its credibility and reputation, and to equitably assign evaluations of scholastic and creative performance, Ball State University is committed to maintaining a climate that upholds and values the highest standards of academic integrity. Visit the VPAA's academic integrity website (Students tab) for resources on understanding academic integrity, citing sources properly, and avoiding inadvertent academic dishonesty. To learn about BSU's academic integrity expectations and students' rights, please read the University Student Academic Ethics Policy.

Course Academic Ethics and Plagiarism Policy

When completing assignments for this class, the intent is that you are learning how to program, and need to practice in order to improve. All resources that you need to complete the solutions are covered in the course, and assignments are scaffolded to help you build your understanding. When you use online solutions, AI assistants, or others to complete your work for you, you are doing yourself a disservice and not really learning the material. Using these resources is considered academic dishonesty and plagiarism. For this course, the use of online solutions and AI assistants such as Gemini or ChatGPT are prohibited. Use of such resources violates the course Academic Ethics policy and may result in failing the course.

You are probably familiar with how plagiarism applies to written work, such as essays. For a programming class, plagiarism is similar – your "essay" is your code. There are many different ways to successfully solve each programming problem, and so code that is independently written is usually different than other work submitted by your classmates. You can discuss with each other in general terms how to approach solving a problem, but should never share specific code, either verbally or in written form. Unless otherwise indicated for all assignments, you must work independently by yourself. Never email or directly share your code with other students, post it online, or otherwise disseminate solutions to assignments.

Potential Violations

Examples of academic integrity violations include but are not limited to:

- Working with another person on any assignment.
- Sharing or allowing others to access your files, whether done with permission or not.
- Use or possession of a file created by someone else.
- Reusing work from another semester, course, or section.
- Soliciting others to complete work for you, both human and AI assistants such as ChatGPT, Gemini, or other LLM-based tool.

Course Schedule

The most current version of the schedule will always be available on Canvas. I encourage you to check Canvas regularly for updates and contact me if you have any questions.

Subject to Change Statement

This syllabus and schedule are subject to change in the event of extenuating circumstances.