CSCI-341 Computer Architecture
Course Syllabus
Fall 2025

Course Description

Introduction to computer systems and their organization. Topics include CPU design and construction using logic gates, data representation, and assembly language representation of common programming language constructs including conditionals, loops and functions. The GCC compiler and the C programming language will be used to illustrate these topics.

Instructor

Eric McGregor, Ph.D.
Office: McKinney Center, Room 243

Email: rmcgregor@bridgewater.edu
Phone: 540.828.5754

Office Hours: Posted outside my office.

Lectures

Lectures are held on MWF, 10:00 a.m. - 10:50 a.m. in McKinney 223

Course Materials

But How Do It Know? The Basic Principles of Computers for Everyone (Required on the first day of class)
Scott, J. Clark
Paperback
9780615303765

Computer Systems: A Programmer's Perspective (Required by 3rd week of class)
Bryant, Randal E., O' Hallaron, David R.
Softcover (3 Edition)
978-9332573901

The C++ Programming Language (Optional)
(Chapters 6-12)
Stroustrup, Bjarne
Paperback (4 Edition)
9780321563842

Course Website: https://artfulmonkeys.xyz/work/teaching/courses/csci341/2025fall.

Grading

During this course you will be evaluated on pop-quizzes, 3 exams given during lecture, and a comprehensive final exam given on Wednesday, December 10 @ 10:00 a.m.

The tentative schedule for the 3 mid-semester exams is:
- Exam 1 - Monday, September 15
- Exam 2 - Wednesday, October 15
- Exam 3 - Monday, November 10

Final numeric grades are based on the following percentages:

	Percentage of Final Grade
Quizzes	20
Exam 1	20
Exam 2	20
Exam 3	20
Final Exam	20

Course and Classroom Policies

Course and Classroom Policies for Fall 2025 can be found at https://artfulmonkeys.xyz/work/teaching/syllabi.

This syllabus may be adjusted throughout the course at the discretion of the instructor.