Day/Time: TR 1:50pm–3:05pm
Prerequisites: CPSC 122

Instructor: Shawn Bowers, bowers@gonzaga.edu, Herak 309C, (509) 313-5712
Office Hours: 11am–1pm TR, 1pm–2pm W, or by appointment.

Course Webpage: http://www.cs.gonzaga.edu/bowers/courses/cpsc260


Course Materials: Lecture notes, reading assignments, homework, announcements, and general class information will be made available on the course webpage. Blackboard will also be used for posting grades and Piazza will be used for class discussions.

Course Description: Basic topics in the design of modern computer systems including digital logic, computer system components, machine-level code, memory organization and management, computer arithmetic, assembly-language programming, and basic connections between high-level and low-level languages (C and assembly). This course also serves as a foundation for courses on networking, security, operating systems, and computer architecture, where a deeper understanding of systems-level issues is required.

Grading:

- 40% – Homework Assignments
- 10% – Quizzes
- 30% – Three mid-semester exams
- 20% – Final exam

Please note that to pass the class you must average 60% or higher on homework assignments, 60% or higher on quizzes, 60% or higher on the mid-semester exams, and 60% or higher on the final. For example, if you average over 60% on homework assignments, but less than 60% on mid-semester exams, you will not receive a passing class grade.


Course Policies:

Student Expectations: As a student, you are responsible for understanding and learning the material associated with this course. If you do not understand topics discussed in class, material presented in reading assignments, or instructions on tests or assignments, it is your responsibility to ask for help from the instructor. You can get help from the instructor during office hours, outside of office hours by appointment, via email, or using the Piazza system set up for the course. Note that you should start your assignments early to leave yourself enough time to both ask for help or clarification if needed and to complete the actual assignment once your questions are answered.

Assignments: All assignments (including project deliverables) must be turned in during the scheduled class period of the given due date. No late assignments will be accepted unless otherwise noted by the instructor.
If you expect to miss class when an assignment is due, turn your assignment in prior to the due date.

**Exams and Quizzes:** Makeup exams will only be given in cases of medical, personal, work-related, or other emergencies. If an emergency arises and you are going to miss an exam, contact me as soon as possible (prior to the exam) to arrange an alternative exam time. On most weeks there will be at least one (short) quiz, and each quiz is equally weighted. If you miss a quiz for any reason, you will receive 0 points for that quiz. **NO MAKEUP QUIZZES WILL BE GIVEN.**

**Attendance:** It is important that you attend class. The Gonzaga University Catalog states that exceeding two weeks of missed classed constitutes a grade of V. If an *extraordinary* situation (medical, personal, work-related, or other *emergency*) prevents you from working for an extended period of time, contact me as soon as possible to discuss your situation and to arrange a special schedule (if appropriate). Otherwise, your absence will be treated as unexcused.

**Academic Honesty:** You are expected to follow the University’s policy on academic honesty. Please see the policy on the University’s webpage for more information, including procedures for violations. If you are unclear about the policy or how it applies to this class please ask the instructor.

**Use of Electronic Devices in Class:** Unless otherwise noted by the instructor, electronic devices are NOT ALLOWED in class. If you require using an electronic device in class for note taking, please see the instructor for accommodations.

**Office Hours:** You are strongly encouraged to take advantage of office hours or make an appointment to meet with me if you have questions about the course material. I am more than happy to help you, and office hours are a great way to ask questions and get one-on-one help with the material.

**ABET Specific Outcomes of Instruction:**
1. Demonstrate the use and properties of numeric representations in the context of computer arithmetic
2. Understand how basic logic elements can be combined to execute a simple subset of an x86-64 instruction set
3. Write basic programs in assembly language
4. Understand the interplay between a high-level language (e.g., C) and the corresponding machine/assembly code used to execute programs in the language

**University Policies and Accommodations:** For general information and policies related to courses at Gonzaga please see the Office of the Registrar’s website¹. Additionally, the Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability/medical condition requiring an accommodation, please call (509) 313-4134 or visit the Disability Access office (Room 208 in Foley Library).

¹[https://www.gonzaga.edu/academics/academic-calendar-resources/registrars-office](https://www.gonzaga.edu/academics/academic-calendar-resources/registrars-office)