CPSC 326: Organization of Programming Languages
SYLLABUS — Spring 2017

Time and Location:
- Section 1: TR 12:25pm–1:40pm, PACCAR 105
- Section 2: TR 1:50pm–3:05pm, PACCAR 105

Prerequisites: CPSC 223

Instructor: Shawn Bowers
Email: bowers@gonzaga.edu, Office: Herak 309C, Phone: (509) 313-5712

Office Hours: 11:20am–12:20pm Tuesdays and Thursdays, 1:00pm–3:00pm Wednesdays, or by appointment.

Course Webpage: http://www.cs.gonzaga.edu/~bowers/courses/cpsc326

Required Textbook:


Course Materials: Lecture notes, reading assignments, homework, announcements, and general class information will be made available on the course webpage. The blackboard system may also be used (http://learn.gonzaga.edu) for posting grades. Be sure to check the course webpage often for updates.

Course Description: This course is an introduction to concepts in programming languages. The course covers a range of programming paradigms including procedural, functional, and logic-based languages. We will examine and use different languages as well as survey topics in language design and implementation. The course provides hands-on experience using different languages through programming assignments and projects.

Grading:
- 30% – Homework Assignments
- 10% – Project
- 15% – Quizzes
- 45% – Three mid-semester exams

Opportunities may also be provided for extra credit. Letter grades will be assigned based on the standard percentage scales (A: 93–100%, A-: 90–92%, B+: 87–89%, B: 83–86%, B-: 80–82%, C+: 77–79%, C: 73–76%, C-: 70–72%, D+: 67–69%, D: 60–66%, F: 0–59%).

Course Policies:
Assignments. All assignments (reading homework, programming homework, and projects) must be turned in during the scheduled class period of the given due date. NO LATE ASSIGNMENTS WILL BE ACCEPTED. 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. Quizzes are worth 10 points each, and quizzes are worth 10% of your final grade. If you miss a quiz, 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 class 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 policy on academic honesty. Examples of academic dishonesty regarding programming assignments include: turning in the work of another student and representing it as your own work, knowingly permitting another student to turn in your work, copying code from another student or online resource, and deliberately transforming borrowed sections of your code to disguise its origin. Note that you can still have general discussions about assignments, e.g., concerning requirements, debugging approaches, and the general ideas involved in an assignment. When in doubt about the policy, please ask for clarification.

**Use of Electronic Devices in Class:** Please do not make inappropriate use of electronic devices during class times (e.g., laptops, tablets, or phones). These devices should not be used during class to browse the web, text/instant message, check email, etc. Also, please be sure to put your phone in “silent” mode during class.

**Office Hours:** You are strongly encouraged to take advantage of office hours and/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:** Students completing the course will:

1. Understand that there are multiple programming paradigms
2. Understand design tradeoffs among language families
3. Understand design tradeoffs in languages of the same family
4. Be able to use formalisms to describe a programming language
5. Be able to write programs in a functional language
6. Be able to write programs in a logic-based language

**University Statement Regarding Course Expectations:** As a Jesuit university that seeks to provide an equal opportunity to learn for all students, this course is offered with the expectation that students are here voluntarily, and understand that the university expects all interactions relating to its courses to occur in the context of a professional academic work environment that is welcoming and accessible to all students regardless of gender, race, ethnicity, religion, disability, sexual orientation or identity and any other non-merit factor in educational programs or activities. This environment includes virtual course environments, such as Blackboard, and any course-related communications via e-mail and social media. We strive to create a healthy environment.
conducive to intellectual honesty and free inquiry; as such, behaviors which constitute harassment, discrimination, or hostile and/or inappropriate conduct will not be tolerated, and faculty, staff and administrators will take action to ensure such matters are addressed promptly and appropriately. For inquiries or concerns about non-discrimination or the complaint process at Gonzaga, contact the Office of Equity and Inclusion, Business Services Center, 102 E. Boone Avenue.

University Note on Harassment, Discrimination and Sexual Misconduct: Consistent with its mission, Gonzaga seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX and Gonzaga's policy prohibit gender-based harassment, discrimination and sexual misconduct. Gonzaga encourages anyone experiencing gender-based harassment, discrimination or sexual misconduct to talk to someone from the Campus and Local Resources list found in the Gonzaga's Harassment and Non-Discrimination Policy. It may be helpful to talk about what happened in order to get the support needed and for Gonzaga to respond appropriately. There are options for support and resolution, namely confidential support resources, and campus reporting and support options available. Gonzaga will respond to all reports of sexual misconduct in order to stop the harassment or misconduct, prevent its reoccurrence and address its effects. Responses may vary from support service referrals to formal investigations. As a faculty member, I want to get you connected to the resources here on campus that can help you in this situation and therefore will report all incidents of sexual misconduct and thus cannot guarantee confidentiality. I will provide our Title IX coordinator with relevant details such as the names of those involved in the incident, and Title IX will reach out to you to explore options for support, safety measures and reporting. For inquiries or concerns about gender-based harassment, discrimination or sexual misconduct or the complaint process at Gonzaga, contact the Title IX Coordinator, Business Services Center, 102 E. Boone Avenue.

University Notice to Students with Disabilities/Medical Conditions: 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 or visit the Disability Access Office.