Computer Science 312
Principles of Programming Languages
Fall 2023
Syllabus

Instructor

Dr. Timothy A. Davis
McGlothlin-Street 133
Office hours: MW 5:00–6:00, Th 1:00-2:00
tadavis@wm.edu

TAs: MD Haque (Alvi) **mhaque@wm.edu**   F 10:00-11:30   MS 139 (Section 1)
       MH Sun (Sun)   **msun12@wm.edu**   T 1:40-3:10   MS 002 (Section 2)

Course Webpage

http://www.cs.wm.edu/~tadavis/cs312

Class Meetings

Section 1: MW 2:00–3:20 Boswell 201
Section 2: MW 3:30–4:50 Boswell 201

Course Description

A study of programming language principles and paradigms. Formal syntax, including grammars, and semantics. Paradigms, including: imperative, object-oriented, functional, logic, event-driven, and concurrent, with an emphasis on C and C++. Run-time implementation issues, including: memory management, parameter passing, and event handling.

Textbooks

Michael L. Scott, *Programming Language Pragmatics (Fourth Edition)*, Morgan Kaufmann, 2015. [recommended]

Prerequisites

CS 241 – Data Structures
CS 243 – Discrete Structures

Grading

Final grades will be based on attendance, professionalism, assignments, a midterm test, and a final exam with appropriate weights based on difficulty. Letter grades will be based on a 10-point scale with +/- designations awarded accordingly. All grades will be posted on Blackboard

Attendance/Professionalism	5%			
Assignments	45%			
Midterm	20%			
Final Exam	30%	Section 1: Friday	Dec 15	2:00–5:00
		Section 2: Wednesday	Dec 13	9:00–12:00

Last day to drop: Monday, September 11, 2023
Last day to withdraw: Monday, October 30, 2023

Course Policies

To be successful in this course, you must follow several guidelines, listed below.

- **Attendance** Attendance is required and will be taken on select class days. You are granted two grace days; additional missed days will result in lost points. The student is responsible for acquiring class notes for any missed lectures.

- **Class Cancellation** Students are expected to wait for 15 minutes after the scheduled class starting time before leaving if the instructor is late.

- **Professionalism** All student electronic devices, including laptops, cell phones, tablets, etc., should be turned off during class; otherwise, points will be deducted. Additionally, any sort of audio/video recording is forbidden, unless prior permission has been obtained from me.

- **Assignments** Written assignments should be typeset using LaTex or a word processor, with multiple pages and problems/pages in proper order. All work must be shown; otherwise, points may be deducted. Further, problems must be completed according to methods covered in class; alternate methods that produce the same or different results will be counted as incorrect. Points may be deducted even if your answer is correct if your solution is more complicated than it needs to be, difficult to read or understand, not expressed in correct technical English, or incomplete.

- **Projects** All projects must be submitted through Blackboard or GradeScope and must run on the linux computers available in the CS lab. Of course, any project can be completed on your home computer or laptop, but failure to ensure that it compiles and runs on the department machines may result in significant point deductions.

- **Independent Work** You must work on written assignments and projects independently, unless explicitly stated otherwise. Cheating of any kind will not be tolerated and will result in significant penalties and/or academic integrity charges. Cheating involves any viewing, copying, or discussion of problems or code from the internet, including consultation with AI, or other individuals, whether enrolled in this course or not. Please seek help from me or the TAs only.

- **Deadlines** Deadlines will be enforced, with late work accepted only under extreme circumstances. Submissions will not be accepted after three days past the due date. Additionally, no emailed assignments or projects will be accepted.

- **Grade Disputes** Scores for graded work will be posted in Blackboard. Any questions or disputes concerning assignments, exams, or programs, must be resolved, no sooner than 24 hours after the assignment has been returned and no later than one week after the date the graded work is posted/ returned; otherwise, all grades are final. Please note that the entire homework, project, or exam, not just the part in question, is subject to regrading.

University Policy

Accommodation William & Mary accommodates students with disabilities in accordance with federal laws and university policy. Any student who feels s/he may need an accommodation based on the impact of a learning, psychiatric, physical, or chronic health diagnosis should contact Student Accessibility Services staff at 757-221-2512 or at **sas@wm.edu** to determine if accommodations are warranted and to obtain an official letter of accommodation. For more information, please see **www.wm.edu/sas**.