San José State University
Department of Computer Science
CS 49C, Programming in C, Section 1, Spring, 2018

Course and Contact Information

Instructor: Prakash Atawale

Office Location: DH 282

Telephone:

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Office Hours: Wednesdays: 7:30 pm- 8:45 pm

Class Days/Time: Mondays and Wednesdays 6.00pm to 7.15pm

Classroom: Science Building 311

Prerequisites: Previous programming experience and completion of math GE

Course Description:

Beginning course in the C language. Prerequisite: Previous programming experience and completion of math GE.

Course Learning Outcomes:

1. CLO 1 Have a basic knowledge of C programming language.
2. CLO 2 Understand the concepts of data structures, functions and control structures.
3. CLO 3 Understand the concept of arrays, pointers and memory management.
4. CLO 4 Write programs using pointers, arrays and structures.
5. CLO 5 Read and access sequential and random access files.

Course Resources:

Textbook:

C Primer Plus (Developer's Library) 6th Edition, Stephen Prata
ISBN-13: 978-0321928429 ISBN-10: 0321928423

Online:

We will be using **Canvas** for everything. Course materials such as slides, notes, homework etc. will be posted to Canvas. This is also the preferred way to communicate.

Computer and software:

Wireless laptop with fully charged battery. Fully functioning C compiler and an IDE with debugging capabilities is required.

Other Readings

- The C programming language, Kernighan and Ritchie

Course Requirements and Assignments

This course requires you to complete tests, coding projects, weekly homework assignments, classroom assignments, quizzes and a final examination.

Grading Policy

1. Midterm test, 100 points
2. Homework: 100 points
3. Quizzes, class participation, coding projects: 100 points.
4. Comprehensive Final Exam: 100 points.
5. Semester grade will be computed based on the percentage of the points earned.
6. ***No*** make-up tests or quizzes will be given and ***no*** late homework (or other work) will be accepted.
7. Nominal Grading Scale:

Percentage	Grade
92 and above	A
90 - 91	A-
88 - 89	B+
82 - 87	B
80 - 81	B-
78 - 79	C+
72 - 77	C
70 - 71	C-
68 - 69	D+
62 - 67	D
60 - 61	D-
59 and below	F

- **Homework:** Homework is due *typewritten* (include source code, but not executable files) by class starting time on the due date. Each assigned problem requires a solution and an explanation (or work) detailing how you arrived at your solution. Cite any outside sources used to solve a problem. When grading an assignment, I may ask for additional information. Exact mechanism for submitting digital content will be communicated at the time homework is assigned.

Classroom Protocol

I expect every student to be exemplary. Learn, and let others learn. Constructive participation and discussions are encouraged.

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' Syllabus Information web page at http://www.sjsu.edu/gup/syllabusinfo/

CS 49C / Programming in C, Section 1, Spring 2018, Course Schedule

Schedule is subject to change with fair notice. Notice will be made available in class and via Canvas.

Course Schedule

Week	Topics, Readings, Assignments, Deadlines
1 – 1/24	Introduction to computers
2 – 1/29, 1/31	Introduction to C programming
3 – 2/5, 2/7	Data and C
4 – 2/12, 14	Strings, formatted Input/output
5 – 2/19, 2/21	Operators, expressions, Statements
6 – 2/26, 2/28	Control statements
7 – 3/5, 3/7	Character I/O
8 – 3/12, 3/14	Structured programming
9 – 3/19, 3/21	Review, midterm
10 - Break	Spring Break
11 - 4/2, 4/4	Functions, Arrays and pointers
12 – 4/9, 4/11	String functions, linkage, memory management
13 – 4/16, 4/18	File input/output
14 – 4/23, 4/25	Structure and data types
15 – 4/30, 5/2	Bit fiddling, preprocessor and C library
16 – 5/7, 5/9	Advanced data representation
17 – 5/14	Review
5/16 Finals	5:15pm - 7:30pm. Science Building 311. The official finals schedule is here: http://info.sjsu.edu/static/policies/final-exam-schedule-spring.html