

San José State University
Computer Science Department
CS049C, Programming in C, Section 1, Fall 2017

Course and Contact Information

Instructor:	Dr. Faramarz Mortezaie
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Office Hours:	M 9:00 AM - 9:50 AM or by appointment
Class Days/Time:	MW 7:30 AM - 8:45 AM
Classroom:	MH 422

Catalog Description

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

Course Description

The course consists of an introduction to C programming. We will cover data types, arithmetic expressions, loops, conditions, arrays & structures, functions, strings, pointers, bitwise operations, file I/O processing, dynamic memory usage, and debugging.

Upon successful completion of this course, students will be able to:

1. SLO 1 Understand C programming syntax.
2. SLO 2 Achieve competence in C programming language
3. SLO 3 Write programs using arrays, pointers, structures in C programming language
4. SLO 4 Write programs for different data structures in C

Course Learning Outcomes (CLO)

1. CLO 1 Have a basic knowledge of C programming language.
2. CLO 2 Understand the concepts of functions, procedures and macros.
3. CLO 3 Understand the concept of pointers.
4. CLO 4 Write programs using pointers, arrays and structures.

5. CLO 5 Read and access sequential and random access files.
6. CLO 6 Write recursive programs in C
7. CLO 7 Write programs for different data structures in C

Required Texts/Readings

Textbook

Textbook: Title: C How to Program, 8th edition

Author: Deitel and Deitel Publisher: Pearson ISBN: 13-978-0-397689-2

Course Requirements and Assignments

Lectures: Students are strongly encouraged to attend all lectures. Any material presented in any lecture may be tested in any subsequent exam or final exam.

Homework: There will be 10 substantial programming assignments. There will be 30% penalty for submitting late homework. No late homework will be accepted after a week of the due date for any reason.

Exams: Exams are in-class, closed-book, and comprehensive. Makeup exams will only be given in cases of verifiable emergency.

Final Exam: Thursday Dec 14: 7:15 AM – 9:30 AM. Makeup final exams will be only given in cases of verifiable emergencies.

Grading

Homework and class work	20%
Exam-1	20%
Exam-2	20%
Team Project and written report	15%
Comprehensive Final Exam	25%

Course Grading Standards

I first try scores of 90, 80, and 70 to cut off letter grades of A-, B-, and C-, respectively. If overall class performance is too low to use these cut offs, I set a cut off of C- to a lower score than the class total average but a higher score than 60 (this number may change), and divide the students' group above the cut off of C- into A+, A, A-, B+, B, B-, C+, C, C-. The rest of students will be given by a grade of D+, D, D-, F or WU depending on their class performance.

Note that “All students have the right, within a reasonable time, to know their academic scores, to review their grade-dependent work, and to be provided with explanations for the determination of their course grades.” See [University Policy F13-1](http://www.sjsu.edu/senate/docs/F13-1.pdf) at <http://www.sjsu.edu/senate/docs/F13-1.pdf> for more details.

Classroom Protocol

Students are expected to participate all the lectures. Please turn off your cell phones during the lecture time.

University Policies

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/>

CS049C / Programming Language Paradigm, Spring 2017, Course Schedule

The schedule is subject to change with fair notice announced in class.

Week	Related SLO	Date	Topics	Reading Assignments and homework	Due Date
1		08/23/17	Introduction to computers	Chapter-1	
2	SLO-1	08/28/17 08/30/17	Introduction to C programming	Chapter-2 Homework-1	09/06
3	SLO-3	09/04/17 09/06/17	No Class Structured Programming in C	Chapter-3 Homework-2	09/11
4	SLO-1	09/11/17 09/13/17	Structured Programming in C C programming Control	Chapter-3 Chapter-4 Homework-3	09/18
5		09/18/17 09/20/17	C Programming Control C Functions	Chapter-4 and 5 Homework-4	10/02
6		09/25/17 09/27/17	Review Exam-1	Chapter-1 to 5	
7	SLO-3	10/02/17 10/04/17	Arrays Arrays	Chapter-6 Homework-5	10/09
8	SLO-3	10/09/17 10/11/17	Pointers Pointers	Chapter-7 Chapter-7 Homework-6	10/16
9		10/16/17 10/18/17	Strings Strings	Chapter-8 Homework-7	10/23
10		10/23/17 10/25/17	Structures	Chapter-10 Homework-8	10/30
11	SLO-4 SLO-4	10/30/17 11/01/17	Review Exam-2	Chapter-9 Homework-8	11/06
12		11/06/17 11/08/17	Structures Structures	Chapter 10 Homework-9	11/13
13	SLO-2	11/13/17 11/15/17	Dynamic memory Allocation	Chapters 12 Homework-10	11/20
14		11/20/17 11/22/17	Files No Class	Chapter-11 Homework-10	12/04
15	SLO-2	11/27/17 11/29/17	Files Files	Chapter-11 Project Formal Report	
16		12/04/17 12/06/17	Review Project Presentation		
17		12/11/17 12/13/17 12/14/17	Project Presentation No Class Final Exam	 Thursday Dec-14 7:15 – 9:30 AM	