

**San José State University**  
**School/Department**  
**CS049C, Programming Language Paradigms, Section 1, Fall 2016**

**Course and Contact Information**

<b>Instructor:</b>	Dr. Faramarz Mortezaie
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<b>Office Hours:</b>	M 12:30-1:50PM or by appointment
<b>Class Days/Time:</b>	MW 7:30-8:45AM
<b>Classroom:</b>	MH422

**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) (Required)**

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 7 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: Two closed book exam will be on Oct 3 and Nov 2. Exams are in-class, closed-book, and comprehensive. Makeup midterm exams will only be given in cases of verifiable emergency.*

*Final Exam: Monday Dec 19: 12:15 PM – 2:30 PM. Makeup final exams will be only be given in cases of verifiable emergencies.*

## Grading

Homework	20% (equally weighted)
Exam-1	25%
Exam-2	25%
Team Project	15%
Comprehensive Final Exam	15%

## 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, Fall 16, 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		08/24/16	Introduction to computers	Chapter-1	
2	SLO-1	08/29/16 08/31/16	Introduction to C programming	Chapter-2 Homework-1	9/07
3	SLO-3	09/05/16 09/07/16	<b>No class</b> Structured Programming in C	Chapter-3 Homework2	9/14
4	SLO-1	09/12/16 09/14/16	Structured Programming in C C programming Control	Chapter-3 Chapter-4 Homework3	9/19
5		09/19/16 09/21/16	C Programming Control C Functions	Chapter-4 and 5 Homework-4	9/26
6		09/26/16 09/28/16	Review Exam-1	Chapter-1 to 5	
7	SLO-3	10/03/16 10/05/16	Arrays Arrays	Chapter-6 Homework-5	10/10
8	SLO-3	10/10/16 10/12/16	Pointers Pointers	Chapter-7 Chapter-7 Homework6	10/17

9		10/17/16 10/19/16	Strings Strings	Chapter-8	10/24
10	SLO-4 SLO-4	10/24/16 10/26/16	Structures Structures	Chapter-10 Homework7	10/31
11		10/31/16 11/02/16	Structures Structures	Chapter-10 Homework8 Chapters 6 to 10	11/07
12		11/07/16 11/09/16	Review Exam2	Chapters 6 to 10 Chapter-9	11/14
13	SLO-2	11/14/16 11/16/16	Files Files	Chapapter-11 Homework9	11/21
14		11/21/16 11/23/16	Files No Class	Chapter-11 Homework10	11/28
15	SLO-2	11/28/16 11/30/16	Files Examples	Chapter-11	
16		12/05/16 12/07/16	Project Presentation Project Presentation		
17		12/12/16 12/14/16	Review No Class		
18		12/20/16	Final Exam 7:15AM-9:30		