San José State University
Computer Science Department
CS49C, Programming in C, Section 1, Fall 2015

Course and Contact Information

Instructor:	Fain (Frank) Butt
Office Location:	MH214
Telephone:	(408) 924-5060
Email:	Frank.Butt@sjsu.edu
Office Hours:	TR 8:45 AM - 9:15 AM, TR 8:45 PM - 10:15 PM
Class Days/Time:	TR 6:00 - 7:15 PM
Classroom:	DH250
Prerequisites:	Previous programming experience in a high level language

Course Format

The grader will be using MS Visual C++ compiler to grade your homework and programming assignment. Therefore I recommend that you use the same compiler to do your work. Or at least make sure it compile and runs with MS compiler before handing them in. You are expected to spend 10-15 hours a week on homework or programming assignment.

Faculty Web Page and MYSJSU Messaging

Course syllabus can be located from my home page at -> http://www.cs.sjsu.edu/~fbutt/ The rest of the course information will be published via Canvas. You are responsible for regularly checking with the messaging system through MySJSU and Canvas to learn of any updates.

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.

Learning Outcomes

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

1. SLO 1 – Understand the syntax and language elements for the C programming language

2. SLO 2 – write various C programs that exercise the different C language elements

Course Learning Outcomes (CLO)

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

1. CLO 1 – implement simple game logic using arrays and structures
2. CLO 2 - implement linked-lists and binary trees using pointers

Required Texts/Readings

Textbook

Programming in C, Kochan, 4th Ed, Addison Wesley (ISBN 0-321-77641-0)

Other Readings [Optional]

The C Programming Language, Kernighan & Ritchie, 2nd Ed, PH (ISBN 0-13-110362-8)

Other equipment / material requirements (include if applicable)

None

Course Requirements and Assignments

SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. More details about student workload can be found in University Policy S12-3 at http://www.sjsu.edu/senate/docs/S12-3.pdf.

There will be one exam, several programming assignments, several homework and quizzes. All the exams and quizzes will be open book and open notes. There will be no laptops, or any personal digital devices allowed. I strongly suggest that you attend each class and take good notes during the semester. There will be **_NO_** make-up exams and quizzes.

All the homework, programming assignments, and related documentations must be handed in electronically. Programs that are handed in after the due date will not be accepted. Additional information about each project will be given in separate handouts. For your programming assignments, I will compile and grade your programs using Microsoft Visual Studio .NET C++ compiler on Windows. Your program needs to be able to compile and execute before you turned it in.

NOTE that University policy F69-24 at http://www.sjsu.edu/senate/docs/F69-24.pdf states that "Students should attend all meetings of their classes, not only because they are responsible for material discussed therein, but because active participation is frequently essential to insure maximum benefit for all members of the class. Attendance per se shall not be used as a criterion for grading."

Grading Policy

Final Exam   400 points   40%

Programs	400 points	40%
HW & Quizzes	200 points	20%
Total	1000 points	100%

The final "letter" grade will be determined from a curve at the end of the semester.

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 at http://www.sjsu.edu/senate/docs/F13-1.pdf for more details.

Classroom Protocol

There will be no lecture notes given out. Therefore it is to your best interests to attend class and take good notes. You must turn off any cell phone ringer at the beginning of each class!

University Policies

General Expectations, Rights and Responsibilities of the Student

As members of the academic community, students accept both the rights and responsibilities incumbent upon all members of the institution. Students are encouraged to familiarize themselves with SJSU's policies and practices pertaining to the procedures to follow if and when questions or concerns about a class arises. See University Policy S90–5 at http://www.sjsu.edu/senate/docs/S90-5.pdf. More detailed information on a variety of related topics is available in the SJSU catalog, at http://info.sjsu.edu/web-dbgen/narr/catalog/rec-12234.12506.html. In general, it is recommended that students begin by seeking clarification or discussing concerns with their instructor. If such conversation is not possible, or if it does not serve to address the issue, it is recommended that the student contact the Department Chair as a next step.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester's Catalog Policies section at http://info.sjsu.edu/static/catalog/policies.html. Add/drop deadlines can be found on the current academic year calendars document on the Academic Calendars webpage at http://www.sjsu.edu/provost/services/academic_calendars/. The Late Drop Policy is available at http://www.sjsu.edu/aars/policies/latedrops/policy/. Students should be aware of the current deadlines and penalties for dropping classes. Information about the latest changes and news is available at the Advising Hub at http://www.sjsu.edu/advising/.

Consent for Recording of Class and Public Sharing of Instructor Material

University Policy S12-7, http://www.sjsu.edu/senate/docs/S12-7.pdf, requires students to obtain instructor's permission to record the course and the following items to be included in the syllabus:
- "Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor's permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material."
  - It is suggested that the greensheet include the instructor's process for granting permission, whether in writing or orally and whether for the whole semester or on a class by class basis.
  - In classes where active participation of students or guests may be on the recording, permission of those students or guests should be obtained as well.

- "Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent."

Academic integrity

Your commitment, as a student, to learning is evidenced by your enrollment at San Jose State University. The University Academic Integrity Policy S07-2 at http://www.sjsu.edu/senate/docs/S07-2.pdf requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at http://www.sjsu.edu/studentconduct/.

Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 at http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) at http://www.sjsu.edu/aec to establish a record of their disability.

CS49C, Programming in C, Section 1, Fall 2015, Course Schedule (subject to change)

Event	Date	Time	Topics, Readings, Assignments, Deadlines
First Day	8/20/2015		Introduction and Overview
Week 1	8/25/2015		Chapter 1, 2
Week 2	9/1/2015		Chapter 3, 4
Week 3	9/8/2915		Chapter 5, 6
Week 4	9/15/2015		Chapter 7, 8
Week 5	9/22/2015		Chapter 9, 10
Week 6	9/29/2015		Chapter 10, HW Reviews
Week 7	10/6/2015		Chapter 10
Week 8	10/13/2015		Chapter 11
Week 9	10/20/2015		Chapter 12, Reviews
Quiz/Midterm	10/27/2015	Regular class time	Covers Chapters 1-11
Week 11	11/3/2015		Project Reviews
Week 12	11/10/2015		Chapters 12
Week 13	11/17/2015		Chapters 13
Week 14	11/24/2015		Thanksgiving Week; Program 3 Due
Week 15	12/1/2015		Program 4 Reviews
Week 16	12/8/2015		Review for Final Exam; Program 4 Due
Final Exam	12/15/2015	17:15-19:30	Covers all chapters covered in the textbook