CSCI 1302-005: COMPUTER SCIENCE PRINCIPLES
Summer 2021

Instructor: Dipak Singh  Phone: (936) 468-2508
Email: dipak.singh@sfasu.edu  Office: 312K STEM

Office Hours: M, W 10:00 am - 12:00 pm
T, Th 3:00 pm - 5:00 pm
I will gladly make appointments for other times.
Face-to-face meetings can be accommodated based on prior appointment requests.

Note: You may also join the office hour via the following zoom meeting session link:
https://sfasu.zoom.us/j/94680651425?pwd=NGozc3ZWbjFjK2owNFPNMWrZTBLQT09

Class Info: Credit Hours: 3
Time: T, Th 9:30 am - 10:45 am
Location: STEM 318 and via zoom (see link below)

Note: The class will follow the Hybrid modality. A student can chose to join the class via face-to-face or via zoom livestream. Join Class Zoom Meeting at
https://sfasu.zoom.us/j/99918178368?pwd=bVdUVGY5N1A5WE1UdDRJUWpJWkw5Zz09

Prerequisites: Eligibility for enrollment in college algebra.

Grade Reminder: Must have a grade of C or better in each prerequisite course.

Catalog Description: Fundamental concepts of computer systems, systems software, and an overview of computer science issues. Problem solving and program development using a high-level programming language.

Purpose of Course: To introduce students to the basic concepts of computer systems, to fundamental systems software, to a disciplined approach to problem solving, to procedural program development in a high-level language, to software engineering principles, to ethics in computing, and to computer science careers.

Program Learning Outcomes: Program learning outcomes define the knowledge, skills, and abilities students are expected to demonstrate upon completion of an academic program. These learning outcomes are regularly assessed to determine student learning and to evaluate overall program effectiveness.

Students majoring in the Department of Computer Science may access program learning outcomes at http://www.sfasu.edu/academics/colleges/sciences-math/computer-science/about/accreditations

Student Learning Outcomes: In general, SLOs in a course are specific and include the exact knowledge, skill or behavior taught in the course in support of the more global PLOs. For additional information on meaningful and measurable learning outcomes, see the assessment resource page http://www.sfasu.edu/assessment/index.asp

(Custom Publish - available at local bookstores)
Reference Books: Please refer to the syllabus link in the Course Content section below.
**Course Requirements:** Students are expected to attend classes and ensure they have understood the material being taught. Students are encouraged to ask questions and get their difficulties resolved while in class. There will be regular quizzes(10), homework assignments(5) and examinations(2) to test the student understanding of the material. The grade percentage to these components are specified in the **Grading Policy** below.

**Course Calendar:** This course meets for a minimum of 37.5 lecture contact hours during the semester, including the final exam. Students have significant weekly reading assignments. Students are expected to complete weekly homework/programming assignments, and 2-3 periodic exams in addition to the final exam. Students are expected to prepare for any class assignments or quizzes over the material covered in class or in the reading material. Successful completion of these activities requires at a minimum 6 additional hours of outside of classroom work each week. Please see the schedule on the last page of the syllabus that details the topics to be covered during the semester. The schedule lists the reading assignments that the students are expected to follow.

**Asynchronous Minutes:** The students are required to devote 150 minutes outside the instructional hours, where you will be asked to conduct independent study based on online resources (not covered in the class) related to the course, and the material will be asked in the HW assignment(s), quizzes or exams.

**Grading Policy:**

- Class Participation .................. 5% (bonus)
- Quizzes .................................. 10%
- HW Assignments ....................... 30%
- Examination 1 .......................... 15%
- Examination 2 .......................... 15%
- Final Examination ...................... 30%

**Exam Note:** Examinations are weighted at 60% of the overall course grade. Valid student ID cards must be presented on each examination day. (No ID... No exam...Grade of zero)

There are no exemptions from the final examination and no changes in taking the final examination. Check the final exam time. If the final exam time is a problem, you need to drop this course.

**Assignments:** Class assignments (HW assignments/Projects) will total 30% of the course grade.

**Attendance policy:** Attendance and constructive class participation is expected. There is no specific grade for attendance. But students who have full attendance except for one unexcused absence will qualify for 5% bonus grade. Students traveling for University business/events and those out sick will be excused after they turn in a medical note of absence or University related activity letter from the appropriate authorities.

**Educational Objectives:** Upon successful completion of the course, students should be able to:

1. Demonstrate a fundamental knowledge of computer organization, computer operation, and the information hierarchy (binary numbers and character representations).

2. Apply the software life cycle to specific problems in such disciplines as business, mathematics, science, and engineering.

3. Perform problem analysis and program design using tools such as pseudocode, structure charts, and flowcharts.

4. Apply the features of a modern widely-used programming language in implementing solutions to well described problems. These features include declaration of data types and fundamental data structures, application of control structures (sequence, selection, repetition), utilization of I/O and file handling, development of structured program organization (subprograms with parameters), and inclusion of documentation.
5. Use operating systems tools (command system, editor, compiler, linker and loader) in single-user and/or multi-user environments.

6. Create appropriate test data and apply debugging and testing strategies.

7. Demonstrate a knowledge of fundamental computing terminology.

8. Demonstrate an understanding of the role of computing in society.

**Course Content:** The following topics with estimated hours spend on each is listed below:

- Introduction to computer science (1)
- Basic Concepts of Computer Systems (2)
- Systems Software (5)
- Problem Solving Concepts (9)
- Program Development (20)
- Software Engineering Principles (3)
- Ethics and Careers (2)
- Exams (3)

A more detailed listing of the topics is available at [http://sfasu.edu/docs/computer-science/undergraduate-course-CSCI1302.pdf](http://sfasu.edu/docs/computer-science/undergraduate-course-CSCI1302.pdf)

**Academic Integrity (A-9.1):** Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

**Definition of Academic Dishonesty:** Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one’s own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one’s paper without giving the author due credit.


**Withheld Grades Semester Grades Policy (A-54):** Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average. For additional information, go to [http://www.sfasu.edu/policies/course-grades-5.5.pdf](http://www.sfasu.edu/policies/course-grades-5.5.pdf).

**CLASS INFORMATION AND POLICIES**
Department of Computer Science, STEM 312, 468-2508

**Attendance:** Seating assignments will be made, and roll will be taken regularly. Attendance may be taken into consideration for your final grade. If you come to class, you are expected to be present and awake the entire class period unless you have been given permission to leave early. If you are absent from class, please make sure to get notes from a classmate. There will be no smoking, no chewing of tobacco, no eating or
drinking, no bare feet, and no cell phone use during class. Cell phones and other electronic communication devices must be turned off during class. Possession of a cell phone or other electronic communication device during an exam will result in an examination grade of zero. No disruptive behavior including offensive language will be tolerated in a computer science facility or related activity. Such behavior may result in administrative removal from class. Only students officially registered for the course and approved assistants may attend class. Please do not walk across the front of the room after the class has started. Students entering the classroom after the lecture has started should take a seat in the back of the room.

Examination Policy: All class examinations are considered to be a major part of the course work upon which a large part of the course grade depends. There are NO make-up exams! Class examinations will be announced at least two classes prior to the examination. If you have a conflict with another university event, you must contact me well in advance of the examination. In case of an extreme emergency, contact me before the scheduled examination. Failure to do so may result in an examination grade of zero. There are no exemptions for the final examination and no changes in taking the final examination. All students must take the final exam. A zero on the final exam will result in an F in the course. Check the final examination time. If the final examination time is a problem, you need to drop this course. Once the first person has left the room on the day of an examination, no one else will be permitted to begin the exam.

Assignment Policy: All assignments are due at the announced time on the specified due date. Assignments may be accepted late with penalty. If you have a conflict, please contact me in advance. You should turn in your homework assignments done neatly, clearly, and to the best of your ability. Follow all the instructions given. You will lose points for failure to follow instructions. Any work turned in to my box should be dated and timed by the CSC department staff. Please ask nicely. DO NOT slide any work under my office door or under the door to the Computer Science offices. PLEASE NOTE: You may be given assignments during the last five class days of the semester.

Software Policy: Disciplinary action will be taken against individuals who perform unauthorized duplication of software or who are involved in the unauthorized use of duplicated software. Such action may make it impossible for you to successfully complete this course.

Computer Laboratory Usage: Students utilizing equipment in university computing laboratories are expected to read and abide by all posted policies for the laboratories. Please note that no children and no pets are permitted in university computing laboratories.

Drop Policy (Univ.): The official university add/drop policy is located at: https://www.sfasu.edu/policies/course-add-drop-6.10.pdf
If you have questions concerning registration, add/drop or the withdraw process, contact the Registrar at (936) 468-2501 or E-mail: registrar@sfasu.edu. The Registrar is located on the 2nd floor of the Rusk building.

Student with Disabilities: To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/

Students with special accommodation requests have the responsibility to immediately initiate a meeting with the instructor to discuss how the special accommodations will be provided. Students who are aware of these special needs at the beginning of the semester must inform the instructor in person before the twelfth class day about any class activity, which will require special accommodations.
SFASU values students’ mental health and the role it plays in academic and overall student success. SFA provides a variety of resources to support student’s mental health and wellness. Many of these resources are free, and all of them are confidential.

On-campus Resources:
SFASU Counseling Services
www.sfasu.edu/counselingservices
3rd Floor Rusk Building
936-468-2401

SFASU Human Services Counseling Clinic
www.sfasu.edu/humanservices/139.asp
Human Services Room 202
936-468-1041

Crisis Resources:
Burke 24-hour crisis line 1(800) 392-8343
Suicide Prevention Lifeline 1(800) 273-TALK (8255)
Crisis Text Line: Text HELLO to 741-741

Computer Account Policy: All assignments that require the use of the University Computer must be done under the computer account that is assigned to you in this class. You should NOT do other class assignments in this account, and you should NOT do assignments from this class in other accounts. Failure to abide by the above statements will mean that you will received a grade of F in this course.

Academic Integrity: Additional information: All instances of academic dishonesty will be reported to Office of the Dean of the student’s major. This report shall be made part of the student’s record and shall remain on file with the Dean’s office for at least four years. Instances of academic dishonesty may also be reported to the University Committee on Academic Integrity. A student who wishes to appeal decisions related to academic integrity follows procedures outlined in University policy A-9.1.

If in the instructor’s judgment an instance of academic dishonesty on an examination has occurred, a grade of zero will be assigned as the examination grade and a minimum of one (1) letter grade will be lost in the course grade. Possession of a cell phone or other electronic communication device during an exam will result in an examination grade of zero. A course grade of F may be assigned depending on the situation. A student found cheating on an examination may not drop the course. If a student is judged to be cheating on any part of a homework assignment or quiz, the student will receive negative points equal to the value of the entire homework/quiz. A negative grade will not be replaced by any possible bonus assignment. Both person who did the work (homework, quiz, test) and the person copying the work will be considered as cheating. A recurrence of this by any individual will result in a grade of F in the course. DO YOUR OWN WORK!!!! Do NOT show your code to other students!!!

Acceptable Student Behavior: Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic, or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.
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<th>Week</th>
<th>Dates</th>
<th>Topic</th>
<th>Quiz/Assignment</th>
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<td>1</td>
<td>Tue, Aug 24, 2021</td>
<td>Syllabus, Elementary Programming</td>
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<td>Thur, Sep 02, 2021</td>
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* Please note that all dates are tentative except final exam.