CSIT 1300: Introduction to Problem Solving – Fall 2020

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An important note about my contact information. My name is very often spelled incorrectly. When trying to contact me via email this can mean the difference between me getting the message and your message floating endlessly in hyper space. Please be sure you double check the spelling when sending me messages. My last name, Hutchison, only has one letter n and it is at the end of my name.

Office Hours (Online or in person by appointment only):

- Monday: 3:30 to 4:30 pm
- Tuesday: 9:25 to 10:50 am and 1-4 pm
- Wednesday: 11:40 am to 12:50 pm
- Thursday: 9:25 to 10:50 am
- Friday: By appointment

I am absolutely available outside the office hours listed. These hours are just a starting point. I am often online and I am frequently available outside these hours, including evenings and weekends. I will work with you to communicate in a manner that works best for you. The best way to make initial contact with me is via email. If you prefer to speak on the phone or communicate through a Zoom video chat we can make those arrangements for a time above, or one that best fits your schedule.

Any changes to office hours will be posted on BRIGHTSPACE by D2L in the Course News Announcements.

Class meeting time and place:

CSIT 1301.001 – Hybrid
Meetings online during first and last week of semester
Remaining meetings remote online with an option to meet in person meeting from 11 am - 12:15 pm on either Tuesday or Thursday (day assigned during first week)
Ed and Gwen Cole STEM Building 316

Course Description

Introduction to operating systems and file management. Use of spreadsheets and programming languages for solving problems.

PURPOSE OF COURSE

To provide experience using a computer as a problem solving and productivity tool. To provide practice using an operating system and managing files in a networked environment. To develop competencies in utilizing software to organize, analyze and store data. To provide experience using digital resources to locate information. To explore problem solving through programming.
**Prerequisite:**

Eligibility for enrollment in college algebra.

**Required Materials:**

There is no required book for this course, all material will be presented in class or provided on BRIGHTSPACE by D2L.

**Reliable** access to the Internet and the BRIGHTSPACE BY D2L learning management system (d2l.sfasu.edu). Please note that BRIGHTSPACE by D2L does not support Internet Explorer. The recommended browser is Chrome.

**Required Equipment/software**

- Access to a campus lab computer or a computer (PC or Mac)
- Google Chrome
- If taking exams remotely you must have on your computer (not phone):
  - Web cam
  - Microphone
  - Proctorio Add on for Google Chrome
  - Reliable Internet access

**Course Requirements:**

Students are encouraged to visit the BRIGHTSPACE by D2L website and tutorials at: http://www.sfasu.edu/life-at-sfa/health-safety/health-clinic/coronavirus/students/student-guide-for-brightspace prior to the first day of class.

**Examinations:**

Examinations are worth 750 of the 1,000 total course points. There will be three exams all equally weighted. See class calendar in BRIGHTSPACE by D2L for the dates.

All class examinations are considered to be a major part of the course work upon which a large part of the course grade depends. Class examinations will be announced at the start of the semester. 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 will 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 a student leaves the room on the day of an examination, they will not be permitted to return. Once the first person has left the room on the day of an examination, no one else will be permitted to begin the exam. Possession of a cell phone or other electronic communication device during an exam will result in an examination grade of zero.

Note: 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 switch to another section of this course.
Assignments:

Per SFA policy 5.4, this course requires an amount of student work per credit hour that reasonably approximates at least two hours of out-of-class student work per week for fifteen weeks over a long semester. This course meets for a minimum of 37.5 lecture contact hours during the semester, including the final exam. Students have significant weekly extracurricular assignments which may involve reading, watching videos, or engaging in other forms of preparation. Students will have weekly homework assignments and quizzes, two exams and a final exam. Homework assignments include programming, file management and operating system functions, spreadsheet manipulation and creation, and problem solving activities. Students are expected to prepare for any class assignments or quizzes over the material covered in class or the extracurricular activities. Successful completion of these activities requires at a minimum six additional hours of outside of classroom work each week.

Assignments which programs, quizzes, posts, and participation are worth a total of 250 points of the 1,000 total course points (25% of the course grade) will be given. Periodic in class assignments will be given. Assignments may be of unequal weight. Not all assignments will be graded. Missed work may not be made up. All assignments are due at the announced time on the specified due date. If you have a conflict, please contact me in advance. Please Note: You will be given assignments during the last five class days of the semester.

Course Calendar/Approximate Timeline:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th></th>
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</table>
| 1    | Course introduction  
        Computer history highlights  
        System components  
        Storage and data representation | The need for programming languages |
| 2    | Computers in society (privacy, security, ethics, professions)  
        Data communication principles and equipment  
        Using local and wide area networks | The need for programming languages  
                                                                 | The need for and creativity in algorithms |
| 3    | Accessing digital resources  
        Downloading and using information from the Internet | Using simple commands |
| 4    | Boot process  
        Launching application software  
        Exam 1 | Using simple commands |
| 5    | Utility programs  
        File types, names, directories, and path information  
        File compression/extraction  
        Searching for file | Creating functions |
| 6    | Exam 1 | Creating functions |
| 7    | Designing and organizing a spreadsheet  
        Formatting  
        Generalizing solutions using formulas and functions  
        Generalizing solutions using formulas and functions | Top down design |
| 8    | Cell addressing (relative, absolute, mixed)  
        Problem Solving  
        Data Analysis | APIs |
| 9    | Problem Solving  
        Data Analysis | APIs |
Specific exam dates and assignment due dates will be available on the Calendar tool in the BRIGHTSPACE BY D2L learning management system. Once registered and the semester has started, students can access BRIGHTSPACE by D2L via d2l.sfasu.edu using their mySFA username and password.

Grading Policy:

End of Course Grade: There are a total of 1,000 possible points in the course. End of course letter grades will be based on the number of points earned.

<table>
<thead>
<tr>
<th>Points Earned</th>
<th>Letter Grade</th>
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<tbody>
<tr>
<td>900 - 1,000</td>
<td>A</td>
</tr>
<tr>
<td>800 - 899</td>
<td>B</td>
</tr>
<tr>
<td>700 - 799</td>
<td>C</td>
</tr>
<tr>
<td>600 - 699</td>
<td>D</td>
</tr>
<tr>
<td>Below 600</td>
<td>F</td>
</tr>
<tr>
<td>Missing the final Exam</td>
<td>F</td>
</tr>
</tbody>
</table>

*Note: A grade of QF will be assigned to students that are failing due to non-participation in the course.

Final Exam: There are no exemptions from 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. If the final examination time is a problem, you need to drop this course. Final Exam times for all classes are available on the university web site (sfasu.edu) and for this course on the BRIGHTSPACE BY D2L course calendar.

Participation:
The first week both classes will be conducted synchronously via SFA Zoom. A link will be emailed and also available in our course at d2l.sfasu.edu. There will be no recordings made.

During the first week students will be assigned one day of the week to attend class for the remainder of the semester. Students must properly wear a mask during the entire class period. Students attending in person should be on time to class on their assigned day. After 15 minutes any open seats for the day will be offered to other enrolled students on a first come basis. If you will not be attending class, please let me know in advance so I can offer your seat for the day to another student. There will be no recordings made, the same material will be covered both days.

There will be weekly online material and discussion boards for the day students are not assigned to be in class. The week after Thanksgiving and the final exam will be online.
BRIGHTSPACE BY D2L (Desire2Learn): This course will use the BRIGHTSPACE BY D2L Learning Management System. The course login page may be accessed via your mySFA account or by linking directly to d2l.sfasu.edu. BRIGHTSPACE BY D2L student support can be found at SFAOnline Tech Support

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.

COVID-19 MASK POLICY Masks (cloth face coverings) must be worn over the nose and mouth at all times in this class and appropriate physical distancing must be observed. Students not wearing a mask and/or not observing appropriate physical distancing will be asked to leave the class. All incidents of not wearing a mask and/or not observing appropriate physical distancing will be reported to the Office of Student Rights and Responsibilities. Students who are reported for multiple infractions of not wearing a mask and/or not observing appropriate physical distancing may be subject to disciplinary actions. https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/social-distancing.html

Academic Integrity 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.

Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

If in my judgment an instance of academic dishonesty on an exam has occurred, a grade of zero will be assigned and a minimum of one (1) letter grade will be lost in the course grade. Using work from a previous semester is considered a violation of this policy even if the work is your own. If you are repeating the course, repeat the work. Please note that being in possession of a cell phone or other electronic device during an exam will result in an examination grade of zero. A student found cheating on an examination may not drop the course. If in my judgment a student is found cheating on any part of an assignment, the student will receive negative points equal to the value of the entire assignment. A negative grade will not be replaced by any possible bonus assignment. I consider the person who did the work and the person copying the work as
both cheating. Do your own work. Do not share your work with others. A course grade of F may be assigned depending on the situation.

University Drop Policy: The official university add/drop policy is located at: http://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.

Withheld Grades, Semester Grades Policy (A-S4): 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.

Students 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 info, go to http://www.sfasu.edu/disabilityservices/.

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 iCare Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.

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 receive a grade of F in this course.

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

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

Computer Science Program Accreditations
The Bachelor of Science degree with a major in Computer Science is accredited by the Computing Accreditation Commission (CAC) of ABET, Inc., http://www.abet.org., the recognized accreditor of college and university programs in applied science, computing, engineering and technology. ABET accreditation demonstrates a program's commitment to providing its students with a quality education.

**Computer Science Program Learning Outcomes & Objectives**

The computer science curriculum is designed to allow the future computer specialist to obtain a broad education coupled with detailed knowledge in computer science sufficient to lay a foundation for professional competence in the computing field. Non-specialists may also take computer science courses that will acquaint them with computing capabilities applicable to their main field of endeavor. Students majoring in the Department of Computer Science may access program educational objectives and outcomes at http://www.sfasu.edu/academics/colleges/sciences-math/computer-science/about/accreditations

**Student Learning Outcomes/Educational Objectives:**

Upon successful completion of the CSC 100 course, students should be able to:

1. Demonstrate a knowledge of fundamental computing terminology.
2. Demonstrate basic file management and operating systems skills.
4. Solve problems using a programming language