CSC 102: Computer Science Principles - Spring 2016

Elizabeth Hutchison
Department of Computer Science
College of Sciences and Mathematics
304Q McKibben
ehutchison@sfasu.edu
936-468-2508
Skype: sfa-hutchison (Please be sure to tell me your name and course when you send a contact request.)

An important note about my contact information. My name is very often spelled incorrectly. When trying to contact me via email/skype 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:

Monday: 8:55 – 9:55 am and 2:30 to 3:30
Tuesday: 11:30– 2: 30 pm
Wednesday: 8:55 – 9:55 am and 2:30 to 3:30
Thursday: By Appointment (Please make appointments 24 hours in advance.)
Friday: 8:55 – 9:55 am (No hours on April 15)

The office hours above are just a starting point. I am often online and I am frequently available outside these hours, including evenings. Please feel free to Skype/Page any time you see me online. You may also email me at any time. I will gladly make appointments for other times (either online or in person).

Class meeting time and place:

CSC 102.001
8:00 - 8:50 am on Monday, Wednesday and Friday
McKibben Building - #17 on campus map
Room 324

Course 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.

Prerequisite:

Eligibility for enrollment in college algebra.
While this is NOT an online class, we will be using the D2L Learning Management System for homework and quiz submissions. Students are encouraged to complete the D2L Student Tutorials prior to the first day of class. This is a face-to-face class and student success is dependent upon being present at every class meeting.

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://cs.sfasu.edu/cs/plo/

Student Learning Outcomes:

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 pseudo code, 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. Use E-mail, networks, and the Internet.
8. Demonstrate knowledge of fundamental computing terminology.
9. Demonstrate an understanding of the role of computing in society.

Required Materials (to be brought to class every day):

*Textbook (Custom Publish- available at local bookstores)*

**TITLE:** COMPUTER SCIENCE; INTRO TO JAVA PRGMING

**EDITION:** 2014

**PUBLISHER:** PEARSON C

**ISBN:** 9781269685603

USB Flash Memory Drive
Course Requirements:

Examinations worth 780 of 1,000 total course points. See class calendar in d2l for the dates.

- Exam 1 worth 150 points (15% of course grade)
- Exam 2 worth 180 points (18% of course grade)
- Exam 3 worth 210 points (21% of course grade)
- Comprehensive Final Examination worth 240 points (24% of course grade)

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 and Quizzes:

Assignments and quizzes worth a total of 220 points of the 1,000 total course points (22% of the course grade) will be given. Periodic in class and online quizzes will be given. Assignments/quizzes will be of unequal weight. Not all assignments/quizzes will be graded. No
Make ups.

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 and quizzes during the last five class days of the semester.

Course Calendar/Tentative Timeline:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to Computers, Programming, and Java Number Systems - Binary</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Elementary Programming Number Systems – Hex</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Elementary Programming</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Selections</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Exam 1 Selections</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Selections</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Loops</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Mid Term Review Exam 2</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Loops</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Methods</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Reading From a File</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Single Dimensional Arrays</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Exam 3 Single Dimensional Arrays</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Single Dimensional Arrays</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Dead Week Review</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Final Exam</td>
<td></td>
</tr>
</tbody>
</table>

Specific exam dates and assignment due dates will be available on the Calendar tool in the D2L learning management system. Once registered and the semester has started, students can access D2L via [d2l.sfasu.edu](http://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>
</tr>
</thead>
<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 D2l course calendar.

Attendance: Student success is dependent upon being present at every class meeting. If you are absent from class please make sure to get notes from a classmate. Please remember there is no eating or drinking allowed in our classrooms/labs. Only students officially registered for the course and approved assistants may attend class.

Participation: Participation in the course is essential and may be taken into consideration for your final grade.

D2L (Desire2Learn): This course will use the D2L Learning Management System. The course login page may be accessed via your mySFA account or by linking directly to d2l.sfasu.edu. 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.

Academic Integrity: Please review the University policy on Academic Integrity. 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
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;
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
www.sfasu.edu/policies/academic_integrity.pdf.

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. 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 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. I consider the person who did the work (homework, quiz, test) 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.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-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.

Special Accommodation Request: Students with special accommodation 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 about any event which requires special accommodations.

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 www.sfasu.edu/disabilityservices/.

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.

**Identification:** Valid SFA student I.D. cards with CID (not SSN) must be presented on each exam day. (No I.D...No exam...Grade of zero)