CSC 102.006: Computer Science Principles
Fall 2019

Anne Marie Eubanks
Department of Computer Science
College of Sciences and Mathematics
312P Ed and Gwen Cole STEM Building (#11 on campus map)
eubanksanne@sfasu.edu
936-468-2508

Office Hours - Office 312P and Online
Monday: 9:55 a.m. – 10:55 a.m. & 2:20 p.m. – 3:20 p.m.
Tuesday: 9:50 a.m. – 10:50 a.m. & 1:45 p.m. – 2:00 p.m. & 3:15 – 3:45 p.m.
Wednesday: 9:55 a.m. – 10:55 a.m. & 2:20 p.m. – 3:20 p.m.
Thursday: 9:50 a.m. – 10:50 a.m. & 1:45 p.m. – 2:00 p.m. & 3:15 – 3:45 p.m.
Friday: 9:55 a.m. – 10:55 a.m.

The office hours above are just a starting point. I am often online and I am frequently available outside these hours. Please feel free to 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 102.006
2:00 p.m. – 3:15 p.m. Tuesday and Thursday
Ed and Gwen Cole STEM Building (# 11 on the campus map)
Room 316

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.

Grade Reminder:  Must have a C or better in each prerequisite course.
Prerequisite:  Two years of high school algebra or equivalent.

Credit Hours:  3
CSC 102 “Computer Science Principles” (3 credits) typically meets twice each week or three times each week for a total of 150 minutes for 15 weeks, and also meets for a 2-hour final examination. Students have significant weekly reading assignments. Students are expected to complete 6 - 7 homework assignments, 6 – 12 laboratory or
programming assignments, and 3 periodic exams in addition to the final exam. Students are expected to prepare for any in-class assignments or quizzes over the material covered in class or in the reading material. These activities average at a minimum 6 hours of work each week to prepare outside of classroom hours.

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.

**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. You may access the program learning outcomes for your major and particular courses at [http://cosm.sfasu.edu/cs/computer-science-outcomes-objectives-graduation-data](http://cosm.sfasu.edu/cs/computer-science-outcomes-objectives-graduation-data).

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

Required Materials (to be brought to class every day):
- *Introduction to Java Programming, Brief Version, 11th Edition*
  by Y. Daniel Liang
- USB Flash Memory Drive

Course Requirements:
This course will be making use of the SFASU D2L Learning Management System. Students are encouraged to complete the D2L Student Tutorials. This is a face-to-face class and student success is dependent upon being present at every class meeting.

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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</thead>
<tbody>
<tr>
<td>900 - 1,000</td>
<td>A</td>
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<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>0 - 600</td>
<td>F</td>
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</table>

Missing the final Exam F

Examinations are worth 70% of the course grade. See class calendar in D2L for the dates, tentative dates listed (except for the Final).
- Exam 1: September 20, 2019 - worth 100 points (10 % of course grade )
- Exam 2: October 18, 2019- worth 150 points (15 % of course grade )
- Exam 3: November 8, 2019 - worth 200 points (20 % of course grade )
- Comprehensive Final Examination worth 250 points (25 % of course grade )
  - NO Exemptions
  - Thursday, December 12, 2019 1:30 p.m. – 4:00 p.m.
  - http://www.sfasu.edu/registrar/194.asp

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 or switch to another section. **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.

**Empahsis:** 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 are worth 30% of the course grade. Periodic in class and online quizzes will be given. Assignments/quizzes will be of unequal weight. Not all assignments/quizzes will be graded.

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. **No Make ups.** Programs must be submitted in D2L in the Dropbox.

Specific exam dates and assignment due dates will be available on the Calendar tool in the D2L management system. Once registered, students can access D2L via d2l.sfasu.edu using their mySFA username and password.

**Help Support Resources:**

**AARC Tutors:** The AARC tutors are in in 206 Ed and Gwen Cole STEM Building.

- Monday - Thursday: 4:00 p.m. – 8:00 p.m.
- You may use this time to get help from the tutors, or to use the lab computers.

You may access this and more information at [http://library.sfasu.edu/aarc/walk-in-tables/](http://library.sfasu.edu/aarc/walk-in-tables/).

**Open Lab** - in 206 Ed and Gwen Cole STEM Building

- Monday – Thursday: 9:00 a.m. – 5:00 p.m.
- Friday: 9:00 a.m. – 3:00 p.m.
- You may use the lab computers during this time.
The Library Linc is open:
- Monday – Thursday: 7:00 a.m. - 1:00 a.m.
- Friday: 7:00 a.m. to 6:00 p.m.
- Saturday: 10:00 a.m. – 8:00 p.m.
- Sunday: 12:00 p.m. - 1:00 a.m.

Course Calendar/Timeline:

<table>
<thead>
<tr>
<th>General Topic</th>
<th>Approximate % of course devoted to topic</th>
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</thead>
<tbody>
<tr>
<td>Basic Concepts of Computer Systems</td>
<td>7</td>
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<tr>
<td>Systems Software</td>
<td>13</td>
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<tr>
<td>Problem Solving Concepts</td>
<td>20</td>
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<tr>
<td>Program Development</td>
<td>40</td>
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<tr>
<td>Software Engineering Principles</td>
<td>7</td>
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<tr>
<td>Ethics and Careers</td>
<td>5</td>
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<tr>
<td>Exams (plus final)</td>
<td>8</td>
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</tbody>
</table>

A more detailed listing of the topics that the course will cover and approximate amount of time to be devoted to each is available at [http://www.sfasu.edu/sites/default/files/2019-05/CSC102_2019.pdf](http://www.sfasu.edu/sites/default/files/2019-05/CSC102_2019.pdf).

Tentative Timeline:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction to Computers, Programs, and Java Elementary Programming</td>
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<tr>
<td>2</td>
<td>Elementary Programming Numerical Systems</td>
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<tr>
<td>3</td>
<td>Selections</td>
</tr>
<tr>
<td>4</td>
<td>Selections Exam 1</td>
</tr>
<tr>
<td>5</td>
<td>Mathematical Functions, Characters, and Strings</td>
</tr>
<tr>
<td>6</td>
<td>Mathematical Functions, Characters, and Strings</td>
</tr>
<tr>
<td>7</td>
<td>Loops</td>
</tr>
<tr>
<td>8</td>
<td>Loops Mid Term – Exam 2</td>
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<tr>
<td>9</td>
<td>Text IO Methods</td>
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<tr>
<td>10</td>
<td>Methods</td>
</tr>
<tr>
<td>11</td>
<td>Methods Exam 3</td>
</tr>
<tr>
<td>12</td>
<td>Single Dimensional Arrays</td>
</tr>
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</table>
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.

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<td>Missing the final Exam</td>
<td>F</td>
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</tbody>
</table>

D2L (Desire2Learn): This course will use the D2L Management System. The course login page may be accessed via your mySFA account or by linking directly to [https://d2l.sfasu.edu/](https://d2l.sfasu.edu/). Distance Education student support can be found at the SFA Online website: [https://www.sfaonline.info/](https://www.sfaonline.info/).

This course is incorporated into students’ grade point average (GPA) as listed in the Course Grades [http://www.sfasu.edu/policies/course-grades-5.5.pdf](http://www.sfasu.edu/policies/course-grades-5.5.pdf).

A student who wishes to appeal the final grade must follow the procedure listed in the Final Course Grade Appeals by Students, [http://www.sfasu.edu/policies/final-course-grade-appeals-by-students-6.3.pdf](http://www.sfasu.edu/policies/final-course-grade-appeals-by-students-6.3.pdf).

Attendance: Student success is dependent upon being present at every class meeting. Seating Assignments will be made and roll will be taken regularly. Attendance and participation may be taken into consideration for your final grade. **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.

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, [http://www.sfasu.edu/policies/student-code-of-conduct-10.4.pdf](http://www.sfasu.edu/policies/student-code-of-conduct-10.4.pdf)). 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.

**Tobacco Products and Vaping Products:** Effective August 22, 2016, Stephen F. Austin State University is a tobacco and vape free campus. The use of all tobacco and vape products (including but not limited to cigarettes, cigars, pipes, smokeless tobacco, e-cigarettes, vaporizers, vape pens, hookahs, blunts, pipes, snuff, and any other tobacco or vape related product) is prohibited on all property that is owned, leased, occupied, or controlled by Stephen F. Austin State University. Additionally, the sale or free sampling of tobacco or vape products is prohibited on university property. This policy applies to all employees, students, university affiliates, contractors, and visitors (http://www.sfasu.edu/policies/smoking-vaping-and-use-of-tobacco-products-13.21.pdf).

The university shall offer and promote tobacco prevention and education programming on campus as well as provide applicable resources to help individuals who want to quit using tobacco products (http://www.sfasu.edu/tobacco-vape-free.asp).

**Campus Carry at SFA:** During the 84th Texas Legislative Session, Senate Bill 11 (SB11) was passed allowing persons with a License to Carry (LTC) a handgun, under Texas Government Code Section 411.2031 and other applicable laws, to carry their handgun in a concealed manner on public university campuses.

The law allows universities to establish policy restricting certain areas/events of the campus where concealed carry will not be allowed as well as establish storage requirements in residence halls.

Under SFA Policy 13.9, Firearms, Explosives, and Ammunition, the university has designated the following locations as locations where the carrying of a concealed handgun is prohibited:

- Early Childhood Research Center - Entire premise including fenced grounds
- Human Services Building (other than the Telecommunications area) - Entire Premise
- Student Health Clinic - Entire premise
- 3rd Floor of the Rusk Building - 1st and 2nd floors are not excluded from concealed carry
- Any location where a high school, collegiate, or professional sporting event takes place and where club or intramural athletic competition is taking place
- Nonpublic, secure portions of the University Police Department
Occasional, reasonable, temporary restrictions by the president for five (5) days

If you observe a visible weapon, please contact the University Police Department. Call 911 from an on-campus phone or 936-468-2608 from a cell phone.


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 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.


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. A Report of Academic Dishonesty will be filed. This report will be kept on file with the Chair of the Department of Computer Science and with the Dean of the College of Sciences and Mathematics. 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. A Report of Academic Dishonesty will be filed. Do your own work. Do not share your work with others. A course grade of F may be assigned depending on the situation.
All instances of academic dishonesty will be reported to Office of the Dean of the student’s major and to the Chair of the Department of Computer Science. 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. Please read the complete policy at http://www.sfasu.edu/policies/4.1-student-academic-dishonesty.pdf.

A student who wishes to appeal decisions related to academic dishonesty should follow procedures outlined in Academic Appeals by Students.

University Drop Policy: The official university add/drop policy is located at: http://www.sfasu.edu/policies/add_drop.asp 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: At the discretion of the instructor of record and with the approval of the academic unit head, 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, except as allowed through policy [i.e., Active Military Service (6.14)]. If students register for the same course in future semesters, the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average (http://www.sfasu.edu/policies/course-grades-5.5.pdf).

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)