CSC 102-004: Computer Science Principles
Department of Computer Science, STEM Building 312, (936) 468-2508
Fall 2019

INSTRUCTOR INFORMATION:
Mr. Korey Kahler
kahlerke@sfasu.edu
312J STEM Building
(936) 468-1717

CLASSROOM INFORMATION:
STEM Building 318
TR 8:00 A.M. – 9:15 A.M.

OFFICE HOURS:
Monday: 9:00am – 10:00am; 1:30pm – 2:30pm
Tuesday: 9:15am – 10:45am
Wednesday: 9:00am – 10:00am; 1:30pm – 2:30pm
Thursday: 9:15am – 10:45am
Friday: 9:00am – 10:00am

I will gladly make appointments outside the specified Office Hours. You may also email me at any time.

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.

COURSE INTENT:
The purpose of this course is 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.

REQUIRED MATERIALS FOR CSC 102:
- USB Flash Memory Drive (64 MB minimum)

EXAMINATIONS: (80% of the course grade) - short answer, problems, programs – all exams are comprehensive
3 Class Examinations (See the class schedule for the dates and exam coverage.)
Final Examination (See the class schedule for the time and date)

*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 drop this course.

ASSIGNMENTS AND QUIZZES: (20% of the course grade)
There will be a total of 10-15 assignments and 1-5 quizzes of unequal weight. Periodic in class and online quizzes will be given. 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.
ATTENDANCE:
Attendance and constructive class participation - expected

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. 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.

CONTENT:
The following topics with estimated hours spent on each is listed below:

- Introduction to computer science (1)
- Basic Concepts of Computer (3)
- Systems Software (6)
- Problem Solving Concepts (9)
- Program Development (18)
- Software Engineering Principles (3)
- Ethics and Careers (2)
- Exams (3)

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.
**WEEKLY CALENDAR:**

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<thead>
<tr>
<th>Seq</th>
<th>Weekday</th>
<th>Date</th>
<th>Topics</th>
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<tbody>
<tr>
<td>1</td>
<td>Tue</td>
<td>08/27/19</td>
<td>Syllabus/Course Introduction/D2L Orientation</td>
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<tr>
<td>2</td>
<td>Thu</td>
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<td>Introduction to Java</td>
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<td>3</td>
<td>Tue</td>
<td>09/03/19</td>
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<td>4</td>
<td>Thu</td>
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<td>Computer History</td>
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<td>5</td>
<td>Tue</td>
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<td><strong>Exam 1</strong></td>
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<td>10/17/19</td>
<td><strong>Exam 2</strong></td>
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<td>29</td>
<td>Tue</td>
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<td>Dead Week <em>Review</em></td>
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<td>30</td>
<td>Thu</td>
<td>12/05/19</td>
<td>Dead Week <em>Review</em></td>
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<td>32</td>
<td>Thu</td>
<td>12/12/19</td>
<td><strong>Mandatory Final Exam 8:00am</strong></td>
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*This calendar is tentative and subject to change.*
Other Class Information and Policies.

**Attendance:** Seating Assignments will be made and roll will be taken regularly. Attendance 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 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. Please keep your feet off of the seat backs and seats. Inappropriate student behavior and offensive language in class, computer science facility or other related activity will not be tolerated. Do not sleep in class, I will wake you up. Only students officially registered for the course and approved assistants may attend class.

**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 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 the first person has left the room on the day of an examination, no one else will be permitted to begin the exam. Please note that being in possession of a cell phone or other electronic communication device during an exam will result in an examination grade of zero.

**Assignment Policy:** All assignments are due at the announced time on the specified due date. Assignments will be accepted up to 12 hours late. 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. 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 door or under the door to the Computer Science Offices.

**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.

**Academic Integrity:** Please review the University policy on Academic Integrity. 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 ones paper without giving the author due credit. All instances of academic dishonesty will be reported to Office of the Dean of the students major. This report shall be made part of the student’s record and shall remain on file with the Deans 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-2.

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 communication 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.

**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.

**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. “Students with Disabilities - To obtain disability related accommodations and/or auxiliary aids, students with disabilities must contact the Office of Disability Services, Wisely Hall, Room 104, 468-3004/468-1004 (TDD) as early as possible in the semester. Once verified, DS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided.”

Identification: Valid SFA student I.D. cards with a CID (not SSN) must be presented on each exam day. (No I.D...No exam...Grade of zero)
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://cs.sfasu.edu/cs/plo/.

General Student Policies:

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.

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.

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 information, 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.