CSC 102 Computer Science Principles
Spring 2016
Dr. Mike Pickard
McKibben 304A  936-468-2508  mpickard@sfasu.edu

Office Hours:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Monday</td>
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<tr>
<td>Tuesday</td>
<td>3:15 p.m. to 5:00 p.m.</td>
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<tr>
<td>Wednesday</td>
<td>10:30 a.m. to 11:30 a.m.</td>
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<tr>
<td>Thursday</td>
<td>3:15 p.m. to 5:00 p.m.</td>
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<tr>
<td>Friday</td>
<td>10:30 a.m. to 11:30 a.m.</td>
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Feel free to call for appointments at other times.

Course Description: Computer Science Principles - 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.

Objective: To expose students to the basic concepts of computer systems, system software, problem solving, program development, and the most important modern topics within the discipline. For more information, see http://cs.sfasu.edu/cs/pdf/syll_102.pdf.

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 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 knowledge of fundamental computing terminology.
9. Demonstrate an understanding of the role of computing in society.

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 a computing major and particular courses at http://cs.sfasu.edu/cs/plo/

PREREQUISITE: TSI Complete or Exempt status.


Recommended: A USB flash drive.

For HELP! with your computer: http://www.sfasu.edu/its/175.asp

GRADING COMPONENTS: (subject to change)

Examinations: (80% of the course grade)
NOTE: There are no exemptions for the final exam; the final exam will be administered only at the time specified in the Schedule of Classes. If the final time is a problem, you need to drop this course.
In order to pass this course, you must take the final examination and earn better than a zero!
Assignments: (20% of the course grade) This component will include 8 to 12 program assignments and other homework assignments, as well as announced or unannounced quizzes and in-class exercises.
At least 5 Java program assignments (besides the first one) must be completed satisfactorily, or your final course average will be lowered by one letter grade.*
Quizzes will usually be given during the first 5 minutes of a class. (These can not be made up).
Assignments and exercises may not be equally weighted.

*Example: A CSC 102 student scores 100 on every test and the final exam. Also, the student completes four of eleven programs that are scored 100 each. The student receives a zero for the remaining seven assignments. With perfect scores on quizzes and in-class work, the student has an average of 41.6% on the Assignments component and 100% on the Examinations component.
0.8 * 100 = 80 points
0.2 * 41.6 = 8.3 points
Total: 88.3 points for the course (normally a B+ average).
Student’s reported grade is a C, because five programs were not completed.
IMPORTANT DATES:
Tentative test dates during the term:
Thurs day, 2/18/2016, and Thurs day, 4/14/16. (25% each)
Comprehensive Final Examination (30%):
10:30 a.m. - 3:00 p.m., Tuesday, 12/17/2015
Last Day to Drop: 3/23/2016

COURSE CALENDAR:

<table>
<thead>
<tr>
<th>CONTENT</th>
<th>Hours</th>
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<tr>
<td>Introduction to computer science</td>
<td>1</td>
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<tr>
<td>Basic Concepts of Computer Systems</td>
<td>3</td>
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<tr>
<td>Systems Software</td>
<td>6</td>
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<tr>
<td>Problem Solving Concepts.</td>
<td>9</td>
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<tr>
<td>Program Development</td>
<td>18</td>
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<tr>
<td>Software Engineering Principles</td>
<td>3</td>
</tr>
<tr>
<td>Ethics and Careers</td>
<td>2</td>
</tr>
<tr>
<td>Exams</td>
<td>3</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>45</strong></td>
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CLASS INFORMATION AND POLICIES
Department of Computer Science McGee 303 936-468-2508

ATTENDANCE AND CLASS CONDUCT: Seating assignments may be made. Roll will be taken regularly. Whether present or not, you are responsible for all lecture material. If you are absent from class, please do not come to my office to ask me to repeat the class lecture. Eating, and use of tobacco or e-cigarettes in the classroom are not permitted. Wearing of hats during exams is not permitted. Please keep your feet off the chairs and the tables. Inappropriate behavior, offensive language, or disruption of the class will not be tolerated. Such behavior may result in administrative removal from class. Cell phones should be turned off for the duration of the class. Your personal computers and classroom computers may be used only when permitted by the instructor. Only students officially registered for the course and approved assistants may attend. Do not sleep in class; I will wake you up. (Also see "Acceptable Student Behavior" below.)

CHEATING: Please see “Student Academic Dishonesty” below or at http://www.sfasu.edu/policies/student_academic_dishonesty.pdf If in my judgment a student is found cheating on an examination, a grade of zero will be assigned as the examination grade and a minimum of one letter grade will be lost in the course grade. A course grade of F may be assigned depending on the situation. If requested, valid student I.D. cards must be presented on each examination day; no I.D. means a grade of zero.

Unless you are otherwise instructed, all class assignments are to be done independently. If in my
judgment a student is found cheating or plagiarizing on any part of a homework assignment, quiz, or test, the student may receive negative points equal to the value of the entire work, and a minimum of one letter grade may be lost in the course grade. 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. Students should be able to talk intelligently to me about their solution to a given assignment if I think it is necessary. DO YOUR OWN WORK! DO NOT SHOW YOUR COMPLETED WORK TO OTHERS! DO NOT ALLOW OTHERS TO COPY YOUR WORK!

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 pass the course.

ASSIGNMENT POLICY: Assignments that are accepted through Desire To Learn (D2L) will normally be due at 11:45 p.m. on a designated date, but assignments may not always be due at that time or on the same day of the week. Unless otherwise announced, no assignment will be accepted later than a nominal grace period of 15 minutes. However, completely correct, early submissions may be given bonus credit.

Programs that do not compile are not acceptable.

No assignments are accepted after the last class day at 5:00 p.m. Please note: You may be given assignments due during the last five class days of the semester.

All assignments that are to be submitted in person are due at the BEGINNING of class (or by an announced time) on the specified due date. That means that any assignment submitted after I have collected the assignments from the class is considered to be late. Unless otherwise announced, no such assignment will be accepted for credit after class. As much as 100% of the total credit may be deducted from late assignments.

Please save all graded assignments until the term is over. Any work turned in to my box should be dated and time-stamped by the CSC dept. staff. Please ask nicely!

EXAMINATION POLICY: Each class examination is 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 exam. If participation in a University-sponsored event conflicts with a scheduled examination, the student must notify me well in advance of the test. In the case of an emergency, contact me before the scheduled examination if at all possible. Failure to do so may result in an examination grade of zero. A grade of zero will be assigned for any missed unannounced quizzes or in-class exercises.

NOTE: There are no exemptions for the final exam; the final exam will be administered only at the time specified in the Schedule of Classes. If the final exam time is a problem, you need to drop this class.

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.

NO OFFICIAL NOTICES SUCH AS CHANGES TO EXAM TIMES AND SO FORTH WILL BE SENT TO THE CLASS VIA non-D2L E-MAIL BY THE INSTRUCTOR. (8/22/2015)

A SUMMARY OF SOME IMPORTANT POINTS:
- No makeup exams or quizzes. Plan to take the final exam time at the officially scheduled date and time.
- Work independently.
- Complete at least five program assignments (but remember that you get zeroes for those that are not completed).
- Quizzes may be given at the beginning of class.
- See me, call me, or email me if you need help.
- Show respect for your classmates, yourself, and me.
Applicable Policies

Student Academic Dishonesty (4.1) 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 assignment; 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 include (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 the Internet or another source; and (3) incorporating the words or ideas of an author into one's paper or presentation without giving the author credit. Please see Article II.B of the Student Code of Conduct http://www.sfasu.edu/policies/student-code-of-conduct_10.4.pdf

Withheld Grades
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, except as allowed through policy [e.g., Active Military Service (6.14)]. 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. - Excerpted from Course Grades Policy http://www.sfasu.edu/policies/course-grades.pdf

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 Code of Conduct, Article II.B.2.e) at http://www.sfasu.edu/policies/student-conduct-code_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 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 Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.

August 20, 2015