CSC 340: Application Software for Microcomputers – Fall 2018

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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:

Monday: 2:30 to 4 pm
Tuesday: 9:30 am to 10:45 and 2 to 3:30 pm
Wednesday: 9:15 to 10:45 am and 2:30 to 3:30 pm
Thursday: 9:30 to 10:45 am
Friday: By appointment

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

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

Class meeting time and place:

CSC 340.001
Tuesday and Thursday from 8 to 9:15 in the Cole STEM Building Room 316

Course Description

Advanced utilization of spreadsheet software. Utilization of database software. Operating systems and disk management skills.

Prerequisite:

CSC 101 or CSC 121 or MGT 272 or nine hours of CSC courses. All prerequisite course must have a grade of C or better. This course may not be used to satisfy advanced computer science requirements for a computer science/computer information systems major or a computer science minor. (Note: The course does satisfy advanced computer science requirements for a computer information systems minor or an information technology minor.)

Required Materials:
There is no required book for this course, all material will be provided on BRIGHTSPACE BY D2L. If you would like recommendations on reference books, just let me know.

Reliable access to the Internet and the BRIGHTSPACE BY D2L learning management system (d2l.sfasu.edu)

Software:

- Microsoft Windows Operating System
- Microsoft Access
- Microsoft Excel

Most SFA computer labs have both Access and Excel. SFA students can get both of these products free through SFA’s agreement with Microsoft Office 365. Go to http://www.sfasu.edu/mysfa/o365/ for more information.

Special Software Notes:

- **Mac users:** There is not currently a Mac version of Access, you will need a computer with the Windows operating system to use Microsoft Access. The current Mac version of Excel will be fine for all but one Pivot Chart assignment.
- **Windows users:** Please note that you will need to download the Office 365 package in order to use Microsoft Access, the web version of Office 365 does not support Access.

**Course Requirements:**

**Examinations:**

- One database (Access) exam worth 200 points of the total 1,000 points (20% of course grade)
- One spreadsheet (Excel) exam worth 300 points of the total 1,000 points (30% of course grade)
- One comprehensive (both Access and Excel) final exam worth 200 points (20% of course grade).

**Note:** Once a student leaves the room on the day of the 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. If you have a conflict with another university event, you must contact me well in advance of the examination.

Department policy requires that all students take the final exam. There are no exemptions for the final examination. 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.

**Note:** Once a student leaves the room on the day of the 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. If you have a conflict with another university event, you must contact me well in advance of the examination. Students requesting remote test proctoring must notify the instructor within the first week of the semester. Confirmation from the remote test proctoring location must be received a minimum of two weeks prior to the exam. Please note that the student is responsible for all remote test proctoring fees.

**Class Work:**
Per SFA policy 5.4, this course requires an amount of student work per credit hour that reasonably approximates not less than two hours of out-of-class student work per week for fifteen weeks over a long semester. So for this 3 credit hour course, class work approximates 150 minutes of instruction and at least 6 hours of out-of-class work per week for fifteen weeks.

Assignments and quizzes worth a total of 300 points of the total 1,000 points (30% of the course grade) will be given. Assignments/quizzes will be of unequal weight. Not all assignments/quizzes will be graded. No Make ups or late work accepted. All assignments are due at the announced time on the specified due date. If you have a conflict, please contact me in advance.

**Course Calendar/ Approximate Timeline (See BRIGHTSPACE BY D2L for exact due dates):**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
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| 1    | Course Introduction  
  Excel Review (Basic Excel Functions, charts, working with Dates, cell references (Relative, Absolute, And Mixed))  
  Designing and Creating a Database  
  Database Properties  
  Creating Tables  
  Adding Records |
| 2    | Select Queries  
  Joining Access Tables  
  Calculated Fields And Grouping  
  Crosstab Queries |
| 3    | Introduction To Maintaining A Database  
  Updating Records  
  Changing The Database Structure  
  Validation Rules  
  Referential Integrity |
| 4    | Access Exam - in person lab exam |
| 5    | Excel Functions And Features - Proper, Uppercase, Lowercase, Trim, Right, Left, Mid, Large, Small, Roman, Randbetween Paste Special Operations (Add, Multiply, Etc..), Transpose, Fractions, Freeze Panes, Wrap |
| 6    | Working With Multiple Worksheets - Drilling Down In Excel, 3-D Cell References In Excel, Data Manipulation - Excel Text To Columns And Concatenate, Excel Data Validation |
| 7    | Introduction To Financial Functions  
  Create A Loan Payment Calculator |
| 8    | Creating Cell Names In Excel  
  Creating Excel Data Tables (What-If Analysis) |
| 9    | Logical Functions and Conditional Formatting  
  Amortization Schedule  
  Cell Protection |
| 10   | Working With Large Spreadsheets (Shortcuts)  
  Creating An Excel Lookup Table |
| 11   | Using Subtotals, Advanced Sorting and Filtering |
| 12   | Excel Database Functions |
| 13   | Excel Exam – in person lab exam |
| 14   | Complex Problem Solving |
| 15   | Pivot Tables  
  Pivot Charts |
|      | Final Exam – in person (or proctored) |

Specific exam dates and assignment due dates will be available in the BRIGHTSPACE BY D2L learning management system.

**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.**

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. Only students officially registered for the course and approved assistants may attend class.

Participation: Participation in the course is essential and will be taken into consideration for your final grade. Inappropriate student behavior and offensive language in chat rooms, discussion forums, computer science facilities or other related activities will not be tolerated.

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.

Academic Integrity Academic Integrity (A-9.I)

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 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_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-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.
Computing Laboratory Usage: Students who utilize equipment in university computing laboratories are expected to read and abide by all posted policies for the laboratories.

Identification: Valid SFA student I.D. cards with CID must be presented on each exam day. (No I.D...No exam...Grade of zero)

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://cosm.sfasu.edu/cs/computer-science-outcomes-objectives-graduation-data

Student Learning Outcomes:

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

1. Demonstrate introductory microcomputer operating system skills.
2. Design and develop advanced electronic spreadsheets.
3. Design and develop relational database projects.
4. Demonstrate strategies which can be used to learn new and/or different computer applications.