Overview

Introduction to computer programming and to problem solving techniques using computer programs with applications.

Textbooks

- C Primer Plus, 6th Edition (Optional)
  Author: Stephen Prata
  Publisher: Addison-Wesley Professional
  ISBN-10: 0133432386

Supplementary course materials will be put on eCollege (https://secure.ecollege.com/tcu/). Lecture slides will be made available on eCollege after each lecture.

Objectives and Outcomes

Upon successful completion of this course students will:

- Be able to demonstrate mastery of basic features provided by the 'C' programming languages.
- Mastery of using basic features provided by high-level programming languages;
- Be able to write computer programs to implement simple algorithms;
- Be able to analyze simple real-world problems and develop appropriate program solutions;
- Be familiarity with basic control structures;
- Be familiarity with functions and procedures;
- Understand scope rules;
- Be familiarity with arrays and pointers;
- Be familiarity with basic debugging techniques.

Prerequisites

MATH 10524 or concurrent.

Course Evaluation

<table>
<thead>
<tr>
<th></th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>20% (Week 5-6)</td>
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<tr>
<td>Exam 2</td>
<td>20% (Week 10-11)</td>
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<tr>
<td>Final Exam</td>
<td>20% (3:00-5:30, Thursday, Dec 15)</td>
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<tr>
<td>Programming Assignments</td>
<td>40%</td>
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http://www.cs.tcu.edu/people/professors/ma/cosc10503
COSC 10503 Syllabus

Grading Scale

Plus/Minus grading will be used. The cutoff ranges are as follows.

<table>
<thead>
<tr>
<th>Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>94-100</td>
<td>A</td>
</tr>
<tr>
<td>90-93</td>
<td>A-</td>
</tr>
<tr>
<td>87-89</td>
<td>B+</td>
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<tr>
<td>84-86</td>
<td>B</td>
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<tr>
<td>80-83</td>
<td>B-</td>
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<tr>
<td>77-79</td>
<td>C+</td>
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<tr>
<td>74-76</td>
<td>C</td>
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<tr>
<td>70-73</td>
<td>C-</td>
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<td>67-69</td>
<td>D+</td>
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<tr>
<td>64-66</td>
<td>D</td>
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<tr>
<td>60-63</td>
<td>D-</td>
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<td>&lt; 60</td>
<td>F</td>
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(1) The overall course grade will be determined by the relative contributions from programming assignments and exams as given on the course syllabus.

(2) Borderline cases are subject to the instructor’s discretion, with a positive attitude, classroom participation and improvement throughout the term counting in the student’s favor.

Make Up Exams

Make up exams will be given only for absences discussed with the instructor prior to the exam. If no arrangements are made, your grade will be a ZERO.

Software

You may use the Eclipse IDE for C/C++ Developers for your programming assignments. The IDE is provided for your use in the Tucker labs.

Programming Assignments

There will be eight programming assignments. Programming assignments will be turned in electronically (by classtime on the due date) through the eCollege Dropbox. All assignment MUST be submitted and received BEFORE classtime on the specified due date; otherwise it will be considered late. A penalty of 50 points per day (including weekend days) will be assessed for late programs.

If you need help on a programming assignment, you are expected to have made a legitimate effort to write the program on your own prior to seeking help.

Computers and servers are occasionally "down" due to failure, routine maintenance, upgrades, etc. You should allow sufficient time for such contingencies and plan on getting your lab assignments completed in advance of the due date. A similar caveat applies to such difficulties as slow response times, all of the computers being in use, being unable to reach your instructor to ask questions about an assignment, etc.

You should keep all graded and returned assignments until you have received your final course grade in case a question arises about an assignment's grade.
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Lab Assistants

Shortly after the semester begins, there will be COSC student TAs located in the Tucker 357 Computer Lab. These TAs are there to assist COSC 10403 and 20203 students. They MAY also be able to assist you with 'C' questions - but there is no guarantee of that. Your instructor will inform you of times as soon as they have been determined. These times will also be posted on the Computer Science Department's web server.

Attendance Policy

Class attendance as well as participation could have an impact on your final grade. You will be held responsible for all material presented in class. If you choose to miss a class, you should be aware that this could adversely affect your performance on tests. It is your responsibility to obtain all materials missed and to make up all lectures, discussions, etc. without the aid of the instructor.

Grading Errors

Requests for re-evaluation of points on exams, homeworks, and projects must be returned to the instructor within one week, and accompanied by a brief written description of the grading error you believe was made. After this time, grades are final. Re-evaluations will not be done in the classroom, before, during or after class. Resubmission for re-evaluation subjects the entire assignment for review. This means that if an error was made in your favor, you may lose points when re-submitting.

Academic Dishonesty

The Computer Science Department takes academic dishonesty very seriously. Academic misconduct will not be tolerated. Such acts are detailed in the current TCU Academic Catalog and include: copying, using, or in any way misrepresenting another’s work as your own; substituting for another or having someone substitute for you; plagiarism; collusion; abusing resource materials; unauthorized use of computer software or hardware; fabrication and falsification; complicity in misconduct. Such conduct at a minimum results in a zero on the test or assignment, and may result in a failing grade for the course.

Disabilities Statement

Texas Christian University complies with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973 regarding students with disabilities. Eligible students seeking accommodations should contact the Coordinator of Student Disabilities Services in the Center for Academic Services located in Sadler Hall, 1010. Accommodations are not retroactive, therefore, students should contact the Coordinator as soon as possible in the term for which they are seeking accommodations. Further information can be obtained from the Center for Academic Services, TCU Box 297710, Fort Worth, TX 76129, or at (817) 257-6567.

Adequate time must be allowed to arrange accommodations and accommodations are not retroactive; therefore, students should contact the Coordinator as soon as possible in the academic term for which they are seeking accommodations. Each eligible student is responsible for presenting relevant, verifiable, professional documentation and/or assessment reports to the Coordinator. Guidelines for documentation may be found at http://www.acs.tcu.edu/disability_documentation.asp.
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Students with emergency medical information or needing special arrangements in case a building must be evacuated should discuss this information with their instructor/professor as soon as possible.

Course syllabi are intended to provide students with basic information concerning the course. The syllabus can be viewed as a 'blueprint' for the course; changes in the syllabus can be made and students will be informed of any substantive changes concerning examination, the grading or attendance policies and changes in project assignments.

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