Syllabus Outline

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Instructor Information

Instructor: Amardeep Kahlon
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Office Hours: Visit http://www3.austincc.edu/it/fachours/view.asp?id=6285
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Please remember to have your synonym number in the subject line of your email. Your synonym number is 20413. Emails sent without the proper synonym will not get a response. Additionally, my email client filters junk mail based on various factors. If the subject line of the email is blank, it is automatically treated as Spam and dealt with accordingly.

Home page: http://www.austincc.edu/kahlon/
Facebook: http://www.facebook.com/akk.acc
Twitter: Gigabyte10100

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Course Description

COSC 1315 FUNDAMENTALS OF PROGRAMMING (3-3-1). An introduction to computer concepts, logic, and computer programming. Includes designing, coding, debugging, testing, and documenting programs using a high-level programming language.

For Early College Start students, this course will satisfy the technology requirement in many high schools – please check with your counselor. Prerequisite skills: College level Reading and Math.

Textbook / Materials

Required Textbook: An Introduction to Programming with C++, Sixth edition, Diane Zak
Publisher: Course Technology
ISBN-10: 0-538-46652-9

Software: The software used in this class is Dev C++. It is available free at http://bloodshed.net/dev/devcpp.html

Instructional Methodology:

This course is conducted online. All labs are submitted through Blackboard, the online course management system. All course materials are also delivered through Blackboard. Students will also participate in online discussions in Blackboard to earn class participation points.

Course Rationale:

This is an entry level programming course designed to teach students the basics of program design, coding and testing. The purpose of the course is to create hierarchy charts, flow charts, pseudocode and create test tables in the whole process of program design. A high level programming language is used to reinforce the concepts learned during design. This course is included in the following degree plans:

- Associate of Applied Science – Computer Programming
- Associate of Applied Science – Local Area Network Administration
- Associate of Applied Science – Microcomputer Application Support

Course Objectives / Learning Outcomes:

1. Demonstrate problem solving skills by developing algorithms to solve problems incorporating the concept of data abstraction in a computer program.
2. Design a simple program using the specifications provided by creating structure charts, modules and pseudocode.
3. Implement a simple program by writing the code, performing unit testing and debugging the program.
4. Incorporate the use of sequential, selection and repetition control structures into a program.

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5. Demonstrate an understanding of the design and implementation of functions and the passing of parameters to simplify the solution of large problems and to promote the concept of code reuse.
6. Understand the basic principles and concepts of object-oriented programming.

SCANS Competencies

Competencies have been identified that are relevant to the level of instruction in the community college environment. These competencies reflect the knowledge and skills employees need to succeed in any occupation. This course will expose the student to the concepts and application of the following competencies:

- Students select relevant goal-related activities, rank them in order of importance, allocate time to these activities, and understand, prepare and follow schedules.
- Students acquire and evaluate information.
- Students organize and maintain information.
- Students interpret and communicate information.
- Students use computers to process information.
- Students know how social, organizational and technological systems work and operate effectively with them.
- Students suggest modification to existing systems and develop new or alternative systems to improve performance.
- Students understand overall intent and proper procedure for setup and operation of equipment.
- Students locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.
- Students communicate thoughts, ideas, information, and messages in writing; create documents such as letters, directions, manuals, reports, graphs, and flow charts.
- Students perform basic computations; use basic numerical concepts such as whole numbers, etc.
- Students approach practical problems by choosing appropriately from a variety of mathematical techniques.
- Students receive, attend to, interpret, and respond to verbal messages and other cues.
- Students specify goals and constraints, generate alternatives, consider risks, and evaluate and chooses best alternative.
- Students recognize problems and devise and implement plan of action.
- Students organize and process symbols, pictures, graphs, objects, and other information.
- Students use efficient learning techniques to acquire and apply new knowledge and skills.
- Students discover a rule or principle underlying the relationship between two or more objects and apply it when solving a problem.
- Students exert a high level of effort and persevere towards goal attainment.

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• Students believe in own self-worth and maintain a positive view of self.
• Students demonstrate understanding, friendliness, adaptability, empathy, and politeness in group settings.
• Students assess self accurately, set personal goals, monitor progress, and exhibit self-control.
• Students choose ethical courses of action.

Grade Policies

The class grade will be based on your performance on the tests, completion of projects and exercises, and class participation.

Orientation Quiz ................................................................. 15 points
Class Participation ............................................................. 35 points
Labs................................................................. 10 @ 15 points each...150 points
Exams.............................................................3 @ 100 points each -300 points
Exam 4 .............................................................1 @50 points each – 50 points

NOTE: Exam 4 is a departmental assessment test

Total points Possible (Excluding Extra Credit)....... 550 points

There may be extra credit work assigned during the semester. This work will be announced to the class through Blackboard. Extra credit cannot be applied towards a missed lab or exam. Only students who have turned in all the labs and taken all the exams will be eligible for the extra credit.

The following grading scale will be used to assign the final grade:
495 and above.......................... A
440 – 494.......................... B
385 - 439.......................... C
330 - 384.......................... D**
<330.......................... F

** A grade of D does not count as a valid prerequisite grade or a transfer grade

There will be no make up exams – no exceptions will be made to this rule. All exams must be taken by the deadline listed in the schedule. Assigned labs are due by the dates indicated on the schedule.

For labs that are turned in late, the following late policy will apply:
  a) 1 calendar day late.......................... 20% off
  b) 2 - 5 calendar days late.......................... 50% off
  c) More than 5 calendar days late.......................... 100% off

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Teaching Methods
This is a distance learning course taught in the ONL format. ONL courses require students to have access to a computer with an Internet connection and an ACC email address to access and **complete coursework online**. Students may use computers from home or work, or they may use the [ACC Computer Studies Open Labs](#). In this course, assignments will be disseminated online and students will submit the assignments through Blackboard. As the assignment is graded, I will enter the grade in the Blackboard grade book. Students can access the grade book and view their grades online. Grades will not be sent through email for reasons of confidentiality. Students will also participate in the online discussion board in Blackboard. This will count towards your class participation points. In order to log into Blackboard you will need your ACCeID. [Click here for more information](#) about ACCeID if you have not activated your eID yet.

[Click here to log into Blackboard](#) AFTER you have your ACCeID. Please bookmark the Blackboard login link in your browser as you will be visiting it often during this course.

**All tests will be taken in the computer studies open labs – please DO NOT go to the testing center to take the test**. You can view the open lab hours, room and phone numbers by [clicking here](#). In order to take the test, you will go to your nearest Computer Studies Open Lab during the hours it is open. You will present your ACC student ID to the lab technician and he/she will hand the exam to you and guide you to a computer. [Please see the course FAQ](#) for more information.

Course Policies

**Academic Dishonesty**: Plagiarism and cheating are serious offenses and may be punished by failure on exam, paper or project; and/or failure in course.

Cheating is any of the following:
1. Taking the work of another student and turning it in as your own.
2. Giving your work to another student to turn in as their own.
3. Getting information about the exam from another student.
4. Giving information about the exam to another student.
5. Copying material off the Internet and turning it in as your own.
6. Copying material off the Internet without giving credit to the source.
7. Getting someone else to do your labs for you.

I consider cheating to be a serious offense. The first incident will earn you a grade of 0 or F for that particular lab or exam. A second offense will result in an F in the course. **The burden of proof rests on ALL parties involved**.

The ACC Student Handbook defines academic dishonesty as:”Acts prohibited by the College for which discipline may be administered include scholastic dishonesty, including but not limited to cheating on an exam or quiz, plagiarizing, and unauthorized collaboration with another in preparing outside work. Academic work submitted by students shall be the result of their thought, research or self-expression. Academic work is defined as, but not limited to tests, quizzes, whether taken...
electronically or on paper; projects, either individual or group; classroom presentations, and homework” (http://www.austincc.edu/handbook/)

**Posting of Grades:**
Final course grades will not be posted. The final course grade is mailed to the student by the ACC Admissions and Records office. Students may also log into their ACC Online account after the end of the semester and look at their grade. A final letter grade will also be posted to the Blackboard grade book in the last week of class.

**Incomplete:**
An Incomplete may not be used as a shelter from a potentially low grade in the class. A student may qualify for an “I” (Incomplete) at the end of the semester only if **ALL of the following conditions are satisfied:**

1. The student is unable to complete the course during the semester due to documented extenuating circumstances.
2. The student must have earned at least half of the grade points needed for a “C” by the end of the semester.
3. The request for the grade must be made in person at the instructor’s office and necessary documents completed.
4. To remove an “I”, the student must complete the stipulations of the Incomplete contract signed with the instructor no later than two weeks prior to the end of the next semester. Failure to do so will result in the grade automatically reverting to an “F”.

**Withdrawal:**
It is the student’s responsibility to complete a withdrawal form in the Admissions Office or online if he/she wishes to withdraw from this class. The last date to withdraw for this semester is **Monday, October 18, 2010**. If the withdrawal is not completed by 5 PM on October 18, the student will receive a performance grade (A, B, C, D, or F) that they have earned at the end of the semester. **Alert: State law allows only 6 withdrawals per student in the entire undergraduate degree no matter how many colleges you attend. Please see the FAQ for more information.**

**Freedom of Expression Policy:**
Each student is strongly encouraged to participate in classroom discussions. In any classroom situation that includes discussion and critical thinking, there are bound to be many differing viewpoints. These differences enhance the learning experience and create an atmosphere where students and instructor alike will be encouraged to think and learn. On sensitive and volatile topics, students may sometimes disagree not only with each other but also with the instructor. It is expected that faculty and students will respect the views of others when expressed in classroom discussions.

**Attendance in an online class:**
Students are expected to actively participate in the PCM class and will be held responsible for all material assigned in class. Regular interaction with the instructor and with other students helps ensure satisfactorily progression towards completion of the course. You must participate in all discussions posted on the discussion board.

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Students with Disabilities:
Each ACC campus offers support services for students with documented physical or psychological disabilities. Students with disabilities must request reasonable accommodations through the Office for Students with Disabilities on the campus where they expect to take the majority of their classes. Students are encouraged to do this three weeks before the start of the semester (http://www.austincc.edu/handbook/).

Tutoring:
Free tutoring is provided for this course. For schedules and details please refer to http://www.austincc.edu/cit/tutor.htm

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**Course Schedule – COSC 1315**  
**Fall 2010**

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This is a preliminary course schedule and may be changed. If there are any changes to this schedule, the class will be informed in writing. **All assignments are due by midnight on the date listed.**

An explanation: The Topic/Reading column gives you a recommended schedule for readings and labs. The actual course can be paced according to your preference and speed. The labs can be turned in before the due dates. A student with a prior knowledge of C++ can have all the labs done within a few weeks. There is no penalty or extra credit for turning in the labs early. There is a penalty for turning in the labs late. **Please read the course FAQ and syllabus carefully. See the exam deadlines at the end of this schedule.**

<table>
<thead>
<tr>
<th>Week #</th>
<th>Start date of week</th>
<th>Topic / Reading</th>
<th>The labs and Due Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>September 20</td>
<td>Chapter 1 – An introduction to Programming</td>
<td>Lab 1: Complete the orientation quiz - must be completed by September 27</td>
</tr>
<tr>
<td>2</td>
<td>September 27</td>
<td>Chapter 1 – An introduction to Programming</td>
<td>Lab 2</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Lab 3: Turn in labs 2 and 3 by October 7</td>
</tr>
<tr>
<td>3</td>
<td>October 4</td>
<td>Chapter 2 - Beginning the Problem Solving Process</td>
<td>Lab 4 Turn in by October 14</td>
</tr>
<tr>
<td>4</td>
<td>October 11</td>
<td>Chapter 3 – Variables and Constants Also read the documents under Course Documents in Blackboard – Parts of a C++ program and Common Errors in a C++ Program</td>
<td>Lab 5 Turn in by October 21</td>
</tr>
<tr>
<td>5</td>
<td>October 18</td>
<td>Chapter 4 – Completing the Problem Solving Process</td>
<td>Lab 6 Turn in by October 26</td>
</tr>
<tr>
<td>Week #</td>
<td>Start date of week</td>
<td>Topic / Reading</td>
<td>The labs and Due Dates</td>
</tr>
<tr>
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<td>-----------------------------------------------</td>
</tr>
</tbody>
</table>
| 6     | October 25        | Chapter 5 - The Selection Structure  
Chapter 6 – more on the Selection Structure | Lab 7                                         |
| 7     | November 1         | Chapter 7 - The Repetition Structure  
Chapter 8                                      | Lab 7  
**Turn in by November 9**                      |
| 8     | November 8         | Chapter 9 - Value Returning Functions  
Lab 8                                           |                                               |
| 9     | November 15        | Chapter 10 - Void Functions  
Lab 8  
**Turn in by November 22**                      |                                               |
| 10    | November 22        | Chapter 11 - Arrays  
Lab 9  
**Turn in by December 2**                      |                                               |
|       |                    | **ACC is closed from November 25 through 28 for Thanksgiving**                 |                                               |
| 11    | November 29        | Chapter 13 - Strings  
Chapter 14 - Sequential Access Files          | Lab 10  
**Turn in by December 9**                      |
| 12    | December 6         | Course Wrap Up  
Lab 10  
**Turn in by December 9 – NO Exceptions!**    |                                               |

**Exam 1 MUST be taken by November 5.** Chapters 1, 2, 3 and 4 will be covered in Exam 1.

Please read the syllabus and FAQ CAREFULLY to see where you will go to take all the exams.

**Exam 2 MUST be taken by November 20.** Chapters 5, 6, 7 and 8 will be covered in Exam 2.

**Exam 3 MUST be taken by December 10.** Chapters 9, 10, 11, 13 and 14 will be covered in Exam 3.

**Exam 4 (Departmental Assessment Exam) MUST be taken by December 10.** Exam 4 is a departmental exam to measure the learning outcomes of this course.

**THE END!!**