## Course Information

<table>
<thead>
<tr>
<th>Programming Fundamentals I</th>
<th>Ginnette Serrano-Correa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2017</td>
<td><a href="mailto:gcorrea@dccc.edu">gcorrea@dccc.edu</a></td>
</tr>
<tr>
<td>COSC 1436</td>
<td>If you are having problems with eCampus, please call LeCroy Help Desk for technical support at 972-669-6402.</td>
</tr>
<tr>
<td>Time and Location: ONLINE</td>
<td>Lab Location: A206 972-860-8076</td>
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## Course Description

Introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course will use instructional examples and assignments from the C++ programming language.

COSC 1436 will satisfy the Associate in Sciences degree general elective requirement. This course will fulfill degree requirements established by the colleges of DCCCD only if this course has been successfully completed and the date of completion does not exceed 10 years. (3 Lec., 3 Lab.)

## Required Materials

**Textbook:** *An Introduction to Programming with C++, 8th Edition.*
Author: Diane Zak

You can buy the book as an eBook or a physical book. You can buy through the Cedar Valley Bookstore, Course.com or another source.

**Software**

There are several free C++ compilers. DevC++ for PC’s, CodeBlocks, Visual C++ and XCode for Macs. Any compiler is fine to use.

## Course Prerequisites

DREA 0093 or English as a Second Language (ESOL) 0044 or have met the Texas Success Initiative (TSI) standard in Reading.

## Disclaimer –

The instructor reserves the right to amend this syllabus as necessary.

## Important Dates:

**Start Date:** 6/05/2017  **End Date:** 12/07/2017  **Drop Date:** November 9, 2017

Certification Day is *September 2, 2017*

Online Students will obtain certification by completing Quiz 0.

*This is mandatory for those students who are receiving financial aid.*
Texas Core Objectives for Student Learning

The College defines essential knowledge and skills that students need to develop during their college experience. These general education competencies parallel the Texas Core Objectives for Student Learning. In this course, the following skills are in focus.

1. **Critical Thinking Skills** - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

2. **Communication Skills** - to include effective development, interpretation and expression of ideas through written, oral and visual communication

3. **Personal Responsibility** - to include the ability to connect choices, actions and consequences to ethical decision-making

Student Learning Outcomes

At the end of the course the student will be able to:

- Design and implement software solutions to problems using classes and objects.
- Communicate ideas and concepts clearly and in an organized manner
- Select and implement appropriate algorithms and data structures to solve problems.

CVC Learning Signature

CVC’s Learning Signature is One College Transforming Lives. Cedar Valley College establishes clear expectations for students through engagement and empowerment leading to excellence.

CVC Faculty and Staff expect students to:

- take responsibility for their own learning
- commit to achieving high academic performance
- be meaningfully engaged in the campus community

CVC Faculty and Staff expect to:

- provide students a clear pathway of instruction
- establish clear learning outcomes
- serve as role models and mentors for students
Course Outline

In a 16-week class, for maximum success in this course you should spend a minimum of 12 hours per week working on course material.

The course due dates will be posted on ecampus when class starts.

<table>
<thead>
<tr>
<th>Assignment</th>
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<tbody>
<tr>
<td>Syllabus Quiz</td>
</tr>
<tr>
<td>Chapter 1 An Introduction to Programming (optional with prior programming course)</td>
</tr>
<tr>
<td>Chapter 2 Beginning the Problem Solving Process (optional with prior programming course)</td>
</tr>
<tr>
<td>Chapter 3 Variables and Constants</td>
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<tr>
<td>Chapter 4 Completing the Problem-Solving Process</td>
</tr>
<tr>
<td>Chapter 5 The Selection Structure</td>
</tr>
<tr>
<td>Chapter 6 More on the Selection Structure</td>
</tr>
<tr>
<td>Chapter 7 The Repetition Structure</td>
</tr>
<tr>
<td>Chapter 8 More on the Repetition Structure</td>
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<table>
<thead>
<tr>
<th>Mid- Term</th>
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<tbody>
<tr>
<td>Chapter 9 Value-Returning Functions</td>
</tr>
<tr>
<td>Chapter 10 Void Functions</td>
</tr>
<tr>
<td>Chapter 11 One-Dimensional Arrays</td>
</tr>
<tr>
<td>Chapter 13 Strings</td>
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<tr>
<td>Chapter 14 Sequential Access Files</td>
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| Comprehensive Final-Exam |

Getting Started

1. The first step in getting ready for the class is to get your computer ready before the course actually begins. In addition, you will need to have an Internet service provider established in order to connect to the Internet.

2. Logging in to the Class

   Open your Internet browser and type the following URL in the Address text box: [http://ecampus.dcccd.edu](http://ecampus.dcccd.edu) (or from the Cedar Valley College Home Page, click the eCampus link).

   a. In the Login Here section, type in your Student ID# with a lower case "e" in front of the number (example: e3456789) for both the Username and the Password.

   b. Click the Login button.

   c. Please go to Personal Information (link is on the left) and change your Password after your initial login. (See instructions below.)

   d. If you still cannot login, please contact Technical Support at [ecampus.support@dcccd.edu](mailto:ecampus.support@dcccd.edu).

   e. Click the Courses tab and select the course you want to work in from the list of courses you are enrolled in.
3. Begin by reading the announcement.

   **The pace of the class is determined by the course schedule.** You can work through instructional materials on your own, at times convenient to you, but you must complete the assignments by the time specified in the schedule. If you do not complete all assignments when they are due, it will become difficult to complete the course. Falling behind is the biggest obstacle to your success.

   I will work with you one-on-one to evaluate your assignments and to help you privately with any questions or problems. My goal is your success.

**Cheating:** You are cheating if you submit someone else’s solution for a program or copy from websites. These days it is easy to go online and find someone or some service to do your work. It is easy for me to spot work that is not yours or two of the same solutions submitted the same semester or even the same solution submitted a prior semester. Solutions to problems are unique just like a paper you write.

   **First cheating offense in the class:** 0 on the assignment or exam and you must meet with me at my convenience to be able to complete the course.

   **Second cheating offense in the class:** ‘F’ in the course. The Dean of the CIT Department and the Vice Presidents of Instruction and Student Services will be notified.

**Ecampus**

   Familiarize yourself with the eCampus on-line course system by looking at the **Student Manual**. A lot of useful information can be found regarding site use and navigation. To find the Student Manual: Click on **Tools**

   Look for icons to appear in your browser window

   Click on **User Manual**

**Evaluation Procedures**

   Print the course schedule and place it by your computer so that you can easily determine when your assignments are due. The course schedule is designed to help you pace yourself and remain on task so that you do not fall behind.

   As you can see from the grading system, your grade will come from a variety of activities, not just exams.
Quiz 0 is worth up to 10 Bonus points

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Points</th>
<th>Total</th>
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<tbody>
<tr>
<td>Programming Labs [14]</td>
<td>50</td>
<td>700</td>
</tr>
<tr>
<td>Mid-Term/Final Exam</td>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>Self-Check Quizzes [13]</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Discussions [4]</td>
<td>25</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>1000</strong></td>
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Grading Scale

Grade: (A) = 900 - 1000 (B) = 800 - 899 (C) = 700 - 799 (D) = 600 - 699 (F) = 599 or below

Lab assignments will be deducted 1 point for each day late. Discussions close on the due date. Exams close the last day of class.

Exams and Assignments

The final grade for the course reflects evaluation of the student’s work on the following assignments that are calculated as follows:

**Lab Assignments:** The Assignments/Exams section of your course contains the Lab assignments from your book.

**Discussion Board:** Discussion Board comments are entered online under the Discussion Board navigation button. You will be encouraged to post a short biographical sketch about yourself (and a digital picture if you have one) and to share your comments/ideas about four discussion topics (and to react to the comments of others).

**Exams:** Concept Exams will be administered on-line during the week indicated in the Course Schedule. Most of the questions on the exam will be derived from the Self Check Quizzes. There is a 1 hour and 20 minute time limit on the exams. There are 2 exams.

Service Learning

The College offers a Service Learning Program that allows students to earn recognition for hours worked in a volunteer program with a local organization. See the Cedar Valley College web site for additional information.

http://www.cedarvalleycollege.edu/CommunityMembers/Lists/WebPages/DispForm2.aspx?List=4910a51c%2D65b2%2D4293%2D9ecd%2D5f5aa383b44d&ID=17
Stop Before you Drop Under a Texas law (TEC Section 51.907), if you drop too many classes without having an acceptable reason, your GPA could be affected. Be sure you understand how this law may affect you before you drop a class.

The law applies to students who enroll in a Texas public institution of higher education (including the colleges of DCCCD) for the first time in fall 2007 or later. Under this law, you may not drop more than six classes without an acceptable reason during your entire undergraduate career without penalty. For more information, please see our catalog or read Facts About Dropping Classes.

If you drop or withdraw before the official drop/withdrawal deadline, you will receive a grade of W (Withdraw) in each class dropped until the seventh unacceptable drop. You will earn a grade of WF for the seventh unacceptable drop, and each unacceptable drop after that. A grade of WF will be calculated in your GPA as an F.

The deadline for receiving a W is indicated on the academic calendar and the current class schedule.

For more information, you may access:
http://www.dcccd.edu/Why/Reg/Registration/Pages/DropWithdraw.aspx

The Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. This class may not be repeated for the third or subsequent time without paying the additional tuition. Third attempts include courses taken at any of the Dallas County Community Colleges since the fall 2002 semester. More information is available at:
http://www.dcccd.edu/PC/Cost/3rdCrseAttmpt/Pages/default.aspx

Attendance Policy

For the online course, there is no set day and time to meet. (For the on-campus course, it is your responsibility to attend your on-campus lectures and labs regularly. Your lecture/lab instructors will be monitoring your attendance.)

You may work on this course from any computer that meets the hardware requirements and at any time convenient to you; however, you should make sure you follow the Course Schedule so as not to lose points on assignments due to late submissions. In addition, you should login to your course daily to check for new announcements. Changes, deadlines, and other important information will be posted on this page as necessary, and being unaware of the available information will not be accepted as an excuse for failing to comply with it.

Tutoring Services

For tutoring contact Maryam Johnson 972-860-8076 to setup an appointment. Make sure to tell Mrs. Johnson that you are a programming student. The programming tutor is only available on certain days and times set at the beginning of the semester.
QUALITY ENHANCEMENT PLAN
Cedar Valley College's Quality Enhancement Plan is designed to improve student learning in mathematics. Read more about our QEP at:
http://www.cedarvalleycollege.edu/QEP/default.aspx

INSTITUTIONAL POLICIES

“Institutional Policies relating to this course can be accessed from the following link”
www.cedarvalleycollege.edu/syllabipolicies