Course Information

<table>
<thead>
<tr>
<th>Programming Logic and Design</th>
<th>Tim Xeriland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2016</td>
<td><a href="mailto:txeriland@dccc.edu">txeriland@dccc.edu</a></td>
</tr>
<tr>
<td>ITSE 1429-93402</td>
<td>972-860-8239</td>
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<tr>
<td>INET</td>
<td>A108B, Mon-Thurs 1pm-3pm (Best to make an appointment)</td>
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Course Description:

Problem-solving applying structured techniques and representation of algorithms using design tools. Includes an introduction to programming, testing, evaluation, and documentation. (3 Lec., 4 Lab.)

The goal of this course is for you to become comfortable with the basic problem solving concepts that you need to know and understand when working in a technical field with an emphasis in programming. This course will cover all fundamental areas of problem solving.

Required Materials Including Textbooks (include ISBN)

Note: A minimum of 9 hours per week should be devoted to course material outside of class time

1. Required Text:
   - Title: Programming with Alice and Java
   - Authors: John Lewis, Peter Depasquale
   - Publication Date: February 2008
   - Publisher: Addison-Wesley

Course Prerequisites:

Students need to complete ITSE 2413 Web Authoring or its equivalent. See instructor for more information.

Disclaimer –

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

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. Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
5. Personal Responsibility - to include the ability to connect choices, actions and consequences to ethical decision-making
6. Social Responsibility: to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities
Student Learning Outcomes

- Understand how to use variables and functions in JavaScript.
- Utilize strings and arrays in JavaScript.
- Learn how to validate a form using client-side script.
- Build Roll Over Functions and Timing Events.
- Use loops and conditional statements with JavaScript.

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

For maximum success in this course you should spend a minimum of 9 hours per week working on course material.

Programming Logic and Design Schedule: (Please feel free to work ahead)

<table>
<thead>
<tr>
<th>Sec #</th>
<th>Dates</th>
<th>Chapter</th>
<th>Topic</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>01/20/16 – 01/22/16</td>
<td></td>
<td>Orientation / Overview</td>
<td>Assignment 0</td>
</tr>
<tr>
<td>2</td>
<td>01/23/16 – 01/25/16</td>
<td></td>
<td>Handout Hello World</td>
<td>Assignment 1</td>
</tr>
<tr>
<td>3</td>
<td>01/26/16 – 02/01/16</td>
<td>Ch 1</td>
<td>Objects</td>
<td>Assignment 2</td>
</tr>
<tr>
<td>4</td>
<td>02/02/16 – 02/08/16</td>
<td>Ch 2</td>
<td>Methods</td>
<td>Assignment 3</td>
</tr>
<tr>
<td>5</td>
<td>02/09/16 – 02/15/16</td>
<td>Ch 2</td>
<td>Methods</td>
<td>Assignment 4</td>
</tr>
<tr>
<td>6</td>
<td>02/16/16 – 02/22/16</td>
<td></td>
<td>Handout Variables</td>
<td>Lab 1</td>
</tr>
<tr>
<td>7</td>
<td>02/23/16 – 03/01/16</td>
<td>Ch 3</td>
<td>Conditional Statements</td>
<td>Assignment 5</td>
</tr>
<tr>
<td>8</td>
<td>03/02/16 – 03/10/16</td>
<td>Ch 3</td>
<td>Loops</td>
<td>Lab 2</td>
</tr>
<tr>
<td>9</td>
<td>03/11/16 – 03/19/16</td>
<td>Ch 3</td>
<td>Loops</td>
<td>Assignment 6</td>
</tr>
<tr>
<td>10</td>
<td>03/20/16 – 03/28/16</td>
<td>Handout</td>
<td>Text and Sound</td>
<td>Assignment 7</td>
</tr>
<tr>
<td>11</td>
<td>03/29/16 – 04/06/16</td>
<td>Ch 4</td>
<td>Events</td>
<td>Lab 3</td>
</tr>
<tr>
<td>12</td>
<td>04/07/16 – 04/15/16</td>
<td>All Chs</td>
<td>Basic Games</td>
<td>Lab 4</td>
</tr>
<tr>
<td>13</td>
<td>04/16/16 – 04/24/16</td>
<td>All Chs</td>
<td>All Topics</td>
<td>Propose Game Project</td>
</tr>
<tr>
<td>14</td>
<td>04/25/16 – 05/04/16</td>
<td>All Chs</td>
<td>All Topics</td>
<td>Submit Game Project</td>
</tr>
<tr>
<td>15</td>
<td>05/05/16 – 05/12/16</td>
<td></td>
<td></td>
<td>Last chance to turn in late work.</td>
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**Evaluation Procedures**

Total points will be computed as follows.

- Assignments: 600 points
- Labs: 300 points
- Project: 100 points
- Total: 1000 points

**Discussion Board:** The course Discussion Board is a tool that allows us to communicate with each other in an asynchronous manner. Throughout the semester various questions will be placed on the board. To get maximum credit it is expected that your initial response be at least two paragraphs and all subsequent posts include enough material to be relevant. It is also strongly encouraged that you respond to the posts of your fellow students. Points awarded via Assignments.

**Assignments:** The assignments are a way of reinforcing what you are learning in the text. The assignments increase in value as the semester progresses. In other words, the last assignment is worth considerably more than the first. *600 points*

**Labs:** These are meant to go beyond what is in the text and encourage critical thinking. That means the direct answer might not be in the book, but through critical thinking you can put the pieces together. For example, if you learn \( A=C \) and \( B=C \) then even though you are not explicitly told you can conclude that \( A=B \). *300 points*

**Exams and Assignments**

There are no tests in this class. Yea!!!

**Withdrawal Policy**

If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by **Thursday, April 14, 2016**. Failure to do so will result in receiving a performance grade, usually an “F.” If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped. See institutional policies for additional information on withdrawals.

**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%2D5f5a383b44d&lID=17](http://www.cedarvalleycollege.edu/CommunityMembers/Lists/WebPages/DispForm2.aspx?List=4910a51c%2D65b2%2D4293%2D9ecd%2D5f5a383b44d&lID=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](/catalog) or read [Facts About Dropping Classes](/facts).

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](/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

Students are expected to meet all deadlines and must be actively participating in the course.

Where do I get help?

If you need help with this course, this is the order you should follow:

1. Your classmates (Studies show it is best to get help from peers).
2. Tim Xeriland (E-mail: txeriland@dccc.edu / phone: 972-860-8239)
3. Technical Assistance (Problems with BlackBoard / phone: 972-669-6402)

: http://www.cedarvalleycollege.edu/FutureStudents/StudentServices/TutoringServices/default.aspx

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

Academic Advising

Academic Advising is a collaborative educational process whereby students and their advisors are partners in meeting the students' academic, personal, and career goals. This partnership is a process that is built over the student’s entire educational career at Cedar Valley College.

Educational planning is available to all students. First time in college students must meet with academic advisors prior to enrolling in classes; however, continuing students may choose to see faculty advisors, faculty counselors, and/or program coordinators after classes begin. All parties have clear responsibilities for ensuring a successful partnership. For more information, you may access: https://www.cedarvalleycollege.edu/FutureStudents/StudentServices/AcademicAdvising/Pictures/AdvisingSyllabus.pdf

Academic Honesty

Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test,
plagiarism, and collusion. See Also Student Code of Conduct. https://www1.dcccd.edu/catalog/ss/code.cfm?loc=CVC

**ADA Statement**

If you are a student with a disability and/or special needs who requires accommodations, please contact the college Disability Services Office at 972-860-8119.

**Emergency Alert**

Sign up for DCCCD Emergency Alerts to receive a text-message, e-mail and/or phone call when there is an unscheduled evacuation or closure of a DCCCD campus or office because of weather closures, utility outages, police or other emergencies. Subscribing is free, but standard text message charges from your cell phone provider will apply. **Please refer to:** http://www.dcccd.edu/SS/OnlineSvs/EmergAlerts/Pages/default.aspx

**Financial Aid**

Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

**Health Center Services**

Basic first aid for minor cuts, scrapes, insect stings, and heat, etc.

- Over-the-counter medications for headaches, fever, seasonal allergies, and colds
- Over-the-counter medications for mild allergic reactions
- Emergency sanitary pads
- Blood Pressure check
- Coordination with outside health agencies such as Carter Blood Care; Dallas County Health Dept. (HIV/STD testing--free, twice a semester); UT Southwestern mobile mammography; Immunizations once a month for children <19 y.o. from the DCDHHS; Agape Massage; and Employee Wellness Screening
- Rest area for stress relief, migraine headaches, post seizure activity
- AED (Automatic External Defibrillator) for CPR
- Confidential "talks"
- Assists with health related club activities when asked and time permits

**Religious Holidays**

Absences for observance of a religious holy day are excused. A student whose absence is excused to observe a religious holy day is allowed to take a make-up examination or complete an assignment within a reasonable time after the absence.