

Text: Visual C# 2008 How to Program, 3/E, Deitel & Associates, 2009  
 Publisher: Prentice Hall ISBN: 0-13-605322-X.

Software: Visual Studio 2008 Express, SQL Server Express

**COURSE DESCRIPTION**

Advanced C# programming with emphasis on data structures, dynamic memory allocation, object-oriented programming, user interfaces, and database processing. Overview of web applications, network programming, and reporting tools. Prerequisites: CIS162AD, or permission of instructor.

**COURSE COMPETENCIES**

- |   |   |
|---|---|
| 1. Design and develop solutions to solve advanced business problems using C#. | 5. Develop an advanced user interface.              |
| 2. Describe .NET Framework internals.   | 6. Demonstrate and implement data structures.       |
| 3. Design and develop object-oriented business applications.                  | 7. Describe multithreading concepts.                |
| 4. Demonstrate and implement advanced database programs.                      | 8. Design and develop web applications.             |
|   | 9. Examine network application development.         |
|   | 10. Apply .NET packaging and deployment techniques. |
|   | 11. Utilize report designer tools.                  |

**COURSE WORK**

**Weekly** course work includes reading, class lecture review, chapter quizzes and exercises.

**Tests** with question and programming components will be given as each area of course work is completed.

<u>GRADING</u>	<u>Points</u>	<u>Activity</u>	<u>Grade</u>	<u>Total Points</u>
	<b>700</b>	Tests	A	<b>2000-2500</b>
	<b>608</b>	Quizzes	B	<b>1800-1999</b>
	<b>532</b>	Projects	C	<b>1600-1799</b>
	<b>330</b>	Exercises	D	<b>1400-1599</b>
	<b>280</b>	Attendance	F	<b>0-1399</b>
	<b>50</b>	Surveys		
	<b>2500</b>			

**CLASS PROCEDURES**

Each class will consist of segments for review of reading, questions, lecture, demonstration, and hands-on lab work. The student will be responsible for reading, review, online quizzes, exercises and projects.

**Reading** should be completed prior to the class period in which the material will be covered.

**Quizzes** relating to each assigned chapter are completed online in Blackboard prior to the beginning of each class in which the chapter is scheduled to be covered.

**Exercises** assigned for each chapter must be completed and submitted by email to the instructor in the specified format by 7:00 P.M of the due date. Exercises must execute to receive any credit. Late exercises will be penalized by 25% per week or fraction thereof. A partial timely exercise submission may be followed by one additional submission for additional penalized credit. No exercises will be accepted after the final.

**Projects** demonstrating cumulative programming skills must be completed and submitted by email to the instructor in the specified format by 7:00 P.M of the due date. Late projects will be penalized by 25% per week or fraction thereof. A partial timely project submission may be followed by one additional submission for additional penalized credit. No projects will be accepted after the final.

**Tests** will consist of online questions of selected questions from the chapter online quizzes. If you must miss a test, you must contact the instructor before the test or you will not be eligible for a make-up test. Reasonable arrangements will be made for a substitute time and place to take a substitute test.

**Attendance** will be taken and is a direct part of your grade as specified above and will affect your ability to complete course work in a proper and timely manner.

**Withdrawals** are subject to current college policy and are the responsibility of the student. The instructor may initiate the withdrawal of a student from the class after two unexcused absences or two unexcused failures to submit assignments.

Classes may not be recorded.

Students are subject to and must comply with college policies found in the current **College Catalog** and **Student Handbook**.

**COURSE OUTLINE AND ASSIGNMENTS**

WK	DATE	TOPIC(s)	READING	PTS	ASSIGNMENT [Due Date]
<b>1</b>	<b>01/19</b>	<b>M L King Birthday No Class</b>			
2	01/26	Admin, Knowledge Tour Review	Ch01-04	25 157 50	Background Survey Q:01,02,03,04 P01 [02/08]
3	02/02	Review	Ch05-07,13	81 30	Q:05,06,07,13 E02:10,11,12 [02/15]
4	02/09	Review	Ch08,11,14	64 40 50	Q:08,11,14 E14:7,8 [02/22] P02 [02/22]
<b>5</b>	<b>02/16</b>	<b>Presidents' Day No Class</b>			
<b>6</b>	<b>02/23</b>	<b>Test: Ch 01-08, 11, 13, 14</b> Classes and Objects	Ch10	<b>200</b> 18 30	Q:10 E10:16 [03/08] P03 [03/08]
7	03/02	Interfaces, Operator Overloading Strings	Ch12 Ch18	30 40	Q:12,18 E18:3,6 [03/15]
8	03/09	Searching and Sorting Data Structures,Collections Generics	Ch25-28	70 60 100	Q:25,26,27,28 E27:12, E28:15 [03/22] P04 [03/29]
<b>9</b>	<b>03/16</b>	<b>Spring Break No Class</b>			
<b>10</b>	<b>03/23</b>	<b>Test: Ch 10, 12, 19, 25-28</b> GUI 2 Linq	Ch15 Ch09	<b>200</b> 35 30 50	Q:09,15 E09:03 [04/12] P05 [04/19]
11	03/30	Database and Linq to SQL Files and Streams	Ch21 Ch19	40	Q:19,21
12	04/06	XML	Ch20	35 40	Q:20 E20:8,10 [04/19]
<b>13</b>	<b>04/13</b>	<b>Test: Ch 09, 15, 19, 20, 21</b> GUI with WPF	Ch16	<b>100</b> 44 30 50 102	Q:16 E16:09 [04/26] P06 [05/03] P07 [05/08]
14	04/20	WPF Graphics & Media	Ch17	33 30 30	Q:17 E17:04 [05/03] E19:03 [05/03]
15	04/27	Database		30	E21:03,04 [05/08]
16	05/04	Lab			
<b>17</b>	<b>05/11</b>	<b>Final:</b>		25 <b>200</b>	Course Evaluation

Q=Online Quizzes, E=Exercises, P=Projects

### **Statement Regarding Internet and Computer Usage**

Internet and computer usage is for class assignments and related research **only!** Inappropriate use of the Internet or computers is subject to loss of privileges, class withdrawal and other disciplinary action.

### **Statement Regarding Special Needs**

Any students with special needs should inform the instructor of any assistance that will be required. In order to accommodate your needs, you will need to give proper notice as to what accommodations will be necessary, and have documentation on file in the Disability Resource Center. It is preferable that you identify yourself at the beginning of the semester. If this is not possible, you must give at least 48 hours notice before an accommodation is necessary. Special arrangements can be made regarding seating, hearing devices, testing time, as well as many other concerns. If there are any other concerns you have, please address them as soon as possible or call the Disability Resource Center at (602) 787-7172 or visit the website at <http://www.pvc.maricopa.edu/~drc/>.

### **Statement Concerning Plagiarism**

Plagiarism is defined as presenting the work of another as one's own. More than four consecutive words from a source other than the writer constitute plagiarism when the source is not clearly identified in appropriate document format.

From the PVCC Student Handbook:

"Plagiarism includes, but is not limited to, the use of paraphrase or direct quotation, of the published or unpublished work of another person with out full and clear acknowledgement. Is also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials."

### **Information on Computer Commons**

The Computer Commons, located in Building E, Learning Resource Complex, E-137, is available to any PVCC student who has enrolled in the NC-500 section 0001 course and thus paid \$5.00/semester fee for Open Lab access. Specific hours of operation, detailed policies and procedures, installed software and additional information may be obtained from the website at <http://www.pvc.maricopa.edu/cc/> or by calling (602) 787-6760.

### **Information on Learning Support Center Services**

The PVCC Learning Support Center is located in Building E, Learning Resource Complex, E-180. The mission of the Learning Support Center is to support learning and help students achieve their potential. The Learning Support Center offers free instructional support to students for any of PVCC's academic classes. The LSC provides handouts covering such reading and study skills as taking lecture notes, studying for exams, improving vocabulary, and many more. There are also tip sheets available online. The Learning Support Center also has self-paced programs and multi-media resources available. For a schedule of tutoring hours, additional information or assistance contact the Learning Center at (602) 787-7180, or visit the website at <http://www.pvc.maricopa.edu/lsc/>.