BUS 392: Business Application Development
Winter 2014
Orfalea College of Business
California Polytechnic State University

Instructor:	Dr. Kevin Lertwachara
Office:	03-404
Office Hours:	Tuesday and Thursday from 2:10pm to 4pm
Office Phone:	(805) 756-1302
Email:	klertwac@calpoly.edu

Course Description:
This course will introduce you to the basics of computer application development. Our primary focus is on computer applications in a business environment. We will use Microsoft's C# language to learn the basic concepts of computer programming, programming logic and to develop an application that can communicate with MS Office as well as online information services such as Yahoo Finance and Zillow.com.

Course Objectives:
The course will incorporate up-to-date application development tools and technologies currently used by business enterprises. Upon the completion of this course, you will be able to:
- Use basic programming tools available in Microsoft's .NET platform
- Design and implement basic input and output interfaces in C#
- Develop computer programs that can integrate with business applications such as MS Excel and Access
- Develop computer programs that communicate with popular online services such as Yahoo Finance, Zillow.com, and other Web services.

Required Text:
We will use the following book to cover the basic programming techniques.
"Starting Out with Visual C# 2012," 3rd edition, Tony Gaddis, Pearson. ISBN 0133129454

Handouts will be provided for topics related to MS Office and Web Services.

Grading:
Grades will be determined based upon performance on the homework, assignments, in-class participation, and exam. The weights are assigned as follows:

Final exam:	30%
Mid-term exam:	25%
Group assignment:	20%
Homework:	10%
In-class exercises:	10%
Class attendance/participation:	5%

Exams: There will be <u>one mid-term exam</u> on Thursday, February 13th (see the schedule below) and <u>one final exam</u> at the end of the quarter to be held on Thursday, March 20th (University's schedule).

Group assignment: There will be one hands-on assignment where groups of **two** students develop computer applications related to course materials. You will be able to form your own group. You may propose your own project to be approved or otherwise complete the provided assignments.

Homework: Homework will be assigned approximately once a week and will be due the following week. The homework assigned on a Tuesday is due on the following Tuesday before class, and the homework assigned on a Thursday is due on the following Thursday before class. Homework is to be completed individually. This is **NOT** a group assignment—each student is to work and hand in his/her own homework. Late homework will receive 10% penalty. Any homework turned in more than one day late will not receive any credit.

In-class exercises: In most class meetings, students will work in **small groups** on assignments related to the materials discussed on that day.

Class attendance: Students are expected to arrive on time and attend every class except for emergency. If a class is missed, it is the student's responsibility to obtain class notes, handouts, etc. Students are also expected to work on in-class exercises. Any use of emails, instant messengers, Internet, or materials not related to class work will result in a penalty reflected in your class participation grade.

Note: **Do your own work**. As a student at Cal Poly, you have an obligation to abide by the university's honor code and the student computing policy. Any violation of this code will immediately be sent to the judicial board. Any plagiarism or cheating will result in an automatic failure (i.e., you will receive an "F" grade for the course).

Tentative Class Schedule (Subject to change)

Week of	Topics

January 7 & 9	- Chapters 1 and 2: Introduction to C# and Visual Studio 2012
	    • Skip section 2.7 in Chapter 2
	
	- Chapter 3: Processing Data (i.e., variables, input, and output)
	    • Skip section 3.11

January 14 & 16	- Chapter 3: Processing Data (i.e., variables, input, and output) • Skip section 3.11
January 23	- Chapter 4: Making Decisions Skip sections 4.8, 4.9, and 4.10 ***Tuesday, January 21st follows a Monday schedule.***
January 28 & 30	- Chapter 4: Making Decisions Skip sections 4.8, 4.9, and 4.10 - Chapter 5: Loops, Files, and Random Numbers • Skip sections 5.6, 5.7, and 5.8

February 4 & 6	- Chapter 5: Loops, Files, and Random Numbers
	    • Skip sections 5.6, 5.7, and 5.8
	
	- Chapter 7: Arrays and Lists
	    • Skip sections 7.4 through 7.9
	
	Mid-term Exam Review

February 11 & 13	- Chapters 3, 4, 5, and 7: Developing more advanced .NET applications ***Mid-term exam on Thursday, February 13th ***
February 18 & 20	- Developing .NET applications with MS Excel
February 25 & 27	- Developing .NET applications with MS Excel (continued)
March 4 & 6	- Developing .NET applications with MS Access/ Oracle - Integrating .NET applications with online services (Handout)
March 11 & 13	- Integrating .NET applications with online services (Handout)…continued ***Group Assignment Due on Friday, March 14th at 5pm*** ***Final Exam Review*** ***Final Exam will be on Thursday, March 20th ***