COURSE SYLLABUS
CS 5202: Computer Science Fundamentals II
(5 credit hours)

Instructor	Duane Yoder
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Office	TLC 2-215
Office hours	M 1p-3p, TR 9a-11a, 1p-3p (May change with notice)
Course Web	http://courses.cs.westga.edu (Moodle)
Class meeting	M 5:30p – 8:00p, TLC 1211. This class will be offered in a blended format, with approximately 60% of the work online.
TA	Christine Rolka (crolka1@my.westga.edu)

Course Description

A continuation of the basic software development process introduced in CS 5201. The emphasis is on object-oriented development. Topics will include: the design, creation, debugging, and testing of classes and simple class hierarchies, the structuring of data using lists, and basic algorithm development.

Prerequisites

CS 5201

Textbook

J Lewis. *C# Software Solutions: Foundations of Program Design*, Addison Wesley.
Various web resources.

References

Ingram Library has a subscription to the Safari Books Online database. This website provides full-text online versions of various technical books, including books on C# and .NET. You are encouraged to take advantage of this resource.

ACM Student Membership – Student Digital Library Package

Required software (See course web for information on obtaining software.)

Microsoft Visual Studio .NET 2005

Major Topics Covered

Topic	Description
1	Writing classes
2	Controlling program flow
3	Lists and collections
4	Design and testing
5	Inheritance

Learning Objectives

1. Be able to create a class that has data members, constructors, and methods that take parameters and return values.
   Bloom: 3
2. Be able to control the flow of a program within a method using control constructs.
   Bloom: 3
3. Be able to describe and use lists for basic data organization and manipulation.
   Bloom: 3
4. Be able to discuss and implement simple class hierarchies.
   Bloom: 3
5. Apply the divide-and-conquer problem solving strategy in the design of a class.
   Bloom: 3
6. Explain basic issues related to object-oriented design, including the design and interaction of classes and methods.
   Bloom: 2
7. Be able to document, compile, test, and debug simple programs.
   Bloom: 3

Assignments

There will be both written and development-based assignments.

All written assignments must be typed and submitted as a Microsoft Word document via Moodle unless otherwise specified.

You may discuss the assignments with the instructor, TA, and others in the class. However, do not look at or copy another student's solutions when writing your solutions or code. All work must be your own, unless otherwise stated. I am not concerned with how you come to understand the material, but once you obtain the understanding, you must provide your own solutions. Assignments where cheating has been determined will receive a zero and possible dismissal from the course – see Academic Honesty below.

Quizzes

Most units will have a quiz. Each quiz will be worth 20 points and can be taken online. You are allowed to consult textbooks and other online resources for a quiz. However, you may not consult with anyone while taking the quiz.

There is no time limit for a quiz, but once a quiz is started it must be completed.

Grading

There will be 10 assignments worth 20 points each, five quizzes worth 20 points each, and one project worth 50 points for a total of 350 points. There will be no extra credit in this course.
Grades will be awarded on the following scale:
A: 350 – 315
B: 314 – 280
C: 279 – 245
F: 244 or less

Late work

All assignments and projects are due at the scheduled time. Late work is NOT accepted.

Academic honesty

Homework assignments (unless otherwise noted), tests, and projects must be done individually.

Don't use the work of others or let someone else use your work. You will receive an F for the course if you cheat, whether you are the source or the user of the shared work.

The incident will also be reported to the Office of Student Affairs so that they can determine if further disciplinary action is warranted.

Class management

Please turn off your cell phones and pagers during class.

Special Needs

Any student sanctioned by the office of Disability Services must have a Student Disability Report and a Disabled Student Handbook available to share with the Faculty before any graded work is determined as to have made as appropriate arrangements as needed. For more information, please visit http://www.westga.edu/~dserve/menu.html.