BCIS 122 – Intro to Object-Oriented Programming
Syllabus - Fall 2013

Instructor
Dr. Bobbie Green
(505) 646-2640
Guthrie Hall, Room 313a
http://learn.nmsu.edu
Thursday 1:30 – 2:30 or by appointment

Textbook (Required)


- Alice 2.x Software (free). We will use version 2.3. You can download the software from: http://www.alice.org/index.php?page=downloads/download_alice2.3

Course Description

This course introduces the basic concepts of computer programming in a visual environment (Alice). Emphasis will be given to algorithm development, data description, control structures, and object oriented principles. Students will also be introduced to a third generation programming language. At the end of the course, students should have a solid understanding of the basic programming concepts necessary to proceed to BCIS 222.

Please note that you MUST earn a 'C' or better in this course in order to proceed to BCIS 222.

Prerequisite: C or better in BCIS 110 or CS 110; and MATH 120.

Course Objectives

The student who completes this course should be able to:

- Create an animation using Alice
- Create an interactive program using Alice
- Identify and use:
  
  1. Planning tools such as storyboards, pseudocode, and algorithms.
  2. Variables and control structures (functions, if/else, loops).
  3. Classes, objects, methods, parameters, and inheritance.
  4. Events and event handlers.
  5. Arrays
• Relate concepts from the visual environment of Alice to a third generation programming language
• Understand the purpose of an integrated development environment

Readings and Labs

You are responsible for reading the chapters and completing the lab assignments. The key to become a good developer is to start programming from day one. As such, you will be asked to do a number of lab assignments. These will allow you to apply the concepts covered in a particular chapter.

Quizzes

The purpose of the quizzes is to motivate you to read each chapter in the textbook. The quizzes will reinforce the assigned readings. You will take the quiz via Canvas.

Exams

Exams comprise 50% of your final grade. There are three exams and each exam has two parts. Part 1 will cover the assigned readings and will be taken via Canvas (like the weekly quizzes). Part 2 of the exam will be a hands-on project.

Projects

There will be three projects assigned during the semester. The projects will serve as the hands-on portion (part 2) of your exams. As with labs, the purpose of the projects is to allow you to apply the concepts covered in a comprehensive project.

Students with Disabilities

Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) covers issues relating to disability and accommodations. If a student has questions or needs an accommodation in the classroom (all medical information is treated confidentially), contact:

• Trudy Luken, Student Accessibility Services (SAS) – Corbett Center, Room 244,
• Phone: 646-6840
• Email: sas@nmsu.edu, Website: www.nmsu.edu/~ssd/

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• Gerard Nevarez or Agustin Diaz, Office of Institutional Equity (OIE) – O’Loughlin House,
• Phone: 646-3635
• Email: equity@nmsu.edu, Website: www.nmsu.edu/~eeo

Scholastic Dishonesty

• Scholastic dishonesty will not be tolerated. The penalty for dishonest behavior can range from receiving a zero for an assignment/exam to censure from the University.

Incomplete Grades:

• Under university policy, incompletes may be given only if a student has a passing grade at mid-semester (the last day to withdraw from a class) and is precluded from successful completion of the second half of the course by a documented illness, documented death, family crisis or other similar circumstances beyond the student's control. **An incomplete will not be given to avoid assigning a grade for marginal or failing work.**

Withdrawals and drops:

• The deadline for withdrawing from a course in the fall is **October 15, 2013.** In the case of a withdrawal, the course remains on the student’s transcript and the grade is listed as “W”. Students in the College of Business may withdraw from a class by presenting an add/drop slip to the staff in the Advising Center who will process it, if it is received prior to the deadline.
• You can be administratively withdrawn from the class if you have excessive absenteeism and/or excessive missed assignments.

Point and Grade Distribution

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<td>Projects</td>
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