

Information Systems 322

Intermediate Object-Oriented Programming

Syllabus- Spring, 2009



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Meeting Place: BC 115

COURSE DESCRIPTION: BCS 322 is a study of Advanced Programming and related issues as these topics apply to the design and implementation of [Object-Oriented](#) business systems. By the end of the semester, each student should be able to demonstrate:

- the ability to design business solutions using the Object-Oriented paradigm
- the skills necessary to design implement a simple Object-Oriented system using the Java programming language, using Java Swing GUI components, and possibly elementary web API's.
- sufficient programming/design skill to proceed to 400-level BCS coursework. **NOTE: students MUST earn a 'C' or better in BCS 322 in order to proceed to a number of the 400-level BCS courses.**

REQUIRED MATERIALS:

Text: Java : How to Program, [Deitel & Deitel](#), 6th ed. Example problems come on the CD with your text. Please let me know if the CD is not present or defective and I'll get you another one.

DEVELOPMENT ENVIRONMENT

The CD-ROM included with the textbook contains a number of development environments. The student may choose any of the systems on the CD, but reading the [installation instructions](#) page on the Deitel site or on the CD is essential. Newer versions of the software is provided from the site free of charge. Further, we will explore other development environments during the course.

Who Should Take This Course?

- Information Systems majors or others who have passed BCS 222 (or equivalent) with the grade of "C" or better, or consent of instructor.
- The expectation of students in this course is to leave with a basic understanding of algorithms and Object Oriented paradigm. IS majors should be prepared to devote a significant amount of time and effort to perform well in this course.

Who Should Not Take This Course?

- Any students who have not completed the prerequisites (subject to instructor approval)

Classroom Policies

- **Attendance:** Attendance is not required, but history shows that students who miss class often do very poorly. The material in this course builds continually on what has gone before. Because of this, I have found that students who miss more than 2 classes per semester have a very difficult time earning even a grade of 'C' for the semester.
- **Excused absences:** A University approved excuse will be required for an absence to be excused.
- **Drop/Add procedures:** As stated in University catalog.

- **Tardiness:** Please be considerate of fellow students. Please enter quietly and do not disrupt class.
- **Make-up tests:** Make-up examinations will be given ONLY in the case of a University approved absence (documentation required) or prior arrangement with the instructor.
- **Questions during class:** Please feel free to raise your hand and ask questions in class.
- **Homework:** All homework will be turned in as a hardcopy (sometimes on disc as well). There will be a significant number of homeworks (almost 1 per class). From each homework, a random number of student assignments will be graded. If your homework isn't in those collected, you will receive a 0 for that homework. All students will receive the same number of homework grades for the semester.
- **Communications devices:** Communications devices such as pagers and cellular phones must be off and/or silent during class. Devices that disrupt the class will be confiscated and sold as scrap metal.
- **Tardy Homework:** Homework will not be accepted for full credit after the due date and time. Some assignments may allow for late turn-in, but at reduced credit.
- **Socializing during class:** Much of the class time will be spent in discussion groups of various sizes. However, when one person is talking all class members are expected to listen to that person. People not willing to listen will be asked to leave the classroom.
- **Web-CT:** This course is support by Web-CT (World Wide Web Course Tools). This includes class specific email, chat rooms, bulletin boards, quizzes, class schedule and on-line grades.

GRADING

• EXAMS

- There will be at least 2 examinations; the average of your grades on these exams will count for 20% of your grade

• INDIVIDUAL PROJECTS

- You will be tasked to design and implement a unique project and class hierarchy applying the principles covered in class. This project (due at the end of the semester) will count for 60% of your grade.

• PROGRAMMING ASSIGNMENTS and CHAPTER QUIZZES

- You will be given an WebCT quiz on each of the chapters covered in the text. These quizzes will count for 10% of your grade.
- As indicated above, you will be asked to do a number of programming assignments. Only some of these assignments will be given a formal grade. The graded assignments will count for 10% of your grade. The purpose of the assignments is twofold:

- First, these assignments will give you a current indicator of your understanding of the material. Whether your homework gets graded on a particular day or not, the homework will be discussed in the following class. **Be sure to ask questions and/or get help immediately if you don't understand the homework or it's solution, as catching up if you fall behind is very difficult.**
- Second, the homeworks give me an indicator of where the class as a whole is, and help me keep from going too fast (or too slow) through. A word on formatting: all assignments must at a minimum be readable, and have quality documentation. To this end, all students should use Netbeans to assure consistency in coding style. The Netbeans IDE is running in all labs and is available for free download.

• SCALE

After exams and programming assignments are tabulated, letter grades will be assigned as in the table below. NOTE: I will do some rounding, but in the following manner: 89.444 is a B, no exceptions, but 89.445 will round to an A. Make SURE that you do all the work so you don't wind up a hundredth or thousandth of a point short, because I give you the grade you earned, nothing more, nothing less.

90-100%	A
80-89.9	B

70-79.9	C
60-69.9	D
Below 60	F

IMPORTANT DATES

Students should regularly check the academic calendar for drop/add dates, application deadlines and more. Click here to see the [current academic calendar](#).

ADDITIONAL INFORMATION

Academic Dishonesty	As all assignments in this course are of an individual nature, joint work is considered to be inappropriate and will be dealt with as necessary. Situations involving illegal or inappropriate behavior can result in disciplines up to and including as University censure. Please reference the NMSU Student Handbook for a full description of the NMSU Policy.
New Academic Appeals Process	Information about the academic appeals process appears in every edition of the undergraduate catalog. Probably the most important thing for you to know (besides the fact that there is an appeals process) is that the process is started by submitting a written appeal to the course instructor within 30 days of the start of the term following the term in which the grievance occurred. Please ask me if you need help with this.
Removal from Class	It will be the responsibility of the student to monitor their progress and decide if it is appropriate to withdraw from the class. I will not automatically disenroll students for persistent absences or persistent failure to complete assignments.
E-Mail response time	I will read e-mail in WebCT daily. Therefore, you can anticipate responses within 24 hours.

Incomplete Grades

Incomplete grades are to be given only if a student has passed the first half of the course, and is unable to complete the course due to circumstances beyond the student's control. (If the circumstances develop during the first half of the course, the student has the opportunity to drop the class.) Examples of appropriate circumstances are documented illness, documented death or crisis in the student's immediate family and similar circumstances. The catalog states that job related circumstances are generally not appropriate grounds for assigning an I grade and that this grade is not to be used to avoid assigning a D, F, or U grade.

Disabilities Statement

If you have (or believe you have) a disability and would benefit from classroom accommodation(s), please contact the Services for Students with Disabilities:
Accommodations: SSD Office, 646-6840 (Corbett Center, rm. 244) Michael Armendariz

Student Responsibilities:

1. Register with SSD and obtain accommodation documents early in the semester;
2. Deliver the completed accommodation and testing form(s) to the instructor(s) within the first two weeks of beginning of classes (or within one week of the date services are to commence);
3. Retrieve the signed form(s) from faculty and return to SSD within five (5) days of receipt from faculty and at least one week before any scheduled exam; and,
4. Contact the SSD Office if the services/accommodations requested are not being provided, not meeting your needs, or if additional accommodations are needed. Do not wait until you receive a failing grade. Retroactive accommodations cannot be considered.

Faculty Responsibilities:

1. Sign the *ACCOMMODATION REQUEST FORM* and *TESTING ACCOMMODATION FORM* (when presented), retain a copy, and return the original to the student within five (5) working days of receipt;
2. Contact SSD immediately if there are any questions or disputes regarding accommodation(s), disruptive behavior, etc.; and,

3. Refer the student to SSD for any additional accommodations.

**Discrimination: Office of Institutional Relations, 646-3636
(O'Loughlin House) Gerard Nevarez**

All medical information will be treated confidentially.

Expected level of participation

You are strongly encouraged to participate in the classroom discussions, but this will not be explicitly monitored. Because we will use more than one methodology for classroom participation, you may find that you are more comfortable with alternative methods.