BCIS 322. Section 01
Advanced Object Oriented Programming
Class Meets TuTh 1:10 – 2:25 p.m., GU 303

Instructor: Jim Shannon
Office Hours: MW: 10:30 am – 12:00 pm
TuTh 8:30 am – 10:00 am.
Office: Guthrie 318
Phone: 646-4281
Website: http://learn.nmsu.edu

Course Scope

BCIS 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 and implement a simple Object-Oriented system using the Java programming language, using Java Swing GUI components, and possibly elementary web API's.
• advanced skill at using an Integrated Developers Environment (Netbeans or Eclipse)
• sufficient programming/design skill to proceed to 400-level BCIS coursework. NOTE: students MUST earn a 'C' or better in BCIS 322 in order to proceed to a number of the 400-level BCIS courses.

Prerequisite: Business majors or others who have passed BCIS 222 (or equivalent) with the grade of "C" or better, or instructor’s consent.

Required Materials

1. Text 1: Murach’s Java SE 6, by Joel Murach and Andrea Steelman
2. Development environment. Preference will be given to Netbeans IDE. You can download a NetBeans tutorial from the Murach website (http://www.murach.com/dloads/jse6/jse6_netbeans_tutorial.pdf)

Responsibilities

As your teacher I have the following
• Come prepared to every class.
• Plan my class so you can accomplish the objectives listed above.
• Treat you as responsible adults
• Consider that is not always your fault if you understand the material.
• Encourage you to ask and answer questions

As students you have the following responsibilities:
• Come prepared to every class.
• Complete all work on time with proper thought to the requirements.
• Behave as responsible adults.
• Consider that it is not always my fault if you don’t understand the material.
• Treat others with respect.

Point Distribution and Grades

New Mexico State University
<table>
<thead>
<tr>
<th>Category</th>
<th>Quantity (Estimated)</th>
<th>Percentage of Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Assignments</td>
<td>5</td>
<td>40%</td>
</tr>
<tr>
<td>Short Assignments</td>
<td>5</td>
<td>10%</td>
</tr>
<tr>
<td>Exams (Exam 3 is a comprehensive project)</td>
<td>3</td>
<td>50%</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>100%</td>
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**Grading Scale**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tr>
<td>90 to 100</td>
<td>A</td>
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<tr>
<td>80 to &lt; 90</td>
<td>B</td>
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<tr>
<td>70 to &lt; 80</td>
<td>C</td>
</tr>
<tr>
<td>60 to &lt; 70</td>
<td>D</td>
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<tr>
<td>&lt; 60</td>
<td>F</td>
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**Note:** After all the material is graded, letter grades will be assigned as in the table above. There is no rounding of grades.

**Project 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 comprehensive and short programming assignments. These will allow you to apply all the concepts covered in class. These assignments have two objectives:
1. Give you a current indicator of your understanding of the material. Be sure to ask questions and/or get help immediately if you don't understand the homework or its solution, as catching up is very difficult.
2. Give me an indicator of how the class is doing as a whole, and help me keep an adequate pace.

**Short Assignments:** These will be short assignments typically given and completed in class. Occasional short assignments may be completed between classes.

**Exams:** Classroom exams will carry most of the weight of your final grade. They questions will come from in-class exercises and programming assignments. Exams may include a few multiple-choice or short answer essay questions. Most, if not all points on the exams will involve programming assignments.

**General Policies**

**Attendance**
You are expected to attend class. Although I will not take attendance, you cannot expect to have a thorough grasp of the material if you miss class. You are responsible for all material or assignments that are covered in class.

**Getting help outside office hours -** The Discussions section of Canvas is an extension of my office hours. You are to post all technical questions here. I will not answer questions about homework in private e-mails. Make sure you use relevant subject headings for your postings. A good, descriptive subject heading will help other students learn from the answers to your questions. A subject heading of “Error” is not relevant. An example of a New Mexico State University
more relevant subject heading is “Help: How do I implement an interface in my class hierarchy?” If you are going to start a new topic, or ask a new question, make sure that you start a new thread. Continuing a previous thread with a new question will only ensure that most people miss your question. Be sure to include enough information in your question. For example, if you are getting a compilation error, make sure you list the compile line you used, the entire error message, and at least 10 source lines that precede the line about which the compiler is complaining. This will give me more information and thus, the more likely you will get a helpful answer. **Do not wait until the last minute to post a question.** I strongly encourage other students to post answers to questions they see on the Discussion Board.

**Missing Exams**

- Makeup Exams will be given only under extraordinary circumstances and the student must submit a **legitimate excuse**. Examples of legitimate excuses:
  - **If it is …**  
    - Due to illness:  
      - You have to bring a…  
        - note from doctor  
    - Due to business:  
      - note from supervisor  
    - Other on a case-by-case basis

**Read carefully:** I must be informed prior the exam to count as a legitimate excuse. **If you cannot reach me, leave a message at the department’s office (646-4901) indicating time and date.** Notifying me by email will not be sufficient. Notifying me after the exam will result in a grade of zero for that exam. Your excuse must be submitted to me and it must contain a telephone number so that your absence can be verified. **Failure to follow the guidelines will mean that you forfeit the excused absence option.**

If a student misses an exam **without a legitimate excuse**, s(he) will receive a grade of zero for that exam.

**Assignment Submission**

- Submit your assignment by **uploading** all files (normally you will be turning in a zipped file that contains the entire project) to Canvas. Besides the program(s), you must include:
  - A two page report of the assignment where you will complete a template provided indicating among other things: name, PA number, completion status, comments, and screenshots of your application. Use the Alt + Print-Screen and Paste methods to paste the form image into your Word Processor document.
  - Comments. Your project should contain javadocs comments throughout your code explaining all the components of your program. We will discuss in class how to create javadocs comments.

- Keep a copy of your files. You may need it for your future assignments.

**Grading the Assignments:**

Your instructor will check your work. To get full grade, your program should provide correct answer. However, points will be deducted for the following:

- Weight distribution: 20% for documentation; 80% for program.
- Incomplete submission.
- Poorly documented program: no comments in all the sections of your program. Lack of proper indenting and spacing in the code. Poor use of meaningful data names.

**NOTE:** You must make sure you are uploading all the proper files for me to grade the assignments. If you fail to upload all the necessary files, you will be penalized and not get full credit for the assignment.

**Late Assignments:** programming assignments may be turned in late, but they lose a percentage of their graded
point values each class period that they are late according to schedule shown below (weekday = Monday through Friday):

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<tbody>
<tr>
<td>On Time</td>
<td>0%</td>
</tr>
<tr>
<td>Up to 1 weekday late:</td>
<td>10%</td>
</tr>
<tr>
<td>Up to 2 weekdays late:</td>
<td>30%</td>
</tr>
<tr>
<td>Up to 3 weekdays late:</td>
<td>60%</td>
</tr>
<tr>
<td>More than 3 weekdays late:</td>
<td>100%</td>
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**Withdrawal Policy**

Last day to Drop Course with a “W” **Tuesday, March 12**. No faculty or department head signatures are required to drop a class if you drop a class on or before this date.

**Incompletes**

A grade of "I" (Incomplete) will be assigned only in circumstances in agreement with the current NMSU Undergraduate Catalog (http://www.nmsu.edu/Academic_Progs/Undergraduate_Catalog/ch1/regulations.html).

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.

**Academic Misconduct**

All work submitted must by your original work. Any work done by groups of more that one (i.e. the work of two or more students is remarkably similar), or too similar to work of previous students will be construed as cheating. You work must be kept private from other; should your work appear I the work of another student, both parties will be considered to have cheated; both will receive a failing grade for the course. Please refer to the Student handbook dd for a full description of the NMSU policy.

Discussion of principles and approaches between class members is encouraged.

**Disabilities Statement**

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/

**Discrimination**
NMSU policy prohibits discrimination on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, retaliation, serious medical condition, sex, sexual orientation, spousal affiliation and protected veterans status. Furthermore, Title IX prohibits sex discrimination to include sexual misconduct, sexual violence, sexual harassment and retaliation. For more information on discrimination issues, Title IX or NMSU’s complaint process contact:

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

Professional Behavior Guidelines

Cell Phone: Please turn off your cell phone or set it to silent mode while you are in the class. Cell rings can disturb your classmates as well as me. Also, please limit the use of text messaging while in class.

Tardiness: Please arrive on time. If you are later than the start of the class, please quietly take a seat nearest the entrance.

Side Conversations: Side conversations make it difficult for your classmates to actively listen and learn.

Sleeping: falling asleep in class is not considered professional behavior.

Inattention: Please do not read other material (chat, browsing the web, books) or study for other courses during the class. It is not polite. Please pay attention and join in the individual and group discussions. It will help you master the material.

Miscellaneous Policies

• Although I will try to maintain the class schedule and objectives, I may need to make adjustments.
• I do not give additional projects to increase one’s grade before or after the exam(s).