COSC 3324.001: Object-Oriented Programming

MW 3:30-4:15  BH 112

COURSE INFORMATION:
Professor:  Mrs. Charlotte Busch  
Office:  CI 332; 361-825-2448
Office Hours:  T, R 11:00-12:00 and by appointment

email Address: charlotte.busch@tamucc.edu
website: http://www.sci.tamu.edu/~cbusch

CATALOG DESCRIPTION:
A study of concepts, terminology, and methodologies used in object-oriented systems, languages, and applications. Students will design and implement software systems using object-oriented analysis and design techniques. Prerequisite: COSC 2437. Fall, Spring.

COURSE DESCRIPTION:
The purpose of this course is to develop a thorough understanding of object-oriented (OO) design, systems, and applications. The lecture portion of the course will emphasize both OO design concepts and language specific applications. Programming assignments will provide students with experience in an object-oriented programming language, namely Java. Also, comparisons will be made to OO design concepts in C++.

PREREQUISITE FOR THE COURSE:
COSC 2437 Data Structures

INSTRUCTIONAL MATERIALS:
TEXT:  Java, How to Program (8th edition) by Deitel and Deitel
Optional:  Object Oriented Design & Patterns  by Cay Horstmann, 2nd edition

LEARNING OUTCOMES:
Upon successful completion of this course, students are able to:
1. demonstrate an understanding of object-oriented design and programming concepts.
2. demonstrate an understanding of the UML paradigm and use its diagrams.
3. demonstrate an understanding of basic Java classes and design structures
4. design and implement user-defined classes.
5. design and implement Java application programs.
6. design and implement Java applet programs.
7. design and implement Graphic User Interface and event-driven programs.

ASSESSMENT of LEARNING OUTCOMES:
Assessment of course outcomes will be conducted through exams and laboratory assignments.

EVALUATION AND GRADE ASSIGNMENT:
The semester grade will be determined by:
3 Exams & Final Exam (equally weighted)  -- 60%
Programming Assignments (approximately 13 - averaged)  -- 40%

Grading Scale: (will not exceed the following expectations)
90 ≤ A;  80 ≤ B ≤ 89;  70 ≤ C ≤ 79  60 ≤ D ≤ 69;  F ≤ 59

GRADE APPEAL PROCESS:
As stated in University Rule 13.02.99.C2, Student Grade Appeals, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Rule

13.02.99.C2, Student Grade Appeals, and University Procedure 13.02.99.C2.01, Student
Grade Appeal Procedures. These documents are accessible through the University Rules
Web site at http://www.tamu-edu/provost/university_rules/index.html. For assistance and/or guidance in the grade
appeal process, students may contact the Office of Student Affairs.

DISABILITY POLICY:
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil
rights protection for persons with disabilities. Among other things, this legislation requires that all students with
disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If
you believe you have a disability requiring an accommodation, please call or visit Disability Services at (361) 825-
5816 in Corpus Christi Hall 116.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on
campus, please contact the Disability Services office for assistance at (361) 825-5816.

ACADEMIC ADVISING:
The College of Science and Engineering requires that students meet with an Academic Advisor as soon as they are
ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a
faculty mentor, and the department chair. The Computer Science Academic Advisor is located in CI 361, and can be
reached at 825-5777.

ACADEMIC INTEGRITY/PLAGIARISM
University students are expected to conduct themselves in accordance with the highest standards of academic
honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as
illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism.
(Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or
 complicity in an act of academic misconduct on an assignment or test will result in penalties ranging from
reduced credit to an “F” in the course.

DROPPING A CLASS
I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that
make dropping a course necessary or wise. Please consult with me before you decide to drop to be sure it is the
best thing to do. Should dropping the course be the best course of action, you must initiate the process to drop
the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance
and participation WILL NOT automatically result in your being dropped from the class. April 1st is the last day
to drop a class with an automatic grade of “W” this term.

CLASSROOM/PROFESSIONAL BEHAVIOR
Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of
others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom
behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to
profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction
outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed
to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic
classrooms, labs, discussion groups, field trips, etc.

ADDITIONAL EXPECTATIONS:
You will receive a zero for an exam unless you have a valid excuse for missing the exam and have made
arrangements with me for a make-up exam prior to the exam time.

The programming assignments must be turned in on the due date/time; otherwise credit for the assignment will be
reduced. Assignments will not be accepted more than two days late unless an extended due date is announced. No
assignments will be accepted after the last class day. Laboratory assistants are available in CI 347.

Please turn cell phones OFF during class.
Note: Any adjustments or corrections to the syllabus or schedule will be announced in class. It is the student’s responsibility to obtain this information.

**TENTATIVE COURSE SCHEDULE:**

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<th>Wk</th>
<th>Date</th>
<th>Lecture/Topic</th>
<th>Labs – Due next week</th>
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<tr>
<td>1</td>
<td>W 1/11</td>
<td>Object Oriented Programming &amp; Design</td>
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<td>M 1/16</td>
<td>HOLIDAY</td>
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<td></td>
<td>W 1/18</td>
<td>Ch 1 &amp; Ch 2: The internet; Java Applications</td>
<td>Lab 1</td>
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<tr>
<td>3</td>
<td>M 1/23</td>
<td>Ch 3: Classes &amp; Objects</td>
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<td></td>
<td>W 1/25</td>
<td>Ch 4,5: Control Statements</td>
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<td>4</td>
<td>M 1/30</td>
<td>Ch 6: Class Properties; Ch 7: Arrays</td>
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<td>W 2/1</td>
<td>Ch 8: Classes &amp; Objects</td>
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<td>5</td>
<td>M 2/6</td>
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<td>Ch 14: GUI Components: Part 1</td>
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<td>Ch 14: GUI Components: Part 1</td>
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<td>SPRING BREAK Mar 12-16</td>
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<td>11</td>
<td>M 3/21</td>
<td>Ch 15: Graphics</td>
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<td>M 3/26</td>
<td>Ch 16: Strings</td>
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<td>W 3/28</td>
<td>Ch 16: Strings</td>
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<td>W 4/23</td>
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<td>17</td>
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<td>17</td>
<td>M 5/7</td>
<td>FINAL EXAM: MONDAY 5/7 1:45-4:15</td>
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