USF Sarasota-Manatee College of Hospitality and Technology Leadership
COP 2250, Section 591–3 Credit Hours
Object-Oriented Programming (Java SE)
Spring 2015, USF Sarasota-Manatee

Instructor: Jonilda Bahja
E-Mail: jonildabahja@usf.edu
Mobile: (941)-735-5943

Class: A221 [Online & face-to-face]
Time: Monday 2:00-4:45 PM

Office Hours: Thursday 5:00-6:00 PM [Cubic office in front of A313]

Best way to contact:
- Meeting during the office hours.
- Via email. Course-related email should be sent from CANVAS only. Email from CANVAS is flagged by Course Number and is easier to spot and respond to.
- By appointment! We can meet face-to-face at campus or we can meet one-on-one or in small groups via specially scheduled Collaborate/Skype sessions.

PREREQUISITES: Consult your Advisor for the latest prerequisites.

COURSE DESCRIPTION: The focus of this course is object-oriented programming concepts as implemented in the target language Java. This course uses a specially designed Integrated Development Environment (BlueJ) that enables students to directly create objects of any class and then interact with their methods.

COURSE TOPICS: This course will cover the following content areas:

1. Objects and Classes
2. Understanding Class Definitions
3. Object Interaction
4. Grouping Objects
5. More Sophisticated Behavior
6. Designing Classes
7. Well-Behaved Objects
8. Improving Structure with Inheritance
9. More about Inheritance
10. Further Abstraction Techniques
11. Building GUI
12. Handling Errors
13. Designing Applications
COURSE OBJECTIVES: This course seeks to impart a clear understanding of OOP and its implementation in Java by way of a hands-on approach using focused development projects.

LEARNING OUTCOMES: On completion of this course students will:
   a) Clearly understand the most fundamental concepts of object orientation: objects, classes, and methods.
   b) Understand how Java code is written to create the behavior of objects.
   c) Understand the interaction of multiple objects, that is, how objects can collaborate by invoking each other's methods to perform a common task.

TEXT AND MATERIALS: Required Textbook

Objects First with Java, A practical Introduction using BlueJ, 5th Edition
David Barnes and Michael Kolling
ISBN-10: 0-13-249266-0
@2012, Prentice Hall Spiral Bound

Or you may get the eTextbook (Click here), which is cheaper and gives you access to:

Companion Website: A companion website is an online resource which often offers options for self-testing and exploration, such as interactive quizzes, interactive maps, additional images, links to related websites, and more.

Downloadable Files: Downloadable files are electronic files that may include additional eTextbook content, practice activities, quizzes, media content, and more.

Access-Protected Website: This is a password-protected website with online resources that may include interactive quizzes, interactive maps, additional images, links to related websites, and more. After purchasing the eTextbook, an access code is provided which you can use to access all of the materials available on the website.

In addition, articles, videos, and websites will be shared from time to time as part of the course material.

Note: Students have to join the social media page of the IT Department for future announcements, events, internships, job positions, videos, tutorials and different materials related to their area. www.facebook.com/usfsmIT

Attendance Policy:
This class will be of blended nature, face-to-face sessions will be held in Sarasota campus in room A221, those sessions will also be broadcasted live, and will be available for students to attend offline at their convenience. Students are strongly encouraged to attend the face-to-face
sessions at least twice in all the semester. In addition all students are also required to attend IT Matters that will be given by a guest lecturer, an early notice will be given to students before to help them plan accordingly. Penalty for not attending the IT Matters event could have a 10% impact on the final grade. With the above exceptions, class attendance is optional but it’s strongly advised to attend the live sessions.

**Note:** Exceptions for the attendance rules will be given at an individual basis in coordination with the instructor for students who live in a distant location from Sarasota, and they will be required to complete other assignments to make up for the participation grade. Due to the highly interactive nature of the course and its subject matter, students are strongly encouraged to keep up with the class and to submit assignments in time. Falling behind in assignments will affect students’ grades.

**Intellectual Property Policy:** Students are not permitted to take notes or tape lectures for the purpose of sale. This includes the recordings as well.

**Special Needs:** If anyone has a disability or special needs or other problem that warrants need for special accommodations to complete course work, please see the instructor as soon as possible.

**Religious Observances:** Students who anticipate being absent from class due to the observation of major religious holidays can do so after providing written notice of the date(s) to the instructor by the second class meeting.

**Performance Evaluation and Grading:**
The relative weights for each of these components in determining the final grade are as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Assignments</td>
<td>55%</td>
</tr>
<tr>
<td>2 Tests (midterm &amp; final)</td>
<td>35%</td>
</tr>
<tr>
<td>In-class and online participation</td>
<td>10%</td>
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<tr>
<td>Total</td>
<td>100%</td>
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</tbody>
</table>

A grade will be determined based on the total of possible points earned: A 90-100; B 80-89; C 70-79; D 60-69; F 0-59. More granularity with +s and –s will also be part of the final grade.

**GRADING POLICY**

Your grade in this course will depend on the following:

**Assignments:** Every week there will be different assignments respectively to the chapters. All assignments are expected to be turned in on time. Late submission penalty is 10% reduction of the assignment grade. Each assignment will be reviewed in class after the Due Date, and once it has been reviewed, late hand-ins will not be graded.

**Two exams.** The exams are not cumulative - each covers only the topics indicated, although an understanding of earlier material may be a practical necessity for understanding and solving problems on new material. There will be no makeup exams! Exceptions on medical grounds will require a doctor’s letter which will be verified by the appropriate department personnel.
**Class Attendance:** Even though the sessions are recorded for review, it is my observation that final course grades tend to be positively correlated with regular class attendance, even in the absence of any credit for attendance. Understanding of the material is best gained through a combination of exposures to the material, of which course lecture is an important and key component. In any event, you are responsible for the material covered in class, any announcements, schedule changes, etc. Absenteeism is not an excuse for late work or missed exams unless approval from your instructor is obtained in advance.

**Extra Credit:** An assignment or two, or other activities may have an extra credit component associated with them. Points earned in this manner will be not included in the assignment or exam grade or in the final course average. These will be considered after course letter grades have been tentatively assigned. Extra credit may result in an increase in your final letter grade, especially in borderline situations, and will never reduce your grade. For this reason, you should take full advantage of extra credit opportunities.

**Incomplete Grade:** An Incomplete grade in the course is reserved for those with good reason for having missed a small amount of work, and are agreed to by the student and instructor during the course, as circumstances require. Otherwise, exams not taken or assignments not turned in will receive a zero for that grade, and the course grade assigned accordingly. Please note, it is the student’s responsibility to ensure the work is completed before the end of the following semester and the Incomplete changed to a regular grade. If this is not done before the end of the following semester, the Incomplete automatically becomes an F!

**STATEMENT ON ACADEMIC HONESTY**
The instructor of this course trusts that all students behave in strict compliance with accepted standards of academic honesty. A conscious effort is made to ensure that grading standards are fair, and that anyone who makes an honest and consistent attempt to do well in the course will succeed, as, by this time in your degree program, it is expected that you are capable of doing the work. There will be no tolerance for anyone who attempts to "succeed" by dishonest routes. Academic honesty includes, but is not limited to:

- Honesty in taking examinations.
- Honesty in completing your assignments yourself. There is no objection to some degree of helpful collaboration in completion of assignments; often a rough spot can be overcome with a helpful word. But assignments passed in for grading must be substantially one person's - the submitter's - work. Please note that in many of the assignments for this course, it will be fairly obvious to the instructor when students have collaborated beyond a reasonable degree (having exactly the same wrong answer, for example, is usually a dead giveaway).
- Honesty in attributing others' work. In all submitted work, including papers and presentations, ideas, concepts and quotations obtained from other persons' works must be properly attributed. Not doing so constitutes theft of intellectual property.

Consequences for violating this trust will be severe. Credit will not be given for any work that does not meet the above criteria. In an extreme violation or repeated violations, a failing grade in the course for reasons of academic dishonesty is an appropriate and reasonable penalty.
**Academic Dishonesty:** In accordance with university guidelines as found in the Student Handbook, anyone found cheating during exams, submitting work that is not theirs, plagiarizing or falsifying work that is submitted to represent work they have done shall receive an “F” with numerical value of zero on the item submitted, and the “F” shall be used to determine the final course grade. It is the option of the instructor to assign the student a grade of “F” or “FF” (the latter indicating dishonest) in the course. The instructor may use the “Turnitin.com” software to access potential plagiarism and precise obligation to reference all materials taken from electronic sources.

**EMERGENCY PROCEDURES**
In the event of an emergency, it may be necessary for USF to suspend normal operations. During this time, USF may opt to continue delivery of instruction through methods that include but are not limited to: CANVAS, Skype, and email messaging and/or an alternate schedule. It’s the responsibility of the student to monitor CANVAS for each class for course specific communication, and the main USF, College, and department websites, emails, and MoBull messages for important general information.

**STUDENT WELLNESS**
The Counseling and Wellness Center is a confidential resource where you can talk about incidents of sexual harassment and gender-based crimes including sexual assault, stalking, and domestic/relationship violence. You can receive assistance in confidence. This confidential resource can help you without having to report your situation to the Office of Student Rights and Responsibilities (OSSR) or the Office of Diversity, Inclusion, and Equal Opportunity (DIEO); unless you request that they make a report. Please be aware that educators must report incidents of sexual harassment and gender-based crimes including sexual assault, stalking, and domestic/relationship violence. If you disclose any of these situations in class, in papers, or to me personally, I am required to report it to OSSR or DIEO for investigation. The Deputy Coordinator for USFSM is Mary Beth Wallace, AVP for Student Enrollment, Engagement and Success, 941-359-4330 or marybeth@sar.usf.edu. Other number and resources:
- Counseling Center and Wellness Center 941-487-4254
- Victim Advocate (24/7) 941-504-8599

**List of off-campus resources:**
- Hope of Manatee: 941-755-6805
- Safe Place & Rape Crisis Center (SPARCC) – Sarasota: 941-365-1976
- First Call for Help- Manatee: 941-708-6488 -Sarasota & North Port 941-366-5025
- Manatee Glens: 941-782-4800

**Classes Schedule**

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<thead>
<tr>
<th>Date</th>
<th>Module</th>
<th>Assignment</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>01/05</td>
<td>Chapter 1 – Objects and Classes</td>
<td>Assignment 0 &amp; Assignment 1</td>
<td>01/10</td>
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<td>01/12</td>
<td>Chapter 2 - Understanding Class Definitions</td>
<td>Assignment 2</td>
<td>01/17</td>
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<tr>
<td>Date</td>
<td>Event</td>
<td>Notes</td>
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<td>01/19</td>
<td><strong>Martin Luther King Day</strong> (no class)</td>
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<tr>
<td>01/26</td>
<td>Chapter 3 - Object interaction</td>
<td>Assignment 3, 01/31</td>
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<td>02/02</td>
<td>Chapter 4 - Grouping objects</td>
<td>Assignment 4, 02/07</td>
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<td>02/09</td>
<td>Chapter 5 - More-sophisticated behavior</td>
<td>Assignment 5, 02/14</td>
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<td>02/16</td>
<td>Chapter 6 - Designing classes</td>
<td>Assignment 6, 02/21</td>
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<td>02/23</td>
<td>Chapter 7 - Well-behaved objects</td>
<td>Assignment 7, 02/28</td>
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<td>03/02</td>
<td>Mid-Term exam</td>
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<td>03/09</td>
<td>Spring Breaks (no class)</td>
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<tr>
<td>03/16</td>
<td>Chapter 8 - Improving structure with</td>
<td>Assignment 8, 03/21</td>
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<td>inheritance</td>
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<tr>
<td>03/23</td>
<td>Chapter 9 - More about inheritance</td>
<td>Assignment 9, 03/28</td>
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<td>03/30</td>
<td>Chapter 10 Further abstraction techniques</td>
<td>Assignment 10, 04/04</td>
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<td>04/06</td>
<td>Chapter 11 - Building graphical user</td>
<td>Assignment 11, 04/11</td>
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<td>interfaces</td>
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<td>04/13</td>
<td>Chapter 12 – Error Handling</td>
<td>Assignment 12, 04/18</td>
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<td>04/20</td>
<td>Chapter 13 – Designing applications</td>
<td>Assignment 13, 04/25</td>
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<tr>
<td>04/27</td>
<td>Final Exam</td>
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There might be any shifting due to length and difficulty of subject matter. The tests could also shift either way by a week or so.