Instructor: Patricia Roy

Classroom: Virtual class via Blackboard Collaborate

E-Mail: PatriciaRoy@mail.usf.edu

Time: Monday, 3 pm

Office: online

Office Telephone: none

Office Hours: by appointment

PREREQUISITES: COP 2250

COURSE DESCRIPTION: This course focuses on the use of the Eclipse IDE for developing Java applications. Students will also learn how to take advantage of the plug-in architecture of Eclipse.

COURSE TOPICS:
This course will cover the following content areas:
1. Setting up Eclipse for Java programming
2. WindowBuilder
3. Refactoring
4. JUnit
5. EGit
6. Tomcat
7. Glassfish
8. Web Services
9. Setting up Eclipse for Python programming
10. Maven
11. Android
12. Spring
13. Grails
14. Struts

COURSE OBJECTIVES: The course covers the Eclipse IDE. It covers the following topics: Eclipse workbench, debugging, refactoring, using servers in Eclipse, web services, and using other frameworks in Eclipse.

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY MISSION STATEMENT: The mission of the Information Technology Program is to provide high quality educational opportunities for students interested in pursuing careers in the broad range of fields that support our computer/information-based society and economy. Additionally, the goal is to utilize the resources of the program to provide service to society; and to emphasize to students the need for lifelong learning, to have ethical conduct, and an understanding of the diverse social context in which Information Technology is practiced.
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY PROGRAM

LEARNING OUTCOMES (PLOs):

1. Demonstrate technical knowledge and skill sets (computational and analytic) needed for success in careers related to Information Technology.
2. Demonstrate an understanding of professional ethics in the development and application of Information Technology.
3. Design and develop computer processes and systems of advanced complexity.
4. Assess the potential value of new technologies and see possibly beneficial applications.
5. Conduct computer research, organize a structured presentation, and deliver it in a way that communicates to novice users as well as computer experts.

COURSE STUDENT LEARNING OUTCOMES:

Upon completion of this course, students will be able to:

1. Use the Eclipse Workbench
2. Write and run Java applications
3. Use Eclipse for debugging Java code
4. Use Eclipse as an aid to refactoring Java code
5. Write GUIs using Eclipse
6. Design and execute unit testing using JUnit
7. Apply team support through the IDE
8. Find, install, and use plug-ins (not just for Java)
9. Develop Java Web Services
10. Use Struts to develop the presentation side of a Web application
11. Use the Eclipse plug-in architecture, including how to develop and implement plug-ins.
12. Write and run Python applications

TEXT AND MATERIALS

A. Required Text:
   No text is required

GRADING, EVALUATION AND ATTENDANCE POLICIES:

Synchronous class attendance is optional. Nevertheless, students are responsible for all of the material discussed in class. If you cannot attend class synchronously, then you must view the recording of the class session in a timely manner. Note that the course moves through the material at a rapid pace, and each topic builds on the ones that preceded it.

Student performance will be evaluated based on weekly programming assignments and a final project submitted to the Instructor via Canvas.

Each exercise will be graded out of a maximum value of twenty (20) points. The final grade will be based on the total score of the grades (normalized to a percentage).

A grade will be determined based on the total of possible points earned, as follows: A 90-100; B 80-89; C 70-79; D 60-69; F 0-59.
Extra Credit
There will be no extra credit.

Incomplete Grade
An Incomplete grade is reserved for those with good reason for having missed a small amount of work, and must be agreed by the student and instructor during the course as circumstances require. Otherwise, exams not taken or assignments not turned in will receive a zero grade and will be counted in the final grade accordingly. Please note that it is the student’s responsibility to ensure that 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. A grade of I (incomplete) will only be given in extreme circumstances with documented proof for this grade. A student must have a grade of 70% or better for an incomplete.

Attendance Policy
CLASS ATTENDANCE IS OPTIONAL. Attendance is automatically recorded by Blackboard Collaborate. Due to the highly interactive nature of the course and its subject matter, students are strongly encouraged to attend the live sessions. Material covered in class will not necessarily be contained in the textbook. Falling behind in assignments will affect students’ grades. Students are responsible for 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. Sessions are recorded and will be made available to students after the class.

The last day to drop a course with a grade of “W” is March 22, 2014. There will be no refund and no academic penalty.
USFSM Policies

A. **Academic Dishonesty**: The University considers any form of plagiarism or cheating on exams, projects, or papers to be unacceptable behavior. Please be sure to review the university’s policy in the catalog, [USFSM Undergraduate Catalog](#) or [USFSM Graduate Catalog](#), the USF System Academic Integrity of Students, and the [USF System Student Code of Conduct](#).

B. **Academic Disruption**: The University does not tolerate behavior that disrupts the learning process. The policy for addressing academic disruption is included with Academic Dishonesty in the catalog: [USFSM Undergraduate Catalog](#) or [USFSM Graduate Catalog](#), USF System Academic Integrity of Students, and the [USF System Student Code of Conduct](#).

C. **Contingency Plans**: In the event of an emergency, it may be necessary for USFSM to suspend normal operations. During this time, USFSM may opt to continue delivery of instruction through methods that include but are not limited to: CANVAS, Blackboard Collaborate, Skype, and email messaging and/or an alternate schedule. It’s the responsibility of the student to monitor CANVAS site for each class for course specific communication, and the main USFSM and College websites, emails, and MoBull messages for important general information. The USF hotline at 1 (800) 992-4231 is updated with pre-recorded information during an emergency. See the [Safety Preparedness Website](#) for further information.

D. **Disabilities Accommodation**: Students are responsible for registering with the Office of Students with Disabilities Services (SDS) in order to receive academic accommodations. Reasonable notice must be given to the SDS office (typically 5 working days) for accommodations to be arranged. It is the responsibility of the student to provide each instructor with a copy of the official Memo of Accommodation. Contact Information: Disability Coordinator, 941-359-4714, disabilityservices@sar.usf.edu; [http://www.usfsm.edu/students/disability](http://www.usfsm.edu/students/disability).

E. **Fire Alarm Instructions**: At the beginning of each semester please note the emergency exit maps posted in each classroom. These signs are marked with the primary evacuation route (red) and secondary evacuation route (orange) in case the building needs to be evacuated. See [Emergency Evacuation Procedures](#).

F. **Religious Observances**: USFSM recognizes the right of students and faculty to observe major religious holidays. Students who anticipate the necessity of being absent from class for a major religious observance must provide notice of the date(s) to the instructor, in writing, by the second week of classes. Instructors canceling class for a religious observance should have this stated in the syllabus with an appropriate alternative assignment.

G. **Web Portal Information**: Every newly enrolled USF student receives an official USF e-mail account. Students receive official USF correspondence and CANVAS course information via that address.

**GENERAL INSTRUCTION FOR STUDENTS**
Students are not permitted to take notes or tape lectures for the purpose of sale. This includes Blackboard Collaborate recordings.

Microsoft Office may be used to supplement this course. The online course tools package, which may be accessed from campus computer labs and via the Internet at https://my.usf.edu, will be used to enhance the course. Internet access and a reasonable up-to-date web browser are required. Except for response speed, there should be no difference in functionality between accessing from a lab and from home. Any exceptions to this will be announced as they become apparent.

NOTE:
The instructor reserves the right to make adjustments to this syllabus as necessary.
**COURSE SCHEDULE:** Please note this is a tentative schedule – some shifting could occur as we progress into the semester.

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<th>Topic</th>
<th>Assignment Due</th>
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<td>Class Introductions&lt;br&gt;Syllabus Review&lt;br&gt;Topic: Eclipse Workbench</td>
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<tr>
<td>Week 2</td>
<td>Topic: Refactoring and Window Builder</td>
<td>Assignment 1</td>
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<td>Week 3</td>
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