 Pellissippi State Community College  
 Master Syllabus  

Enterprise Java Programming  
CSIT 2655  

Class Hours: 3.0  
Credit Hours: 4.0  
Laboratory Hours: 3.0  
Revised: Fall 07  

NOTE: This course is not designed for transfer credit.  

Catalog Course Description:  
A continued examination of Java programming including servlets, Java server pages, Corba and Enterprise JavaBeans. The course will use case studies. A team project is required.  

Entry Level Standards:  
The entering student should have a familiarity with the DOS and Windows operating systems and should be competent in at least one high-level programming language. The student must have a student general user account and knowledge of its use. An elementary knowledge of Unix would be helpful.  

Prerequisites:  
CSIT 1520; or department approval  

Textbook(s) and Other Course Materials:  

I. Week/Unit/Topic Basis:  

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<th>Week</th>
<th>Topic</th>
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<tr>
<td>1</td>
<td>Introduction and Project Overview</td>
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<td>2</td>
<td>Internationalization</td>
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<td>3</td>
<td>Java Beans and Bean Events</td>
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<td>4</td>
<td>Containers; Layout Managers and Borders</td>
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<td>5</td>
<td>Menus, toolbars, Dialogs, and Internal Frames</td>
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<td>6</td>
<td>MVC and Swing Models</td>
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<td>7</td>
<td>JTable and JTree</td>
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<td>8</td>
<td>Accessing Databases with JDBC</td>
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<td>9</td>
<td>Advanced Java Database Programming</td>
</tr>
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<td>10</td>
<td>Java Servlets</td>
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II. Course Objectives*:

A. Use advanced GUI programming concepts of the Java language. I, III, IV, VI, VII, VIII, IX, XI, XII

B. Use web programming concepts and tools. I, III, V, VI, VII, IX, X, XI

C. Use search tools, inquiries, Email and other available resources found on the Internet to locate, use, download, upload and communicate effectively. II, III, IV

D. Write software that meet specification requirements and pass tests based on these requirements. II, III, IV, VII

E. Demonstrate individual and teamwork standards compliance to accomplish given tasks within timeframes established. I

F. Develop an environment that serves customer and or market needs. V, VII, IX, X, XII

G. Write Java programs to solve a wide variety of problems. II, III, IV, VI, VII, VIII, IX, XI, XII

H. Implement object-oriented software design techniques. II, III, VI, VII, IX, XI, XII

*Roman numerals after course objectives reference goals of the CSIT program.

III. Instructional Processes*:

Students will:

1. Produce advanced graphical user interfaces and web-enabled Java applications. *Mathematics Outcome, Technological Literacy Outcome, Active Learning Strategies*

2. Produce a fully working end-product as part of a collaborative effort for sharing with other class members. *Communication Outcome, Transitional Strategies, Active Learning Strategies*

3. Use the Internet as a medium for obtaining documentation and instruction. *Communication Outcome, Technological Literacy Outcome, Transitional Strategies*

4. Develop and design software product meeting given specifications. *Communication Outcome, Technological Literacy Outcome, Mathematics Outcome, Transitional Strategies, Active Learning Strategies*

5. Use professional tools to produce software components and documentation. *Technological*
Literacy Outcome, Transitional Strategies, Active Learning Strategies

6. Practice elements of the work ethic such as punctuality, professionalism, dependability, cooperation, and contribution. Communication Outcome, Active Learning Strategies

7. Participate in a peer review of term projects. Communication Outcome, Transitional Strategies, Active Learning Strategies

8. Use professionally accepted methods and materials in completion of program development. Technological Literacy Outcome, Transitional Strategies, Active Learning Strategies

*Strategies and outcomes listed after instructional processes reference Pellissippi State’s goals for strengthening general education knowledge and skills, connecting coursework to experiences beyond the classroom, and encouraging students to take active and responsible roles in the educational process.

IV. Expectations for Student Performance*:

Upon successful completion of this course, the student should be able to:

1. Use advanced Swing and AWT components for GUI design. A, G
2. Use Java servlets and Java Server Pages. A< B< C
3. Use Java development and database access tools prevalent in the industry. A, B, C
4. Use JavaBeans and GUI components to perform specific tasks. C, E, F
5. Find resources and information to perform specific tasks. C, D, E
6. Use web pages and search tools effectively. D, E, F
7. Use communication tools effectively. D, E, F
8. Show effective operational use of available utilities, products, software and hardware. C, D, E
9. Produce applications, documentation, sources of information, and tests in a timely, well organized manner. C, D, E

*Letters after performance expectations reference the course objectives listed above.

V. Evaluation:

A. Testing Procedures:

At least 4 tests will be given. Tests may only be made up for excused absences. An excused absence is one that can be verified by supporting documentation. Failure to make a passing quiz average will result in a grade of F for the course.

B. Laboratory Expectations:

At least 3 project assignments will be given during the course of the semester. At least 1 project or project part will be a team project which includes at least one presentation. Failure to make a passing project average will result in a grade of F for the course.
C. Field Work:

N/A

D. Other Evaluation Methods:

N/A

E. Grading Scale:

93 - 100 A  
88 - 92 B+  
83 - 87 B  
78 - 82 C+  
73 - 77 C  
65 - 72 D  
Below 65 F

VI. Policies:

A. Attendance Policy:

Pellissippi State Technical Community College expects students to attend all scheduled instructional activities. As a minimum, students in all courses must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course (Pellissippi State Catalog).

B. Academic Dishonesty:

Plagiarism, cheating and other forms of academic dishonesty are prohibited. A student guilty of academic misconduct, either directly or indirectly through participation or assistance, is immediately responsible to the instructor of the class. In addition to other possible disciplinary sanctions that may be imposed through the regular Pellissippi State procedures as a result of academic misconduct, the instructor has the authority to assign an F or a zero for the exercise or examination or to assign an F in the course. (Pellissippi State Online Catalog)

C. Accommodations for disabilities:

If you need accommodations because of a disability, if you have emergency medical information to share, or if you need special arrangements in case the building must be evacuated, please inform the instructor immediately. Please see the instructor privately after class or in his/her office. Students must present a current accommodation plan from a staff member in Services for Students with Disabilities (SSWD) in order to receive accommodations in this course. Services for Students with Disabilities may be contacted by going to Goins 127 or 131 or by phone: 694-6751(Voice/TTY) or 539-7153.

D. Other:

College-owned or-operated computing resources are provided for use by students of Pellissippi State. All students are responsible for the usage of Pellissippi State’s computing resources in an effective, efficient, ethical and lawful manner. (Pellissippi State Online Catalog)

In the event that you have an emergency beyond your control, you must notify the instructor as soon as possible.