PELLISSIPPI STATE COMMUNITY COLLEGE
MASTER SYLLABUS

INTERMEDIATE JAVA PROGRAMMING
CSIT 1520

Class Hours: 3.0
Laboratory Hours: 3.0

Credit Hours: 4.0
Date Revised: Fall 2012

Catalog Course Description:

A study in Java language techniques beyond the introductory course. Emphasis will include object-oriented design, arrays, GUI and event-driven programming, exceptions, and Java packages for collections, file I/O and database connectivity.

Entry Level Standards:

The entering student should have familiarity with the Java programming language and a Java IDE. The student should be able to write Java classes and use them in applications.

Prerequisites:

CSIT 1510 or Java programming experience

Textbook(s) and Other Course Materials:


I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>CSIT 1510 competency review</td>
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<tr>
<td>2</td>
<td>CSIT 1510 competency review</td>
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<tr>
<td>3</td>
<td>Strings and Text I/O</td>
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<td>4</td>
<td>Thinking in Objects</td>
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<tr>
<td>5</td>
<td>Inheritance and Polymorphism</td>
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<tr>
<td>6</td>
<td>GUI Basics (including Frames, Layout Managers, Panels)</td>
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<td>7</td>
<td>Graphics, Event-Driven Programming</td>
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<tr>
<td>8</td>
<td>Event-Driven Programming</td>
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<td>9</td>
<td>Creating GUI Interfaces</td>
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<tr>
<td>10</td>
<td>Menus; Mouse Events</td>
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<tr>
<td>11</td>
<td>Applets and Multimedia</td>
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<tr>
<td>12</td>
<td>Exceptions; Abstract Classes and Interfaces</td>
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<tr>
<td>13</td>
<td>Java Database Programming</td>
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II. Course Goals*:

The course will:

A. Become familiar with the higher-level, object-oriented functionality of the Java programming language. II, III, V

B. Create fairly complex event-driven, GUI Java applications and applets. II, III, IV, V

C. Reinforce good programming habits introduced in earlier course(s). II, III, IV, V

D. Use professionally accepted methods and materials in completion of projects. I, II, III, IV, V

E. Require students to practice elements of the work ethic such as punctuality, professionalism, dependability, cooperation, and contribution. I

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

III. Expected Student Learning Outcomes*:

Students will be able to:

1. Use a Java IDE. (B, C, D, E)

2. Create and use Java packages (A, B, C)

3. Create and use Java classes. (A, B, C)

4. Create and use interfaces and abstract, final and anonymous classes (A, B)

5. Use Java GUI components, their events and layout managers (A, B)

6. Throw and catch exceptions (A, B)

7. Use Java collection, file I/O and database connectivity packages (A, B)

8. Use JDBC to connect to and query a database (A, B)

9. Create and use Java applets and application (A, B, C, E)

* Capital letters after Expected Student Learning Outcomes reference the course goals listed above.

IV. Evaluation:

A. Testing Procedures: at least 40% of grade

   At least two tests will be given. Failure to make a passing exam average will result in a grade of F for the course.

B. Laboratory Expectations: at least 40% of grade

   At least 4 labs will be given. Failure to make a passing lab average will result in a grade of F for the course.

C. Field Work:

   None.
D. Other Evaluation Methods

As indicated in the instructor’s syllabus supplement. The remaining 20% of the student grade at the discretion of the instructor

E. Grading Scale:

A: 93 – 100; B+: 88 – 92; B: 83 – 87; C+: 78 – 82; C: 73 – 77; D: 65 – 72; F: below 65

V. Policies:

A. Attendance Policy:

Pellissippi State expects students to attend all scheduled instructional activities. As a minimum, students in all courses (excluding distance learning courses) must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course. Individual departments/programs/disciplines, with the approval of the vice president of Academic Affairs, may have requirements that are more stringent. In very specific circumstances, an appeal of the policy may be addressed to the head of the department in which the course was taken. If further action is warranted, the appeal may be addressed to the vice president of Academic Affairs.

B. Academic Misconduct:

Academic misconduct committed either directly or indirectly by an individual or group is subject to disciplinary action. Prohibited activities include but are not limited to the following practices:

• Cheating, including but not limited to unauthorized assistance from material, people, or devices when taking a test, quiz, or examination; writing papers or reports; solving problems; or completing academic assignments.
• Plagiarism, including but not limited to paraphrasing, summarizing, or directly quoting published or unpublished work of another person, including online or computerized services, without proper documentation of the original source.
• Purchasing or otherwise obtaining prewritten essays, research papers, or materials prepared by another person or agency that sells term papers or other academic materials to be presented as one’s own work.
• Taking an exam for another student.
• Providing others with information and/or answers regarding exams, quizzes, homework or other classroom assignments unless explicitly authorized by the instructor.
• Any of the above occurring within the Web or distance learning environment.

Please see the Pellissippi State Policies and Procedures Manual, Policy 04:02:00 Academic/Classroom Conduct and Disciplinary Sanctions for the complete policy.

C. Accommodations for Disabilities:

Students who need accommodations because of a disability, have emergency medical information to share, or need special arrangements in case the building must be evacuated should inform the instructor immediately, privately after class or in her or his 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, 132, 134, 135, 131 or by phone: 539-7153 or TTY 694-6429. More information is available at http://www.pstcc.edu/sswd/.

D. Other Policies:

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.

Students are expected to promptly attend all lecture and lab classes as assigned. If a class is missed, student must make up all work and get notes and/or handouts