PELLISSIPPI STATE COMMUNITY COLLEGE
MASTER SYLLABUS

INTERMEDIATE JAVA PROGRAMMING
CSIT 1520

Class Hours: 3.0 Credit Hours: 4.0
Laboratory Hours: 3.0 Date Revised: Spring 2016

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>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CSIT 1510 competency review</td>
</tr>
<tr>
<td>2</td>
<td>CSIT 1510 competency review</td>
</tr>
<tr>
<td>3</td>
<td>Chapter 9, Objects and Classes</td>
</tr>
<tr>
<td>4</td>
<td>Chapter 10, Object-Oriented Thinking</td>
</tr>
<tr>
<td>5</td>
<td>Chapter 11, Inheritance and Polymorphism</td>
</tr>
<tr>
<td>6</td>
<td>Chapter 12, Exception Handling and Text I/O</td>
</tr>
<tr>
<td>7</td>
<td>Chapter 13, Abstract Classes and Interfaces</td>
</tr>
<tr>
<td>8</td>
<td>Chapter 14, JavaFX Basics</td>
</tr>
<tr>
<td>9</td>
<td>Chapter 15, Event-Driven Programming and Animations</td>
</tr>
<tr>
<td>10</td>
<td>Chapter 16, JavaFX UI Controls and Multimedia</td>
</tr>
<tr>
<td>11</td>
<td>Chapter 34, Advanced GUI Programming</td>
</tr>
<tr>
<td>12</td>
<td>Chapter 19, Generics</td>
</tr>
<tr>
<td>13</td>
<td>Chapter 32, Java Database Programming</td>
</tr>
</tbody>
</table>
II. Course Goals*:

The course will:

A. Familiarize students with the higher-level, object-oriented functionality of the Java programming language. (II, III, V)

B. Require students to 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 JavaFX (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 and/or quizzes 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 that 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 Disability Services (DS) in order to receive accommodations in this course. Disability Services may be contacted by sending email to disabilityservices@pstcc.edu, or by visiting Alexander 130. More information is available at http://www.pstcc.edu/sswd/.

D. Other Policies:

See instructor syllabus addendum.