PELLISSIPPI STATE COMMUNITY COLLEGE
MASTER SYLLABUS

VISUAL BASIC PROGRAMMING
CSIT 2210

Class Hours: 2.0  Credit Hours: 3.0
Laboratory Hours: 2.0  Revised: Spring 2015

Catalog Course Description:
A study of Windows graphic interface development through the learning and hands-on application of Visual BASIC programming language. The learner will develop, design, code and test graphic sessions, images, windows, mouse selections, data usage and image movements to produce client-based working programs. Emphasis will be on code creation, sound programming practice, window control and graphic design. Development of working client-based products is essential to the completion of this course.

Entry Level Standards:
The student must have sufficient math and computer literacy background to analyze problems logically. The student should have previous programming experience and knowledge of Windows and PC usage.

Prerequisites:
One programming course

Textbook(s) and Other Course Materials:

I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapter</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1-3</td>
<td>An Introduction to Visual Basic 2012, Variable conversions</td>
</tr>
<tr>
<td>2</td>
<td>4-7</td>
<td>Tool Box, Using Variables and Constants</td>
</tr>
<tr>
<td>3</td>
<td>8-9</td>
<td>The Selection Structure</td>
</tr>
<tr>
<td>4</td>
<td>10-11</td>
<td>More on the Selection Structure</td>
</tr>
<tr>
<td>5</td>
<td>12-14</td>
<td>The Repetition Structure</td>
</tr>
<tr>
<td>6</td>
<td>16-17</td>
<td>Sub and Function Procedures</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>TEST</td>
</tr>
</tbody>
</table>
II. Course Goals*:

The course will

A. Use applications software, operating systems and/or system-based products. II, IV
B. Effectively use computer language, to produce code and output that meet specified requirements. II, III, IV, V
C. Use equipment and resources that are up-to-date and real-world and that represent current trends in the employment field. II
D. Upgrade and develop skills that can be measured by real-world training standards as established by national tests, state standards, institutional goals, and employers I, II, III
E. Develop students’ ability to express ideas and facts in written and verbal communications and work independently or as a team member. I, II, III

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

III. Expected Student Learning Outcomes*:

Students will be able to:

1. Use Visual BASIC tools to create a well-documented application based on client input or industry research. (A, B, C)
2. Demonstrate a working knowledge of the Visual Basic program language terms (A, B, C)
3. Learn to analyze and solve problems using structured and analytical techniques. (A, B, C)
4. Use professional tools to produce software components and documentation. (C)
5. Create fully functioning window driven client-based problem solving programs complete with documentation per instructor specifications (A, B, C, D)
6. Plan the logic for complete business programs. (A, B, C, D)
7. Demonstrate the ability to work alone, communicate well and work within a group as assigned (C, D, E)
* Capital letters after Expected Student Learning Outcomes reference the course goals listed above.

IV. Evaluation:

A. Testing Procedures: At least 50% of grade

A minimum of three major tests is recommended. Tests will cover material presented in class. Tests are not to be missed without a valid excuse.

B. Laboratory Expectations: Maximum 40% of grade

Lab attendance is required. Assignments will be given and must be completed and handed in at the designated date. The student is expected to turn in all required documentation for each lab. Students will automatically receive grade of F if no lab assignment is submitted.

C. Field Work:

N/A

D. Other Evaluation Methods: Student Presentation: 10% of grade.

Students will work as a team on their last project. There will be a team effort presentation. Presentations will normally cover materials that are discussed through the semester.

E. Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>93 – 100</td>
<td>A</td>
</tr>
<tr>
<td>88 – 92</td>
<td>B+</td>
</tr>
<tr>
<td>83 – 87</td>
<td>B</td>
</tr>
<tr>
<td>78 – 82</td>
<td>C+</td>
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<tr>
<td>73 – 77</td>
<td>C</td>
</tr>
<tr>
<td>65 – 72</td>
<td>D</td>
</tr>
<tr>
<td>Below 65</td>
<td>F</td>
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</tbody>
</table>

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 Dishonesty:

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:

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.

**Computer Usage Guidelines:**
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.