Course Outline

COURSE: CSIS 10     DIVISION: 50     ALSO LISTED AS:

TERM EFFECTIVE: Spring 2017     CURRICULUM APPROVAL DATE: 04/25/2016

SHORT TITLE: BASIC PROGRAMMING

LONG TITLE: Introduction to Programming using BASIC

<table>
<thead>
<tr>
<th>Units</th>
<th>Number of Weeks</th>
<th>Type</th>
<th>Contact Hours/Week</th>
<th>Total Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>18</td>
<td>Lecture: 3</td>
<td>54</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Lab: 0</td>
<td>0</td>
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<td></td>
<td></td>
<td>Other: 0</td>
<td>0</td>
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<td></td>
<td>Total: 3</td>
<td>54</td>
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</tbody>
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COURSE DESCRIPTION:

This course is an introduction to programming using BASIC. This course has the option of a letter grade or pass/no pass. ADVISORY: CSIS 1 or CSIS 2 or equivalent experience.

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES

L - Standard Letter Grade
P - Pass/No Pass

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

02 - Lecture and/or discussion
05 - Hybrid
72 - Dist. Ed Internet Delayed

STUDENT LEARNING OUTCOMES:

1. Design, implement, test, and debug a program that uses computation, simple I/O, standard conditional and iterative structures, and simple functions.
   Measure: homework, programming assignments

4/27/2016
2. Choose appropriate primitive data types and data structures for a given problem.  
Measure: homework, programming assignments

PLO: 1  
ILO: 7, 2  
GE-LO:  
Year assessed or anticipated year of assessment: 2016-2017

3. Identify fundamental programming concepts.  
Measure: homework, programming assignments

PLO: 1  
ILO: 7, 1, 3, 2  
GE-LO:  
Year assessed or anticipated year of assessment: 2016-2017

4. Apply program control structures.  
Measure: homework, programming assignments

PLO: 1  
ILO: 7  
GE-LO:  
Year assessed or anticipated year of assessment: 2016-2017

5. Choose appropriate test data, and use it to debug programs.  
Measure: homework, programming assignments

PLO: 1  
ILO: 7, 2  
GE-LO:  
Year assessed or anticipated year of assessment: 2016-2017

PROGRAM LEARNING OUTCOMES:
Student will be able to use a variety of business software, including word processors and spreadsheets to create business letters, reports and other business documents.

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS
Curriculum Approval Date: 04/25/2016

(6 hours) Program design. Compilers and interpreters. Using the IDE or other programming environment. Analysis of program requirements. Algorithms. Designing and modeling program structures. Modular design. HW: Read the chapter assignment. Enter and run a simple program in the programming environment.

(8 hours) Programming concepts. Coding and documenting programs. Using variables and literals. Types. HW: Read the chapter assignment. Write and run simple programs using variables and literals.

(8 hours) Expressions. Operators and operations. HW: Read the chapter assignment. Write, debug and run programs as assigned that use these concepts.

(15 hours) Decision logic. Looping. 
HW: Read the chapter assignment. Write, debug and run programs as assigned that use these concepts.

4/27/2016
(15 hours) Functions, Procedures, Sub-procedures, passing parameters.
HW: Read the chapter assignment. Write, debug, and run programs as assigned that use these concepts.
(2 hours) Final Exam

METHODS OF INSTRUCTION:
Lecture, computer demonstration, hands-on exercises and practice.

METHODS OF EVALUATION:
This is a degree-applicable course, but substantial writing assignments are NOT appropriate, because the course primarily:
Involves skill demonstrations or problem solving
The problem-solving assignments required:
Homework problems
Quizzes
Exams
The types of skill demonstrations required:
Class performance
Performance exams
The types of objective examinations used in the course:
Multiple choice
True/false
Matching items
Completion
Other category:
None
The basis for assigning students grades in the course:
Writing assignments: 0% - 0%
Problem-solving demonstrations: 30% - 70%
Skill demonstrations: 20% - 40%
Objective examinations: 10% - 40%
Other methods of evaluation: 0% - 0%

REPRESENTATIVE TEXTBOOKS:
Required:
Reading level of text, Grade: 12+ Verified by: Venable
Other textbooks or materials to be purchased by the student: Quasney, QBASIC Fundamentals and Style with an Introduction to Microsoft Visual Basic, Gavilan College custom edition

ARTICULATION and CERTIFICATE INFORMATION
Associate Degree:
CSU GE:
IGETC:
CSU TRANSFER:
    Transferable CSU, effective 200570
UC TRANSFER:
    Transferable UC, effective 200570

4/27/2016
SUPPLEMENTAL DATA:
Basic Skills: N
Classification: Y
Noncredit Category: Y
Cooperative Education:
Program Status: 1 Program Applicable
Special Class Status: N
CAN:
CAN Sequence:
CSU Crosswalk Course Department: CSIS
CSU Crosswalk Course Number: 10
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: C
Maximum Hours: 3
Minimum Hours: 3
Course Control Number: CCC000555845
Sports/Physical Education Course: N
Taxonomy of Program: 070710