Syllabus

CIT-120: Introduction to Programming Concepts

Course Description

This course teaches basic concepts of computer programming languages, including both structured and object oriented programming languages. Several typical programming languages will be introduced. Examples will be used to show students how to apply the computer programming techniques to solve typical business application problems.

Credit Hours: 3
Prerequisite Courses: None

Course Outcomes

Upon completion of this course you should be able to:

1. Have a basic understanding of general problem solving and methodology.
2. Understand concepts of algorithm design for problem solving.
3. Become familiar with commonly used control structures in programming design.
4. Understand program design procedures.
5. Use pseudocode or flowchart to develop an algorithm for a programming design.
6. Know how to use data, variables, data structures, programming logic control structures to build algorithms as problem solutions.
7. Apply basic technique used in problem analysis and software design phases and start to develop solutions for business applications.
8. Understand characteristics of two common programming design methods: Procedural Programming and Object-Oriented programming design.
9. Use QBasic to design programs to solve common business problems and further understand programming design.

Course Textbook

Robertson, L.A. (2007). *Simple program design: A step-by-step approach* (5th ed.). [CourseSmart version]. Retrieved from http://www.coursesmart.com

Grading Scale

Grade	Quality Points Per Credit	Percentage	Score
A	4.0	95% - 100%	950 – 1000

A-	3.7	92% - 94.9%	920 – 949
B+	3.3	89% - 91.9%	890 – 919
B	3.0	85% - 88.9%	850 – 889
B-	2.7	82% - 84.9%	820 – 849
C+	2.3	79% - 81.9%	790 – 819
C	2.0	75% - 78.9%	750 – 789
C-	1.7	72% - 74.9%	720 – 749
D+	1.3	69% - 71.9%	690 – 719
D	1.0	65% - 68.9%	650 – 689
F	.0	0% - 64.9%	0 – 649

Grading Policies

Your grading policy for your course is dependent on your school and program. Your grading policies can be found in the IWU Catalog. http://www.indwes.edu/catalog/2307.htm

Letter Grade Equivalencies

Grade	Description of Work

A	Clearly stands out as excellent performance. Has unusually sharp insights into material and initiates thoughtful questions. Sees many sides of an issue. Articulates well and writes logically and clearly. Integrates ideas previously learned from this and other disciplines. Anticipates next steps in progression of ideas. Example "A" work should be of such nature that it could be put on reserve for all cohort members to review and emulate. The "A" cohort member is, in fact, an example for others to follow.
B	Demonstrates a solid comprehension of the subject matter and always accomplishes all course requirements. Serves as an active participant and listener. Communicates orally and in writing at an acceptable level for the degree program. Work shows intuition and creativity. Example "B" work indicates good quality of performance and is given in recognition for solid work; a "B" should be considered a good grade and awarded to those who submit assignments of quality less than the exemplary work described above.
C	Quality and quantity of work in and out of class is average. Has marginal comprehension, communication skills, or initiative. Requirements of the assignments are addressed at least minimally.
D	Quality and quantity of work is below average. Has minimal comprehension, communication skills, or initiative. Requirements of the assignments are addressed at below acceptable levels.
F	Quality and quantity of work is unacceptable and does not qualify the student to progress to a more advanced level of work.

Course Assignments

Workshop One Outline

Title	Due Dates	Points
1.1 Reading	Due as soon as possible	0
1.2 Discussion: Pseudocode	Post your initial response by the end of the fourth day of the workshop and your two responses by the end of the workshop	20
1.3 Discussion: Input-Output-Process	Post your initial response by the end of the third day of the workshop and your two responses by the end of the workshop	35
1.4 Assignment: Flowchart	Due by the end of the workshop	50
1.5 Assignment: QBasic to Pseudocode	Due by the end of the workshop	60
1.6 Group Discussion: Capstone	Due by the end of Workshop Five	0
Totals		165

Workshop Two Outline

Title	Due Dates	Points
2.1 Reading	Do as soon as possible	0
2.2 Discussion: Flowchart Software	Post your initial response by the end of the third day of the workshop and your two responses by the end of the workshop	35
2.3 Assignment: Workshop Two Problems	Due by the end of the workshop	140
Totals		175

Workshop Three Outline

Title	Due Dates	Points
3.1 Reading	Do as soon as possible	0
3.2 Discussion: QBasic Flowchart	Post your initial response by the end of the third day of the workshop and your two responses by the end of the workshop	35
3.3 Assignment: Workshop Three Problems	Due by the end of the workshop	140
Totals		175

Workshop Four Outline

Title	Due Dates	Points
4.1 Reading	Do as soon as possible	0
4.2 Discussion: Programming	Post your initial response by the end of the third day of the workshop and your two responses by the end of the workshop	35
4.3 Assignment: Workshop Four Problems	Due by the end of the workshop	140
Totals		175

Workshop Five Outline

Title	Due Dates	Points
5.1 Reading	Do as soon as possible	0
5.2 Discussion: Programming Careers	Post your initial response by the end of the third day of the workshop and your two responses by the end of the workshop	20
Totals		310

Title	Due Dates	Points
5.3 Discussion: Programming Ethics	Post your initial response by the end of the third day of the workshop and your two responses by the end of the workshop	40
5.4 Group Discussion and Assignment: Capstone	Due by the end of the workshop	200
5.5 Assignment: Group Assignment Review Form	Due by the end of the workshop	50
End of Course Survey	Due by the end of the workshop	10 Extra Credit Points
Totals		310

Expectations, Policies, and Important Student Information

School/Division	Link
DeVoe School of Business	
Division of Liberal Arts	View School/Division Expectations, Policies, and Student Information
School of Services and Leadership	
School of Educational Leadership	View School/Division Expectations, Policies, and Student Information
Wesley Seminary @ IWU	View School/Division Expectations, Policies, and Student Information
Nursing - Undergraduate	View School/Division Expectations, Policies, and Student Information
Nursing - Graduate	View School/Division Expectations, Policies, and Student Information