

CSC 101 Articulation Competencies

Introduction to Programming (5 Credits)

Introduction to computer programming. Intended for non-science majors. Explores the basics of computer programming using the BASIC language. Topics include console I/O, variables, expressions, decisions, arrays, repetition, console graphics, file I/O and functions.

Upon completion of this course, successful students will score 80% or better on the following competencies to receive WVC college credits.

Student Learning Outcomes:

CATEGORIES			
1. Problem Solving:	A. Critical Thinking	3. Social Interaction:	A. Collaboration
	B. Creative Thinking		B. Ethical Conduct
	C. Quantitative Reasoning		C. Professional Conduct
	D. Qualitative Reasoning		D. Cultural Diversity
2. Communication:	A. Oral Expression	4. Inquiry:	A. Information Literacy
	B. Written Expression		B. Research
	C. Artistic Expression		C. Documentation

Course Competencies Checklist:

- Apply programming skills to provide solutions to data processing tasks. (1A)
- Apply stepwise logic to general problems. (1A)
- Understand the software development lifecycle. (1A)
- Apply variables and expressions in a computer programming application. (1A)
- Apply logic based decision making and repetition in a computer programming application. (1A)
- Understand and apply the concept of problem decomposition using top-down design. (1A)

<p><u>Program Outcomes:</u> Students taking computer science classes will be able to:</p> <ul style="list-style-type: none"> • Have a beginning knowledge of a computer programming language • Work independently to write a basic computer program • Diagnose and troubleshoot computer programming code • Develop a foundation on which to build further knowledge of computer programming and computer science 	<p><u>Course Topics:</u></p> <ul style="list-style-type: none"> • Data types and expressions • Variables • Console I/O • Decisions (If and select case statements) • Repetition (while and for statements) • Basic computer graphics • Arrays • Sequential File I/O • Functions and subroutines
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