



CSC 122 Introduction to Computer Programming

(3 contact hours – 2 lab hour - 3 credits)

Syllabus¹

- **General Information**

Instructor	
Office	
Phone	
Class Time	
Class Location	
Office Hours	
Teaching Assistant	

- **Required Textbook**

Python for Informatics: Exploring Information, C. Severance. CreateSpace Independent Publishing Platform, 2013. ISBN: 978-1492339243.

- **Supplementary Textbook**

Python Programming in Context, *Second Edition*. B. Miller and D. Ranum, Jones and Bartlett Learning, 2014. ISBN: 978-1-4496-9939-0.

- **Course Description**

An introductory course to problem solving and computational thinking using computer programming. Topics include: problem solving fundamentals, programming basics, variables and expressions, input/output, control structures, functions, strings, and files.

- **Course Prerequisites**

ENGL 098 or ENGL 100/110/112 or English Level 3,4,4A

- **Course Category**

Required

¹ This syllabus may change as needed. In such a case, students will be informed accordingly

- **Course Outcomes:**

At the completion of this course, students will be able to:

1. Explain and apply basic strategies of problem solving and computational thinking. [ABET a, b]
2. Apply programming skills and techniques to solve simple programming problems using sequencing, conditional and iterative structures. [ABET b, c, i]
3. Use a development tool to compile, run, test and debug computer programs. (Lab) [ABET i]

- **Tentative Schedule**

Topic	Week
Syllabus	1
Ch1: Why should you learn to write programs?	1-2
Ch2: Variables, expressions, and statements	3-4
Ch3: Conditional execution	5-6
Ch4: Functions	7-8
Ch5: Iterations	9-11
Ch6: Strings	12-13
Ch7: Files	14-15

- **Grading Scheme**

Lab Work	10%
Programming Assignments	10%
Quizzes	15%
Midterm Exam	25%
Final Exam	40%