

School of Computing and Information Sciences

Course Title: Computer Programming I

Date: 3/30/2018

Course Number: COP 2210

Number of Credits: 4

Subject Area: Programming	Subject Area Coordinator: Tim Downey email: downeyt@cs.fiu.edu
Catalog Description: A first course in computer science that uses a structured programming language to study programming and problem solving on the computer. Includes the design, construction and analysis of programs. Student participation in a closed instructional lab is required. This course will have additional fees.	
Textbook: Big Java by Cay Horstmann	
References:	
Prerequisites Courses: MAC-1140 or MAC-1147 or MAC-2233 or MAC-2311 or Advisor's permission	
Co-requisites Courses: Includes a closed lab component	

Type: Required Common Prerequisite

Prerequisites Topics:

- Mathematical functions
- Arithmetic and geometric sequences

Course Outcomes:

- ~~O1. Be familiar with the concepts of Objects & Classes~~
- ~~O2.~~O1. Master the ~~fundamental~~ Primitive Java data types
- ~~O3.~~O2. Master the Java selection and iteration constructs
- ~~O4.~~O3. Be exposed to arrays
- O4. Master using String, and ArrayList.
- ~~O5. Be familiar with the concepts of Objects & Classes~~
- O6. Master methods, method parameters, and parameter passing
- ~~O5.~~O7. Master using Wrapper Classes and Wrapper classes
- ~~O6.~~O8. Master analyzing problems and writing Java program solutions to those problems using the above features
- ~~O7.~~O9. Be exposed to software testing and interactive debugging
- ~~O8.~~O10. Master complex Boolean expressions in selection and iteration constructs
- ~~O9.~~O11. Master good programming practices
- ~~O10. Master methods, method parameters, and parameter passing~~

(Subject Area Coordinator will provide a list of best programming practices for instructors as a reference)