

Syllabus for APC 300 Programming I

NOTE: This syllabus document contains the basic information of this course. The most current syllabus is available in the full course.

Course Description

This course offers an introduction to the history of computing, fundamental computer concepts, and structured programming techniques. It provides hands-on coverage of simple data types, problem solving, program design, conditional execution, loops, and basic user-defined methods. Java will be used to teach the basic concepts of program analysis, design, implementation, debugging, and testing.

Prerequisite(s)

None

Course Outcomes

Upon completing this course, you will be able to do the following:

- Demonstrate knowledge of programming and computing history.
- Demonstrate knowledge of the Java programming language.
- Demonstrate knowledge of fundamental computer concepts and structured programming techniques.
- Demonstrate basic knowledge of program analysis and design.
- Use various simple data types in their programs.
- Develop code using control structures for conditional execution.
- Develop code using repetition structures.
- Use predefined java methods.
- Develop and use basic user defined methods.
- Design, develop and debug complete application programs.

Course Requirements/Components

- Programming Projects
- Quizzes
- Discussions
- Exams

Grading

The following grading scale will be used to evaluate all course requirements and to determine your final grade:

Grade	Percentage Range
A	90% - 100%
B	80% - 89%
C	70% - 79%
D	60% - 69%
F	0% - 59%

Evaluation Methods	Percentage of final grade
Programming Projects	30%
Exam 1	20%
Exam 2	20%
Final Exam	25%
Quizzes	3%
Discussions	2%