

# Syllabus for APC 300: Programming I

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**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
- Project Practice Discussions
- Quizzes
- 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	20%
Project Practice Discussions	6%
Quizzes	4%