

Syllabus for APC 390 Object Oriented Programming

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 object-oriented programming techniques using the Java programming language. Students will gain skills in using classes and interfaces, exception handling, programming by contract, inheritance, polymorphism, overloading, abstract classes and methods, serialization, generics, and an introduction to recursion.

Prerequisite(s)

APC 350: Programming II

Course Outcomes

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

- Use object-oriented techniques to write Java programs.
- Develop code using the programming-by-contract approach.
- Use inheritance, polymorphism, and abstract classes in programs.
- Develop custom exception classes and use them in programs.
- Develop classes and interfaces with overloaded methods.
- Use serialization to store and communicate objects.
- Develop code that creates graphical user interfaces.
- Demonstrate the ability to perform project management calculations.
- Develop code that uses recursive methods to solve problems.

Course Requirements/Components

- Assignments
- Discussions
- Quizzes

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
Assignments	60%
Discussions	15%
Quizzes	25%