

# Syllabus for APC 370 Systems Analysis and Design

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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 explores the first five phases of the Systems Development Life Cycle including scope definition, problem analysis, requirements analysis, logical design and decision analysis with the goal of determining an effective system solution. Topics covered include Use Case development, gap analysis, financial analysis of IT investments, and feasibility analysis.

## Prerequisite(s)

- APC 300: Programming I
- APC 320: Introduction to Business
- APC 330: Technical and Professional Communication

## Course Outcomes

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

- Describe the Systems Development Life Cycle (SDLC).
- Create a project plan.
- Understand feasibility studies and development strategies.
- Create requirements
- Construct process and data models.
- Produce a system design satisfying requirements and constraints.
- Describe system architecture.
- Understand systems implementation processes.
- Describe strategies for managing systems support and security.

## Course Requirements/Components

- Project that includes individual and group components
- Assignments
- 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
Project	40%
Assignments	30%
Exams	30%