

## APC 370: Systems Analysis and Design – Course Syllabus

**IMPORTANT:** This course syllabus document contains basic information about the course. A final syllabus with detailed guidelines, instructor information, project information, rubrics, course/university policies, and other course-related information will be provided to students upon course enrollment

### Course Description and Objectives

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. Prerequisites for this course are APC 300, APC 320 and APC 330.

By the end of this course, you will be able to:

- 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.

### Prerequisites

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

### Grading

#### Evaluation Methods

Your final grade will be based on your performance on the following:

<b>Item(s)</b>	<b>Points</b>	<b>Percentage</b>
Project	200	40%
Assignments	150	30%
Exams	150	30%
Total	500	100%

### Grading Scale

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

90–100%	A
80–89%	B
70–79%	C
60–69%	D
0–59%	F

### Workload

Students should expect to spend 144 credit hours per semester to complete the activities and assignments in this course. In a fall or spring semester, the time to dedicate per credit will range between 7-10 hours per week and in summer semester between 10-13 hours.