

APC 310: Math for Computer Science – 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 covers topics that serve as the foundation for general computer science practice, including logic, sets, functions, mathematical reasoning, counting, probability, relations, graphs, trees, Boolean algebra, and algorithms.

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

- Recognize real life situations where mathematical models apply.
- Translate the real-life situations into mathematical models.
- Solve the mathematical models.
- Interpret the solutions in the context of the real-life situations.

Prerequisites

None

Grading

Evaluation Methods

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

Item(s)	Percentage of Final Grade
Homework Assignments	20 %
Exams 1 and 2	50 %
Final Exam	30 %

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.