



Course Selection Guide

Computer Science Program

This document is an unofficial course selection guide for the Computer Science program. The course selection guide is meant to serve as a roadmap, giving you a destination and a generic path for completing your degree. During your studies, you will need to run a degree audit report in the Student Portal that will give you a screenshot of your current academic status and will help you plan your degree ahead. Keep in mind that the following roadmap is a recommended pathway and not a mandatory order in which you should take your courses.

Associate of Science Degree Requirements

The Associate of Science degree in Computer Science requires:

- The completion of at least 60 semester approved credits
- Earn a cumulative grade point average (CGPA) of 2.00 in all coursework attempted at UoPeople
- Earn an overall grade point average (CGPA) of 2.00 in all courses taken in the major area of study
- Complete the five (5) required proctored exams
- Complete all the requirements for the Associate degree in no more than 25 terms of active enrollment excluding periods of separation from the university.

Bachelor of Science Degree Requirements

The Bachelor of Science degree in Computer Science requires:

- The completion of at least 120 semester approved credits
- Earn a cumulative grade point average (CGPA) of 2.00 in all coursework attempted at UoPeople
- Earn an overall grade point average (CGPA) of 2.00 in all courses taken in the major area of study
- Complete the eleven (11) required proctored exams



- Complete all the requirements for the Bachelor's degree in no more than 50 terms of active enrollment excluding periods of separation from the university.

The Associate of Science degree with the Bachelor of Science degree level in Computer Science program has many goals in common. This reflects the fact that students at the Associate's level complete the same Year 1 and Year 2 program requirements with students at the Bachelor's level. However, because students at the Bachelor's level are expected to achieve these goals at a higher developmental level, they complete additional requirements in the third and fourth year of the program.

The Computer Science program is built on a strong liberal arts foundation with an appropriate balance maintained among the three curricular components: **The Major, General Education requirements, and Electives**. The Associate's degree program enables students to explore the field from a range of perspectives, gaining a fundamental understanding of the mathematical and scientific principles underlying computing and information technology and their application in the field. The Bachelor degree program provides students with an in-depth knowledge and analytical skills associated with the design, development, testing, and documentation of a range of operating systems; database management; and programming languages.

Below is a recommended course selection plan for completing courses in the **Computer Science Program**. Please note there is no particular order for selecting courses in the Computer Science Program as long as you meet prerequisite requirements. Therefore, if you decide to follow a different plan for completing your degree program, that is completely fine.



Course Selection Plan

Associate of Science Degree – Computer Science

Course Code	Course Title	Credits	Pre-Requisites	Program Major	General Studies
Year 1					
UNIV 1001	Online Education Strategies	3	None	0	3
ENGL 1102	English Composition 2 (proctored)	3	None	0	3
CS 1101	Programming Fundamentals	3	None	3	0
CS 1102	Programming 1	3	CS 1101	3	0
CS 1103	Programming 2	3	CS 1102	3	0
CS 1104	Computer Systems	3	CS 1103	3	0
MATH 1201	College Algebra (proctored)	3	None	0	3
MATH 1280	Introduction to Statistics (proctored)	3	None	0	3
	Elective	3		0	3
	Elective	3		0	3
Credit Totals Year 1		30		12	18
Year 2					
CS 2203	Databases 1	3	CS 1102	3	0
CS 2204	Communications and Networking	3	CS 1104	3	0
CS 2205	Web Programming 1 (proctored)	3	CS 1103	3	0
CS 2301	Operating Systems 1 (proctored)	3	CS 1103	3	0
CS 2401	Software Engineering 1	3	CS 1103	3	0
HIST 1421	Greek and Roman Civilization	3	None	0	3
PHIL 1404	Ethics and Social Responsibility	3	None	0	3
MATH 1211	Calculus	3	MATH 1201	0	3
	Elective	3		0	3
	Elective	3		0	3
Credit Totals Year 2		30		15	15
Total Program Credit		60		27	33



Bachelor of Science Degree – Computer Science

Course Code	Course Title	Credits	Pre-Requisites	Program Major	General Studies
Year 3					
CS 3303	Data Structures	3	CS 1103	3	0
CS 3304	Analysis of Algorithms	3	CS 3303	3	0
CS 3305	Web Programming 2	3	CS 2205	3	0
CS 3306	Databases 2 (proctored)	3	CS 2203	3	0
CS 3307	Operating Systems 2	3	CS 2301	3	0
CS 3308	Information Retrieval (proctored)	3	CS 3303	3	0
MATH 1302	Discrete Mathematics	3	None	0	3
	Elective	3		0	3
	Elective	3		0	3
	Elective	3		0	3
Credit Totals Year 3		30		18	12
Year 4					
CS 4402	Comparative Programming Languages	3	CS 1103	3	0
CS 4403	Software Engineering 2	3	CS 2401	3	0
CS 4404	Advanced Networking and Data Security	3	CS 2404	3	0
CS 4405	Mobile Applications	3	CS 2205	3	0
CS 4406	Computer Graphics (proctored)	3	CS 3304	3	0
CS 4407	Data Mining and Machine Learning	3	CS 3304	3	0
CS 4408	Artificial Intelligence (proctored)	3	CS 4407	3	0
	Electives	3		0	3
	Elective	3		0	3
	Elective	3		0	3
Credit Totals Year 4		30		21	9
Total Program Credit		120		66	54