

COMPUTER SCIENCE Associate of Science

The Computer Science Associate of Science degree is designed for students interested in software design and programming. Those wishing to transfer to a baccalaureate granting institution and pursue a degree program are strongly encouraged to check with their advisor and carefully coordinate their coursework at San Juan College with the requirements of the transfer institution. The rigorous nature of this degree fulfills the expectations at the baccalaureate level. This degree also begins prospective computing professors and/or research students on their path leading to graduate degrees. Consider taking a foreign language at San Juan College if your intended transfer institution has such a requirement. These courses will be in addition to the requirements listed below.

Prerequisite courses must be completed prior to the courses listed below (e.g., MATH 180 and 185 prior to MATH 188). In general, however, it is suggested that students complete the New Mexico Transfer Module as outlined below. Student must earn a grade of "C" or higher in all COSC courses for the course to count toward a degree.

			Credits
Communications:			
ENGL	111	Freshman Composition	3
ENGL	211	Advanced Composition	3
SPCH	110	Public Speaking OR	3
SPCH	111	Interpersonal Communication	
Mathematics:			
MATH	188	Calculus I	4
MATH	189	Calculus II	4
MATH	231	Discrete Mathematics	3
Computer Science – Core classes:			
COSC	118	Computer Programming Fundamentals I with C++ **	3
COSC	190	Database Concepts and Principles	3
COSC	218	Computer Programming Fundamentals II with C++	3
COSC	236	UNIX	3
COSC	240	Java Programming	3
COSC	243	Web Programming on UNIX Systems	3
COSC	262	Data Structures with C++	3
COSC	270	Windows GUI Programming	3
PHYS	211	General Physics I ***	4
PHYS	212	General Physics II ***	4
		Approved Humanities and Fine Arts Course	3
		Approved Humanities and Fine Arts Course	3
		Approved Social and Behavioral Science Course	3
		Approved Social and Behavioral Science Course	3
		Approved Social and Behavioral Science OR Humanities and Fine Arts Course	3

Total credit hours required for this degree 67

** You need to be able to use a computer, type, create documents, save files, etc. before taking COSC 118. If your computing skills are low you should take COSC 097 concurrently.

*** Read the current catalog of your intended transfer degree institution to take the most appropriate laboratory science courses. Any San Juan College approved laboratory science course may be substituted as deemed appropriate by your computer science advisor. This course also satisfies General Education laboratory science requirement. For information about NM Tech go to www.nmt.edu, [NMSU www.nmsu.edu](http://www.nmsu.edu) and Fort Lewis www.fortlewis.edu.