COMPUTER SCIENCE (AS)

Associate of Science

Transfer Program
Interest Areas:
Science, Tech., Engr. and Math

This program leads to career opportunities in a wide variety of computer science areas such as operating systems, expert systems, graphics, databases, software engineering, compilers, numerical analysis, etc. This program requires strong math skills.

Completion of the following courses results in an associate degree and meets the general core requirements at all Idaho public universities. The suggested coursework normally fulfills the first half of a baccalaureate degree requirements in Computer Science. Course selection should be tailored to match requirements defined by intended transfer institutions.

Program Website (https://www.nic.edu/programs/viewprogram.aspx?program_id=21)

Program Requirements

Code	Title	Credits
General Education Requirements		
GEM 1 - Written Communication		6
GEM 2 - Oral Communication		3
GEM 3 - Mathematical Ways of Knowing [1]		0
GEM 4 - Scientific Ways of Knowing [2]		4
GEM 5 - Humanistic and Artistic Ways of Knowing		6
GEM 6 - Social and Behavioral Ways of Knowing		6
GEM 7 - Institutionally Designated		4-6
Program Requirements		
CS-150	Computer Science I	4
CS-151	Computer Science II	4
CS-155	Computer Organization and Assembly Language	3
CS-210	Programming Languages	3
CS-241	Computer Operating Systems	3
CS-270	System Software	3
MATH-170	Analytic Geometry and Calculus I	4
MATH-175	Analytic Geometry and Calculus II	4
MATH-187	Discrete Mathematics	4
Select one of the following:		4-5
BIOL-115	Introduction to Life Sciences	
ZOOL-202	General Zoology	
CHEM-111	Principles of General College Chemistry I	
PHYS-211	Engineering Physics I	
Total Credits		65-68

[1] This General Education Requirement is met by the Program Requirements.

[2] This General Education Requirement is partially met by the Program Requirements.

Course Key

GEM	WCHE	AAS Institutionally Designated	Gateway	Milestone

Program Outcomes

Upon completion of the program, students will be able to:

- Demonstrate the ability to use current techniques, skills, and tools necessary for computing practice.
- Demonstrate the ability to analyze the local and global impact of computing on individuals, organizations, and society.
- Demonstrate an understanding of professional, ethical, legal, security, and social issues and responsibilities.
- Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
- Apply knowledge of computing and mathematics appropriate to the discipline.
- Analyze a problem, and identify and define the computing requirements appropriate to its solution.
- Communicate effectively with a range of audiences and function effectively on a team to accomplish a common goal.

In addition to the program outcomes, students will meet the North Idaho College General Education (GEM) Requirements.