Computer Information Systems

Degree Type
Associate in Science

Computer Information Systems Associate of Science degree provides students with the opportunity to be well rounded in technology its effect on business and users. A degree in Computer Information Systems will allow students to get core foundations in many different areas of the computer industry. Students will learn programming, networking, databases, web design, hardware, software, communication, and business skills to prepare them for a position succeeding in any of those areas. This degree will set students up to transfer to many different schools in New Hampshire and New England, as well as the rest of the country and world should they choose. This degree provides students with flexibility to work in many capacities within IT for not just IT companies, but also for any business that would have an IT department or need. Students will look to gain employment as Computer Support Specialists, Network and Systems Administrators, Web or Programming Developers, and Information Systems Managers. Several stackable certificates are available during the program, including PC Applications Specialist, CIS Tech Certificate and a Programmer Certificate.

Program Objectives:

1. Introduce students on how Computer Information Systems integrates with technology and business.
2. Provide students with the foundational knowledge in web development and object-oriented programming language and logic.
3. Prepare students to use the systems development life cycle along with its tools, techniques, methodologies, and processes, to develop computer-based information systems that meet the needs of businesses and organizations.
4. Provide students with database skills to design, implement, maintain and analyze those systems.
5. Introduce students to networking and data communication skills and security concepts.
6. Help students to explore career pathways in information technology to allow them to find a career that is right for them.

Learning Outcomes:

1. Demonstrate a foundation of Computer Information Systems technical skills, knowledge and a basic understanding of computer applications.
2. Demonstrate a broad understanding of how people, processes and data work together to become Information Systems.
3. Demonstrate the ability to work as a part of an information technology team with effective use of the internet and the ability to disseminate information strategically.
4. Demonstrate the ability to think logically in troubleshooting computer problems and finding possible solutions.
5. Demonstrate proficiency with English Composition and Business fundamentals.
6. Demonstrate a basic understanding of various forms of programming languages and how to construct programming logic.
7. Demonstrate the basic understanding of relational databases
8. Demonstrate the ability to understand operating systems and networking solutions to connect those systems securely.

First Year

Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
CIS133L	Introduction to Information Technology	2	2	3
CIS136L	Fundamentals of Information Technology	2	2	3
CIS141L	Information Systems	2	2	3
ENGL100L	English Composition	4	0	4
INDL100L	College Essentials	1	0	1
	Sub-Total Credits	**11**	**6**	**14**

Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
CIS140L	Introduction to Programming	3	2	4
	CIS210L OR CIS261L OR CIS262L	2	2	3
CIS252L	Managing & Troubleshooting Personal Computers	2	2	3
BUS130L	Introduction to Business	3	0	3
	Mathematics Elective (3 credits)	3	0	3
	Sub-Total Credits	**13**	**6**	**16**

Second Year

Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
CIS248L	Introduction to Networks	2	2	3
CIS215L	Intermediate Programming	3	2	4
CIS271L	Analyzing Software Requirements	2	2	3
	Humanities/Fine Arts/Foreign Language Elective	3	0	3
	Social Science Elective	3	0	3
	Sub-Total Credits	**13**	**6**	**16**

Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
CIS242L	Database Management and Design	2	2	3
	CIS261L OR CIS262L OR CIS267L	2	2	3
CIS234L	Website and Design Development	2	2	3
	Science Elective (3 credits)	3	0	3
	Computer Information Systems Elective	2	2	3
	Sub-Total Credits	**11**	**8**	**15**
	Total Credits			**61**