

Information and Communications Technology (Information Technology Support / Information Systems Administrator)

Degree Type

Associate in Applied Science

Contact Information

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NDSCS-Fargo 138

Delivery Methods

Face-to-Face: Fargo
Online: Some Classes
Combination

Because we live in an IT oriented society, Information Systems Administrator offers a world-wide job market with a variety of locations and environments. Computers and networks are used in all types of businesses, banks, accounting firms, hospitals, manufacturing companies, insurance companies, sales companies, etc. The placement record in this program has been excellent.

For students wishing to pursue a bachelor's degree at a four-year college or university, please see the Computer Science or Management Information Systems Liberal Arts transfer curriculum plans listed in the Liberal Arts section of this catalog.

Program purposes

1. To provide students with the knowledge of computer and network training enabling them to configure and install systems.
2. To provide students with the knowledge and skills necessary to assist management in the selection of computer hardware and software.
3. To provide students with the knowledge of computer networks enabling them to configure and install them.
4. To prepare students to pursue a third-year option in Web Design or IT Forensics and Security (see additional program purposes listed under Web Design emphasis or IT Forensics and Security emphasis).

Facilities

NDSCS has hardware and networking labs. Each of these labs has current equipment and software.

All Information and Communications Technology students are required to purchase laptop computers. These laptops give students adequate computer access to complete projects and assignments given in class.

Instruction

The instructors for this program have formal educational training, industry training and certifications, and work experience in Information Technology. Laboratory time is scheduled into each student's program allowing them to receive individual attention and hands-on computer experience.

NOTE: This program requires either an HP EliteBook or ZBOOK laptop or equivalent. Please refer to the NDSCS website for specifications. For further information, contact the NDSCS ITS Department at 701-671-3333 option 5.

Admission Requirements*

The applicants must be high school graduates or equivalent. Helpful courses to prepare for this curriculum are mathematics, keyboarding, and any computer hardware classes.

Please Note: Students are placed into English, math and reading courses based on ACT, ACCUPLACER or other nationally recognized tests. Please see www.ndscs.edu/current-students/student-success/test-center for the NDSCS Course Placement Policy and testing information. Students may be on an extended plan of study pending their course placement.

**Program Admission Requirements are subject to revision. Please check the department or program website under Program Admission Requirements for current information.*

Students interested in a third-year option in Web Design or IT Forensics and Security should refer to the Web Design/Web Developer or IT Forensics and Security fact sheets.

Upon successful completion of the third-year option, students will also be awarded a certificate in Information and Communications Technology with an emphasis in Web Design or a certificate in Information and Communications Technology with an emphasis in IT Forensics and Security.

Award

Upon successful completion of the Information Technology Support and the Information Systems Administrator required courses, students will be awarded an Associate in Applied Science degree in Information and Communications Technology with an emphasis in Information Systems Administrator.

Information Technology Support

Course Code	Title	Credits
CIS 128	IT Essentials I	3
CIS 129	IT Essentials II	3
CIS 164	Networking Fundamentals I	4
CIS 165	Networking Fundamentals II	4
CIS 180	HTML and CSS	3
CIS 191	First Year Seminar	1
CIS 197	Internship	1
CIS 212	Microsoft Windows Operating System Client	3
CIS 220	Operating Systems (Unix)	3
ENGL 110	College Composition I	3
FYE 101	Science of Success	1
PHIL 215	Contemporary Moral Issues	3

After certificate courses are completed, below are the required courses for the Information and Communications Technology A.A.S. with emphasis in Information Systems Administrator degree.

Required Courses

Course Code	Title	Credits
CIS 142	Cyber Security Operations	4
CIS 215	Implementing a Microsoft Windows Server Environment	4
CIS 216	Implementing a Microsoft Windows Network Infrastructure	4
CIS 267	Intermediate Networking I	4
CIS 268	Infrastructure Automation (DEVNET ASC)	4
CIS 279	Security Awareness and Policy	1
CSCI 160	Computer Science I	4
	Wellness Elective(s) (2 credits)	2
	ND: Math (3 credits)	3
	English/Communication Elective (3 credits)	3
	Social and Behavioral Science, Humanities and History Electives (2 2 credits)	2
	Total Required Credits	67