

## Information Technology Support / Information Systems Administrator

### ► Contact Information

John Kroshus, associate professor  
john.kroshus@ndscs.edu  
701-671-2115  
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

- To provide students with the knowledge of computer and network training enabling them to configure and install systems.
- To provide students with the knowledge and skills necessary to assist management in the selection of computer hardware and software.
- To provide students with the knowledge of computer networks enabling them to configure and install them.
- 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 the purchase of a notebook computer. The cost will be approximately \$1,500 with several purchase or lease options available. For further information, call the Information Technology Department at 701-671-3333.

### 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.

Required minimum placement scores:

<u>ACT</u>	<u>ACCUPLACER</u>	<u>ACCUPLACER</u>
Composite – 17	Reading Comp – 85	<u>NEXT GENERATION</u>
	WritePlacer – 5	Reading – 256
	Elementary Algebra – 41	Writing – 250
		QAS – 237

Or transfer equivalencies will apply as appropriate

Applicants not meeting the above requirements are encouraged to visit with the academic counselor at 701-671-2263 or the ICT department chair at 701-671-2496 for strategies to meet the admission requirements.

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

### Information Technology Support (Certificate)

Course Code	Course 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 191	First Year Seminar	1
CIS 197	Internship	1
CIS 212	Microsoft Windows Operating System Client	3
CIS 220	Operating Systems (UNIX)	3
CIS 244	Web Server Management	3
ENGL 110	College Composition I	3
FYE 101	Science of Success	1
PHIL 210	Ethics	3

**Total Required Credits for Certificate 32**

**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**

Course Code	Course Title	Credits
CIS 142	Cyber Security Operations	4
CIS 180	HTML and CSS	3
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 279	Security Awareness and Policy	1
CSCI 160	Computer Science I	4
Wellness Elective(s)		2
ND:MATH		3
ENGL/COMM Elective		3
Social and Behavioral Science, Humanities and History Electives		2

**Total Required Credits for Associate 66**

*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 required courses, students will be awarded a Certificate in Information and Communications Technology with an emphasis in Information Technology Support.

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.

Revised: May 2021