

## Option A

### Network Engineering – Computer Systems Technology (AAS)

This program prepares students to perform tasks associated with maintaining, analyzing, troubleshooting, and repairing computer systems, hardware, and peripherals in both networked and stand-alone environments. Program completers will be able to oversee and regulate the computer performance requirements of organizations and networked satellite users.

<b>FRESHMAN YEAR</b>	Fall	Spring	<b>SOPHOMORE YEAR</b>	Fall	Spring
CIS 160 Operating Systems	3		CIS 162 Oper. Systems Windows XP	3	
CIS 219 Microcomputer Hardware	3		CIS 220 Oper. Systems Unix	3	
CIS Elective	3		CIS 267 Cisco Switching	3	
CIS 265 Cisco Networking	4		CSCI 127 Beginning Java	3	
Math Elective	3-4		Art/Humanities/Social Science Elective	3	
CIS 222 Novell Netware Admin		3	Wellness Elective	1	
CIS 244 Windows 2003 Server		3	CIS Elective	3	
CIS 266 Cisco Routing, Config, Trouble		4	CIS 248 Oper. Systems Linux		3
CIS 275 Advanced Hardware		3	CIS 268 Cisco Switch & Project Mgmt		4
CSCI 185 Javascript		3	Art/Humanities/Social Science Elective		3
CIS elective		3	Communication Elective		3
			CIS Elective		3
			Elective		3

# INFORMATION TECHNOLOGY

## Network Engineering (AAS)

**Option A - Computer Systems Technology**

**Option B - Database Technology**

**Option C - Information Assurance/Network Security**

**Option D - Operating Systems Technology**

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### **WHAT WOULD I DO? EMPLOYMENT OPPORTUNITIES**

*Network Engineer* – Maintain network hardware and software, analyze problems, monitor the network, and implement network security measures.

*Computer Systems Technology* – Maintain, analyze, troubleshoot, and repair computer systems, hardware, and peripherals in both networked and stand-alone environments.

*Database Technology* – Manage and organize database resources by modification, installation, configuration, monitoring, and troubleshooting systems such as Access and Oracle.

*Information Assurance/Network Security* – Address the security needs of computer and network systems, recommend safeguard solutions, and manage the implantation and maintainance of security devices.

*Operating Systems Technology* – Manage and control the system configurations from a specific site or network hub including Windows 2000/2003 Server, Windows XP, Unix/Solaris, Novell, and Linux.

### **HOW MUCH WOULD I EARN? EMPLOYMENT INCOME**

Earnings vary widely depending on position and experience, ranging anywhere from minimum wage to more than \$20.00 an hour. Nationwide, annual salary is about \$59,140; in North Dakota, around \$43,800.

### **HOW MANY JOBS ARE THERE? EMPLOYMENT OUTLOOK**

Employment of network engineers is expected to grow faster than any other profession through the year 2008 in response to increasing technology.

## Information Technology Network Engineering (AAS)

	Fall	Spring
<i>FRESHMAN</i>		
CIS 265 Cisco Networking	4	
CIS 220 Operating Systems/UNIX	3	
CIS 219 Microcomputer Hardware	3	
CIS Elective	3	
Math elective	3	
CIS 266 Cisco Routing, Config, Trouble		4
CIS 245 Solaris System Admin I		3
CIS 244 Windows 2003 Server		3
CIS 275 Advanced Hardware		3
Art/Humanities/Social Science elective		3
Wellness elective		1
<i>SOPHOMORE YEAR</i>		
CIS 267 Cisco Switching/LAN Topol	3	
CIS 246 Solaris System Admin II	3	
Computer electives	6	
Communication elective	3	
CIS 268 Cisco Switching/Proj Mgmt		4
CIS 248 Operating Systems Linux		3
CIS 162 Operating Systems/Windows XP		3
CIS 222 Netware Administration 5.x		3
Computer elective		3