

Coordinated Plans of Study for the North Dakota Career and Technical Education or Academic Scholarships

Information Technology Education

Information Technology Career Cluster

| Course Code | Description | No. of Credits | Course Code | Description | No. of Credits | Course Code | Description | No. of Credits | Course Code | Description | No. of Credits |
|----------------------------------|---|----------------|----------------------------------|---|----------------|----------------------------------|---------------------------------|----------------|------------------------------------|---|----------------|
| 27101 | Intro to IT | ¼, ½, 1 | 27101 | Intro to IT | ¼, ½, 1 | 27101 | Intro to IT | ¼, ½, 1 | 27101 | Intro to IT | ¼, ½, 1 |
| 27280 | Introduction to Cybersecurity | ½ or 1 | 27280 | Introduction to Cybersecurity | ½ or 1 | 27280 | Introduction to Cybersecurity | ½ or 1 | 27280 | Introduction to Cybersecurity | ½ or 1 |
| 23011 | Computer Science Applications | ½ or 1 | 23011 | Computer Science Applications | ½ or 1 | 23011 | Computer Science Applications | ½ or 1 | 23011 | Computer Science Applications | ½ or 1 |
| Network Systems | | | Information Support & Services | | | Web and Digital Communications | | | Programming & Software Development | | |
| Course Code | Description | No. of Credits | Course Code | Description | No. of Credits | Course Code | Description | No. of Credits | Course Code | Description | No. of Credits |
| 27111 | Internet of Things Fundamentals | ½ or 1 | 27111 | Internet of Things Fundamentals | ½ or 1 | 27102 | Computer Software Application | ½, 1, 2 | 27120 | Intro to Programming Languages | ½ or 1 |
| 27219 | Computer Hardware and Operating Systems (A+) | ½, 1, 2 | 27219 | Computer Hardware and Operating Systems (A+) | ½, 1, 2 | 27128 | Mobile Applications Development | ½, 1 | 27122 | Programming Essentials | ½ or 1 |
| 27220 | IT Essentials 2 | ½ or 1 | 27220 | IT Essentials 2 | ½ or 1 | 27130 | Computer Gaming and Design | ½ or 1 | 23012 | CS Programming | ½ or 1 |
| 27265 | Introduction to Networking | ½ or 1 | 27265 | Introduction to Networking | ½ or 1 | 27131 | Computer Gaming and Design 2 | ½ or 1 | 27123 | Programming Essentials: Python | ½ or 1 |
| 27266 | CCNA Introduction to Networks | ½ or 1 | 27266 | CCNA Introduction to Networks | ½ or 1 | 27170 | Introduction to Web Design | ½ or 1 | 27124 | Programming Essentials: C++ | ½ or 1 |
| 27267 | CCNA Routing & Switching Essentials | ½ or 1 | 27300 | Essentials of Desktop Operating Systems | ½ or 1 | 27400 | Geographic Info Systems (GIS) | ½ or 1 | 27125 | Fundamentals of JAVA Programming | ½ or 1 |
| 27268 | CCNA Scaling Networks | ½ or 1 | 27305 | Essentials of Desktop Operating Systems – Linux | ½ or 1 | 27995 | IT Internship | ½ to 4 | 27127 | Advanced JAVA Programming | ½ or 1 |
| 27269 | CCNA Connecting Networks | ½ or 1 | 27400 | Geographic Info Systems (GIS) | ½ or 1 | 27999 | Cooperative Work Experience | ½ to 4 | 23015 | Advanced CS Programming | ½ or 1 |
| 27305 | Essentials of Desktop Operating Systems – Linux | ½ or 1 | 27995 | IT Internship | ½ to 4 | | | | 27128 | Mobile Applications Development | ½ or 1 |
| 27310 | Essentials of Network Operating Systems | ½ or 1 | 27999 | Cooperative Work Experience | ½ to 4 | | | | 27130 | Computer Gaming and Design | ½ or 1 |
| 27995 | IT Internship | ½ to 4 | 51012 | Governor’s School: Information Technology | ½ | | | | 27131 | Computer Gaming and Design 2 | ½ or 1 |
| 27999 | Cooperative Work Experience | ½ to 4 | | | | | | | 27170 | Introduction to Web Design | ½ or 1 |
| 51012 | Governor’s School: Information Technology | ½ | | | | | | | 27500 | Data Modeling & SQL | ½ or 1 |
| | | | | | | | | | 27510 | CTE AP CS Principles | ½ or 1 |
| | | | | | | | | | 23582 | AP Computer Science Principles | ½ or 1 |
| | | | | | | | | | 27520 | CTE AP CS A | ½ or 1 |
| | | | | | | | | | 23580 | AP Computer Science A | ½ or 1 |
| | | | | | | | | | 10820 | PLTW Cybersecurity | ½ or 1 |
| | | | | | | | | | 10810 | PLTW Computer Science Essentials | ½ or 1 |
| | | | | | | | | | 10815 | PLTW Computer Science Principles | ½ or 1 |
| | | | | | | | | | 27995 | IT Internship | ½ to 4 |
| | | | | | | | | | 27999 | Cooperative Work Experience | ½ to 4 |
| | | | | | | | | | 51012 | Governor’s School: Information Technology | ½ |
| Must complete at least 2 credits | | | Must complete at least 2 credits | | | Must complete at least 2 credits | | | Must complete at least 2 credits | | |