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	Course Code	Description	No. of Credits	Course Code	Course Code	Description	No. of Credits	Course Code
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**		