Coordinated Plan of Study
North Dakota Career and Technical Education or Academic Scholarship
INFORMATION TECHNOLOGY EDUCATION

Information Technology Career Cluster	
Course Code	**Description**
27101	Intro to IT
27280	Introduction to Cybersecurity
23011	Computer Science Applications

Information Support & Services Pathway	
Course Code	**Description**
27111	Internet of Things Fundamentals
27219	Computer Hardware and Operating Systems (A+)
27220	IT Essentials 2
27265	Introduction to Networking
27266	CCNA Introduction to Networks
27305	Essentials of Desktop Operating Systems – Linux
27400	Geographic Info Systems (GIS)
27995	IT Internship
27999	Cooperative Work Experience
51012	Governor's School: Information Technology

Information Technology Career Cluster	
Course Code	**Description**
27101	Intro to IT
27280	Introduction to Cybersecurity
23011	Computer Science Applications

Network Systems Pathway	
Course Code	**Description**
27111	Internet of Things Fundamentals
27219	Computer Hardware and Operating Systems (A+)
27220	IT Essentials 2
27265	Introduction to Networking
27266	CCNA Introduction to Networks
27267	CCNA Routing & Switching Essentials
27268	CCNA Scaling Networks
27269	CCNA Connecting Networks
27305	Essentials of Desktop Operating Systems – Linux
27995	IT Internship
27999	Cooperative Work Experience
51012	Governor's School: Information Technology

Information Technology Career Cluster	
Course Code	**Description**
27101	Intro to IT
27280	Introduction to Cybersecurity
23011	Computer Science Applications

Programming & Software Development Pathway	
Course Code	**Description**
27120	Intro to Programming Languages
27122	Programming Essentials
23012	CS Programming
27123	Programming Essentials: Python
27124	Programming Essentials: C++
27125	Fundamentals of JAVA Programming
27127	Advanced JAVA Programming
23015	Advanced CS Programming
27128	Mobile Applications Development
27130	Computer Gaming and Design
27131	Computer Gaming and Design 2
27170	Introduction to Web Design
27510	CTE AP CS Principles
23582	AP Computer Science Principles
27520	CTE AP CS A
23580	AP Computer Science A
10820	PLTW Cybersecurity
10810	PLTW Computer Science Essentials
10815	PLTW Computer Science Principles
27995	IT Internship
27999	Cooperative Work Experience
51012	Governor's School: Information Technology

Information Technology Career Cluster	
Course Code	**Description**
27101	Intro to IT
27280	Introduction to Cybersecurity
23011	Computer Science Applications

Web and Digital Communications Pathway	
Course Code	**Description**
17140	Audio/Visual Production
27102	Computer Software Application
27128	Mobile Applications Development
27130	Computer Gaming and Design
27131	Computer Gaming and Design 2
27170	Introduction to Web Design
27400	Geographic Info Systems (GIS)
27995	IT Internship
27999	Cooperative Work Experience

- Student must complete at least 2 credits in one Career Cluster/Pathway.
- The top/blue section of the plan consists of more general courses that fit into the career cluster. The second/red section identifies a career pathway within that cluster and contains courses intended to better prepare students interested in that specific pathway.
- To complete two credits in a coordinated plan of study, a student chooses two or more courses to equal that number of credits, utilizing courses from both sections.
- Gray cells are classes not funded by NDCTE.