

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

Information Technology Career Cluster Description Code 27101 Intro to IT 27280 Introduction to Cybersecurity 23011 **Computer Science Applications Information Support & Services Pathway** Course Description Code 27111 Internet of Things Fundamentals Computer Hardware and Operating Systems 27219 (A+) 27220 IT Essentials 2 27265 Introduction to Networking 27266 CCNA Introduction to Networks Essentials of Desktop Operating Systems 27300 Essentials of Desktop Operating Systems -27305 Linux Geographic Info Systems (GIS) 27400 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	
27310	Essentials of Network Operating Systems	
27995	IT Internship	
27999	Cooperative Work Experience	
51012	Governor's School: Information Technology	

Course Code	areer Cluster	
	Description	
27101	Intro to IT	
27280 Int	troduction to Cybersecurity	
	mputer Science Applications	
Programming & Software Development		
Pathway		
Course Code	Description	
27120 Intro	o to Programming Languages	
27122	Programming Essentials	
23012	CS Programming	
27123 Pro	gramming Essentials: Python	
27124 Pr	ogramming Essentials: C++	
27125 Funda	mentals of JAVA Programming	
27127 Ac	lvanced JAVA Programming	
23015 A	dvanced CS Programming	
27128 Mob	ile Applications Development	
27130 Co	mputer Gaming and Design	
27131 Co	mputer Gaming and Design 2	
27170 Ir	ntroduction to Web Design	
27500	Data Modeling & SQL	
27510	CTE AP CS Principles	
23582 AP	Computer Science Principles	
27520	CTE AP CS A	
23580	AP Computer Science A	
10820	PLTW Cybersecurity	
	/ Computer Science Essentials	
10815 PLTW	/ Computer Science Principles	
27995	IT Internship	
27999 Co	operative 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.