

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

Agricultural Education											
Agriculture, Food & Natural Resources 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
01011	Introduction to Agriculture	½ or 1	01011	Introduction to Agriculture	½ or 1	01011	Introduction to Agriculture	½ or 1	01011	Introduction to Agriculture	½ or 1
01021	Agriscience Technology I	½ or 1	01021	Agriscience Technology I	½ or 1	01021	Agriscience Technology I	½ or 1	01021	Agriscience Technology I	½ or 1
01012	Foundations of Agriculture	½ or 1	01012	Foundations of Agriculture	½ or 1	01012	Foundations of Agriculture	½ or 1	01012	Foundations of Agriculture	½ or 1
01022	Agriscience Technology II	½ or 1	01022	Agriscience Technology II	½ or 1	01022	Agriscience Technology II	½ or 1	01022	Agriscience Technology II	½ or 1
01073	Agriculture III	½ or 1	01073	Agriculture III	½ or 1	01073	Agriculture III	½ or 1	01073	Agriculture III	½ or 1
01023	Agriscience Technology III	½ or 1	01023	Agriscience Technology III	½ or 1	01023	Agriscience Technology III	½ or 1	01023	Agriscience Technology III	½ or 1
01074	Agriculture IV	½ or 1	01074	Agriculture IV	½ or 1	01074	Agriculture IV	½ or 1	01074	Agriculture IV	½ or 1
01080	CASE – Intro to AFNR	½ or 1	01080	CASE – Intro to AFNR	½ or 1	01080	CASE – Intro to AFNR	½ or 1	01080	CASE – Intro to AFNR	½ or 1
Agribusiness Systems			Power, Structural & Technical Systems			Natural Resources					
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
01034	Agricultural Sales & Service	½ or 1	01043	Agricultural Mechanics Technology I	½ or 1	01053	Botany/Horticulture Science I	½ or 1			
01035	Agricultural Business Management	½ or 1	01044	Agricultural Mechanics Technology II	½ or 1	01054	Botany/Horticulture Science II	½ or 1			
01069	World Agricultural Science and Technology	½ or 1	01045	Agricultural Mechanics Power Systems	½ or 1	01063	Natural/Environmental Resources	½ or 1			
01993	Community Development	½ or 1	01046	Agricultural Welding & Fabrication	½ or 1	01069	World Agriculture Science and Technology	½ or 1			
01995	Supervised Agricultural Experience	¼ to 2	01047	Advanced Ag Welding & Fabrication	½ or 1	01990	Individual Agricultural Studies	½ or 1			
01999	Cooperative Work Experience	½ or 1	01990	Individual Agricultural Studies	½ or 1	01993	Community Development	½ or 1			
01990	Individual Agricultural Studies	½ or 1	01995	Supervised Agricultural Experience	¼ to 2	01995	Supervised Agricultural Experience	¼ to 2			
			01999	Cooperative Work Experience	½ or 1	01999	Cooperative Work Experience	½ or 1			
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits					

Agricultural Education											
Agriculture, Food & Natural Resources 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
01011	Introduction to Agriculture	½ or 1	01011	Introduction to Agriculture	½ or 1	01011	Introduction to Agriculture	½ or 1	01011	Introduction to Agriculture	½ or 1
01021	Agriscience Technology I	½ or 1	01021	Agriscience Technology I	½ or 1	01021	Agriscience Technology I	½ or 1	01021	Agriscience Technology I	½ or 1
01012	Foundations of Agriculture	½ or 1	01012	Foundations of Agriculture	½ or 1	01012	Foundations of Agriculture	½ or 1	01012	Foundations of Agriculture	½ or 1
01022	Agriscience Technology II	½ or 1	01022	Agriscience Technology II	½ or 1	01022	Agriscience Technology II	½ or 1	01022	Agriscience Technology II	½ or 1
01073	Agriculture III	½ or 1	01073	Agriculture III	½ or 1	01073	Agriculture III	½ or 1	01073	Agriculture III	½ or 1
01023	Agriscience Technology III	½ or 1	01023	Agriscience Technology III	½ or 1	01023	Agriscience Technology III	½ or 1	01023	Agriscience Technology III	½ or 1
01074	Agriculture IV	½ or 1	01074	Agriculture IV	½ or 1	01074	Agriculture IV	½ or 1	01074	Agriculture IV	½ or 1
01080	CASE – Intro to AFNR	½ or 1	01080	CASE – Intro to AFNR	½ or 1	01080	CASE – Intro to AFNR	½ or 1	01080	CASE – Intro to AFNR	½ or 1
Environmental Services Systems			Food Products & Processing Systems			Plant Systems			Animal Systems		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
01053 – 54	Botany/Horticulture Science	½ or 1	01068	Agriculture Processing	½ or 1	01082	CASE – Principles of Agricultural Science-Plant	½ or 1	01081	CASE – Principles of Agricultural Science-Animal	½ or 1
01043 - 44	Agricultural Mechanics Technology	½ or 1	01990	Individual Agricultural Studies	½ or 1	01025	Agronomy Science	½ or 1	01061	Livestock Production	½ or 1
01063	Natural/Environmental Resources	½ or 1	01995	Supervised Agricultural Experience	¼ to 2	01053	Botany/Horticulture Science I	½ or 1	01062	Equine Science	½ or 1
01069	World Agricultural Science and Technology	½ or 1	01999	Cooperative Work Experience	½ or 1	01054	Botany/Horticulture Science II	½ or 1	01066	Small Animal Care	½ or 1
01088	CASE Environmental Issues	½ or 1				01069	World Agriculture Science and Technology	½ or 1	01067	Veterinary Science	½ or 1
01990	Individual Agricultural Studies	½ or 1				01990	Individual Agricultural Studies	½ or 1	01068	Agriculture Processing	½ or 1
01993	Community Development	½ or 1				01995	Supervised Agricultural Experience	¼ to 2	01069	World Agriculture Science and Technology	½ or 1
01995	Supervised Agricultural Experience	¼ to 2				01999	Cooperative Work Experience	½ or 1	01990	Individual Agricultural Studies	½ or 1
01999	Cooperative Work Experience	½ or 1							01995	Supervised Agricultural Experience	¼ to 2
									01999	Cooperative Work Experience	½ or 1
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits		

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

Business Education

Business Management & Administration Career Cluster						Finance Career Cluster		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
14230/04080	Business Fundamentals/ Principles of Marketing	½ or 1	14230/04080	Business Fundamentals/ Principles of Marketing	½ or 1	14230/04080	Business Fundamentals/ Principles of Marketing	½ or 1
14025	Spreadsheets	¼ or ½	14060	Business Communication	½ or 1	14025	Spreadsheets	¼ or ½
14060	Business Communication	½ or 1	14010	Accounting I	½	14060	Business Communication	½ or 1
14010	Accounting I	½	14011	Accounting II	½	14010	Accounting I	½
14011	Accounting II	½	14016	Business Finance	½	14011	Accounting II	½
14095/04081	Financial Literacy/ Principles of Finance	½ or 1/ ½	14090	Business Law	½ or 1	14016	Business Finance	½
			14151	Economics (CTE)	¼, ½ or 1	14090	Business Law	½ or 1
			14024	Business Computer Applications	½ or 1	14151	Economics (CTE)	¼, ½ or 1
			14095/04081	Financial Literacy/ Principles of Finance	½ or 1/ ½	14024	Business Computer Applications	½ or 1
						14095/04081	Financial Literacy/ Principles of Finance	½ or 1/ ½
Administrative Support			General Management			Accounting		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
14096	Word Processing	¼, ½ or 1	14231	Management I*	½	14012	Accounting III	½
14098	Desktop Publishing	¼, ½ or 1	14232	Management II*	½	14013	Accounting IV	½
14099	Multimedia I	½ or 1	14111	Entrepreneurship	½ or 1	14014	Forensic Accounting	½
14100	Multimedia II	½ or 1	14233	Global Management	½	14015	Entrepreneurial Accounting	½
14028	Communication Technologies	½ or 1	14234	Operations Management	½	14999	Cooperative Work Experience	½ to 2
14022	Web Design	½ or 1	14999	Cooperative Work Experience	½ to 2			
14026	Database	¼ or ½						
14079	Business Technology & Procedures	½ or 1						
14999	Cooperative Work Experience	½ to 2						
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits		

*04223 Management can be used in place of 14231/2 Management I and II

Gray cells not funded by CTE

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

Family and Consumer Sciences Education

Human Services Career Cluster						Hospitality & Tourism Career Cluster			Arts, A/V Technology & Communications Cluster			Education & Training Career Cluster		
Course Code	Description	No. of Cr	Course Code	Description	No. of Cr	Course Code	Description	No. of Cr	Course Code	Description	No. of Cr	Course Code	Description	No. of Cr
09022	Family & Consumer Sciences I	¼, ½, 1	09022	Family & Consumer Sciences I	¼, ½, 1	09022	Family & Consumer Sciences I	¼, ½, 1	09022	Family & Consumer Sciences I	¼, ½, 1	09022	Family & Consumer Sciences I	¼, ½, 1
09023	Family & Consumer Sciences II	½ or 1	09023	Family & Consumer Sciences II	½ or 1	09023	Family & Consumer Sciences II	½ or 1	09023	Family & Consumer Sciences II	½ or 1	09023	Family & Consumer Sciences II	½ or 1
09024	Family & Consumer Sciences III	½ or 1	09024	Family & Consumer Sciences III	½ or 1	09024	Family & Consumer Sciences III	½ or 1	09024	Family & Consumer Sciences III	½ or 1	09024	Family & Consumer Sciences III	½ or 1
09025	Independent Living	½ or 1	09025	Independent Living	¼, ½, 1	09025	Independent Living	¼, ½, 1	09025	Independent Living	¼, ½, 1	09025	Independent Living	½ or 1
09026	Child Development	½ or 1	09026	Child Development	¼, ½, 1	09028	Consumer & Resource Management	¼, ½, 1	09028	Consumer & Resource Management	¼, ½, 1	09028	Consumer & Resource Management	¼, ½, 1
09028	Consumer & Resource Management	¼, ½, 1	09028	Consumer & Resource Management	¼, ½, 1	09129	Individual & Family Health	¼, ½, 1	09140	Individual Family & Consumer Sciences Studies	¼, ½, 1	09140	Individual Family & Consumer Sciences Studies	¼, ½, 1
09129	Individual & Family Health	¼, ½, 1	09129	Individual & Family Health	¼, ½, 1	09140	Individual Family & Consumer Sciences Studies	¼, ½, 1						
09130	Parenting	¼, ½, 1	09130	Parenting	¼, ½, 1	09131	Nutrition and Foods Prep I	½ or 1						
09132	Family Living	¼, ½, 1	09132	Family Living	¼, ½, 1	09137	Nutrition & Fitness	½ or 1						
09140	Individual Family & Consumer Sciences Studies	¼, ½, 1	09140	Individual Family & Consumer Sciences Studies	¼, ½, 1									
09131	Nutrition & Food Prep I	½ or 1												
09137	Nutrition & Fitness	½ or 1												
Family & Community Services			Early Childhood Development & Services			Restaurants & Food/Beverage Services			Visual Arts			Teaching/Training		
Course Code	Description	No. of Cr	Course Code	Description	No. of Cr	Course Code	Description	No. of Cr	Course Code	Description	No. of Cr	Course Code	Description	No. of Cr
09299	Cooperative Work Experience	½ to 4	09131	Nutrition & Food Prep I	½ or 1	09135	Nutrition and Foods Prep II	½ or 1	09027	Clothing & Textiles I	½ or 1	09041	Teaching Profession	½ or 1, Max 2
			09137	Nutrition & Fitness	½ or 1	09136	Cultures & Cuisine	½ or 1	09029	Clothing & Textiles II	½ or 1	09042	Education Methodology	½ or 1, Max 2
			09211	Early Childhood Care & Education Services	1, 2	09138	Food Science & Technology	½ or 1	09030	Fashion & Textile Trends	½ or 1	09026	Child Development	¼, ½, 1
			09250	Occupational Exploration	½ or 1	09213	Food Service/Culinary Arts	1 or 2	09037	Current Topics in Textiles & Apparel	½ or 1	09130	Parenting	¼, ½, 1
			09299	Cooperative Work Experience	½ to 4	09250	Occupational Exploration	½ or 1	09133	Housing & Living Environments	¼, ½, 1	09211	Early Childhood Care & Education Services	1, 2
						09299	Cooperative Work Experience	½ to 4	09212	Clothing & Textile Services	1, 2	09250	Occupational Exploration	½ or 1
									09250	Occupational Exploration	½, 1	09299	Cooperative Work Experience	½ to 4
									09299	Cooperative Work Experience	½ to 4			
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits		

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

Health Sciences Education

Health Science Career Cluster												Business Management & Administration 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	Course Code	Description	No. of Credits
37080	CTE Health Careers Cluster	½ or 1	37080	CTE Health Careers Cluster	½ or 1	37080	CTE Health Careers Cluster	½ or 1	37080	CTE Health Careers Cluster	½ or 1			
07036	Medical Terminology	½ or 1	07036	Medical Terminology	½ or 1	07036	Medical Terminology	½ or 1	07036	Medical Terminology	½ or 1			
07033	Health Sciences I	1 or 2	07033	Health Sciences I	1 or 2	07033	Health Sciences I	1 or 2	07033	Health Sciences I	1 or 2			
07035	Health Sciences II	1 or 2	07035	Health Sciences II	1 or 2	07035	Health Sciences II	1 or 2	07035	Health Sciences II	1 or 2			
Diagnostic Services			Health Informatics			Therapeutic Services			Biotechnology Research & Development			Human Resources Management		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
07034	Prevention/Care of Athletic Injuries	½ or 1	07040	Medical Records	1 or 2	07031	Nurse Assistant Foundations	½ or 1	10710	Biomedical Technology	½ or 1	07021	Sign Language I	½ or 1
07999	Health Education Supervised Occupational Experience	½ to 4	07999	Health Education Supervised Occupational Experience	½ to 4	07032	Nurse Assistant	½ or 1	10730	PLTW Principles of Biomedical Science	½ or 1	07022	Sign Language II	½ or 1
						07044	Emergency Medical Services Foundations	½ or 1	10732	PLTW Human Body Systems	½ or 1	07023	Sign Language III	½ or 1
						07045	Emergency Medical Services	1 or 2	10734	PLTW Medical Interventions	½ or 1	07024	Sign Language IV	½ or 1
						07046	Advanced EMS	1 or 2	07999	Health Education Supervised Occupational Experience	½ to 4	07025	Sign Language Cooperative Education	1
						07999	Health Education Supervised Occupational Experience	½ to 4				07999	Health Education Supervised Occupational Experience	½ to 4
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits		

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

Information Technology Education

Information Technology Career Cluster

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		

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

Marketing Education

Marketing Career Cluster

Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
04080/ 14230	Principles of Marketing/ Business Fundamentals	½ or 1	04080/ 14230	Principles of Marketing/ Business Fundamentals	½ or 1
04239	Principles of Sports & Entertainment Marketing	½	04210	Marketing I	1
04210	Marketing I	1	04235	Social Media Marketing	½ or 1
04235	Social Media Marketing	½ or 1	04081/ 14095	Principles of Finance/ Financial Literacy	½ / ½ or 1
04081/ 14095	Principles of Finance/ Financial Literacy	½ / ½ or 1	04110	Principles of Entrepreneurship	½ or 1
Professional Sales/Merchandising/Marketing Communication			Marketing Management		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
04215	Marketing II	1	04215	Marketing II	1
04223/ 14231 & 14232	Management/ Management I & II	1/ ½ & ½	04245	Hospitality Marketing	½ or 1
04240	Sports & Entertainment Marketing	½ or 1	04310	International Marketing	½
04290	School Based Enterprise	½ or 1	04082	Business Finance	½ or 1
04999	Cooperative Work Experience	½ or 1	04111	Entrepreneurship	½ or 1
			04290	School Based Enterprise	½ or 1
			04999	Cooperative Work Experience	½ or 1
Must complete at least 2 credits			Must complete at least 2 credits		

Gray cells not funded by CTE

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

Technology & Engineering Education					
Science, Technology, Engineering & Mathematics Career Cluster			Manufacturing Career Cluster		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
10510	Invention & Innovation	½ or 1	10510	Invention & Innovation	½ or 1
10515	Technological Systems	½ or 1	10515	Technological Systems	½ or 1
Engineering & Technology			Manufacturing Production Process Development		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
10094	Foundations of Technology	½ or 1	10093	*Applying Technology	½ or 2
10096	Technology & Society	½ or 1	10111	*Construction Technology	½ or 1
10338	Advanced Design Applications	½ or 1	10121	*Manufacturing Technology	½ or 1
10339	Advanced Technological Applications	½ or 1	10251	*Communication Technology	½ or 1
10410	Technological Design	½ or 1	10259	*Design/Drafting	½ or 1
10411	*Robotics Engineering	½ or 1	10260	*3D Modeling & Design	½ or 1
10415	Engineering Design	½ or 1	10331	*Energy & Transportation Technology	½ or 1
10511	**PLTW Introduction to Engineering Design	½ or 1	10411	*Robotics Engineering	½ or 1
10512	**PLTW Digital Electronics	½ to 1	10999	Cooperative Work Experience	½ or 1
10513	**PLTW Principles of Engineering	½ or 1			
10514	**PLTW Civil Engineering and Architecture	½ or 1			
10518	**PLTW Environmental Sustainability	½ or 1			
10610	STEM Seminar	½ or 1			
10520	**PLTW Engineering Essentials	½ or 1			
10519	**PLTW Engineering Design and Development	½ or 1			
10999	Cooperative Work Experience	½ or 1			
Must complete at least 2 credits			Must complete at least 2 credits		

Technology & Engineering Education					
Information Technology Career Cluster			Health Science Career Cluster		
Course Code	Description	No. of Credits	Course Code	Course Code	Description
10510	Invention and Innovation	½ or 1	10510		Invention and Innovation
10515	Technological Systems	½ or 1	10515		Technological Systems
Programming and Software Development			Biotechnology Research & Development		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
10820	**PLTW Cybersecurity	½ or 1	10710	*Biomedical Technology	½ or 1
10810	**PLTW Computer Science Essentials	½ or 1	10730	**PLTW Principles of Biomedical Science	½ or 1
10815	**PLTW Computer Science Principles	½ or 1	10732	**PLTW Human Body Systems	½ or 1
10999	Cooperative Work Experience	½ or 1	10734	**PLTW Medical Interventions	½ or 1
			10999	Cooperative Work Experience	½ or 1
Must complete at least 2 credits			Must complete at least 2 credits		

*No CTE Recommended Curriculum Available

**PLTW Endorsement required to teach this course

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

Trade, Industry & Technical Education

Transportation, Distribution & Logistics Career Cluster						Architecture & Construction 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	Course Code	Description	No. of Credits
37170	Transportation, Distribution & Logistics Cluster	½ or 1	37170	Transportation, Distribution & Logistics Cluster	½ or 1	37020	Architecture & Construction Cluster	½ or 1	37020	Architecture & Construction Cluster	½ or 1	37020	Architecture & Construction Cluster	½ or 1
Transportation Operations			Facility and Mobile Equipment Maintenance			Construction			Maintenance/Operations			Design/Pre-Construction		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
17812	Aviation Technology I	1 or 2	17030	Auto Collision Tech I	1 or 2	17105	Foundations of Building Trades	½ or 1	17110	Facilities Maintenance I	1 or 2	17130	Drafting Technology I	1 or 2
17813	Aviation Technology II	1 or 2	17031	Auto Collision Tech II	2	17100	Building Trades I	1 or 2	17118	Facilities Maintenance II	2	17131	Drafting Technology II	2
17045	Commercial Driver License	1	17029	Foundations of Automotive	½ or 1	17101	Building Trades Summer Academy	½	17120	Residential Plumbing	2	10511	*PLTW Introduction to Engineering Design (IED)	1
17814	Unmanned Aircraft Systems	1 or 2	17032	Auto Tech I	1 or 2	17117	Building Trades II	2	17115	Sheet Metal Technology	2	17950	T&I Capstone	½ or 1
17950	T&I Capstone	½ or 1	17036	Automotive Technology Summer Academy	½ or 1	17120	Residential Plumbing	2	17112	HVAC	2	17999	Cooperative Work Experience	½ to 4
17999	Cooperative Work Experience	½ to 4	17037	Auto Tech II	2	17112	HVAC	2	17950	T&I Capstone	½ or 1			
			17038	Auto General Service Tech I	1 or 2	17125	Electrical Technology	2	17999	Cooperative Work Experience	½ to 4			
			17039	Auto General Service Tech II	2	17950	T&I Capstone	½ or 1						
			17035	Parts & Merchandise Management	2	17999	Cooperative Work Experience	½ to 4						
			17040	Diesel Tech	1 or 2									
			17041	Diesel Technology II	2									
			17310	Recreational Small Engine Technology I	1 or 2									
			17311	Recreational Small Engine Technology	2									
			17950	T&I Capstone	½ or 1									
			17999	Cooperative Work Experience	½ to 4									
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits		

Trade, Industry & Technical Education

Manufacturing Career Cluster					Hospitality & Tourism Career Cluster			Arts, AV Technology & Communications Career Cluster			Agriculture, Food & Natural Resources Career Cluster			
Course Code	Description	No. of Credits	Course Code	Description	No. of Cr	Course Code	Description	No. of Credits	Course Code	Description	No. of Cr	Course Code	Description	No. of Credits
37140	Manufacturing Cluster	½ or 1	37140	Manufacturing Cluster	½ or 1				37030	Arts, A/V Technology & Communications Cluster	½ or 1			
Production			Manufacturing Production Process Development			Restaurants & Food/Beverage Services			Visual Arts			Natural Resources Systems		
Course Code	Description	No. of Credits	Course Code	Description	No. of Cr	Course Code	Description	No. of Credits	Course Code	Description	No. of Cr	Course Code	Description	No. of Credits
17236	Welding Technology I	1 or 2	17150	Electronics Technology I	1 or 2	17050	Culinary Arts I	1 or 2	17072	Commercial Art I	1 or 2	17410	Exploration of Oil Industry	½ or 1
17237	Welding Technology II	2	17151	Electronics Technology II	1 or 2	17051	Culinary Arts II	2	17073	Commercial Art II	2	17413	Petroleum Industry Skills	½ or 1
17238	Virtual Center Welding Technology Summer Academy	½	17152	Electronics Technology III	1 or 2	17950	T&I Capstone	½ or 1	17080	Photography	1 or 2	17950	T&I Capstone	½ or 1
17230	Machine Tooling Technology	1 or 2	17950	T&I Capstone	½ or 1	17999	Cooperative Work Experience	½ to 4	17190	Graphic Communications I	1 or 2	17999	Cooperative Work Experience	½ to 4
17113	Automated Manufacturing	1 or 2	17999	Cooperative Work Experience	½ to 4				17191	Graphic Communications II	2			
17950	T&I Capstone	½ or 1	37140	Manufacturing Cluster	½ or 1				17140	Audio/Visual Production	1 or 2			
17999	Cooperative Work Experience	½ to 4							17950	T&I Capstone	½ or 1			
37140	Manufacturing Cluster	½ or 1							17999	Cooperative Work Experience	½ to 4			
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits		