

Agriculture Education – Coordinated Plans of Study for ND Career and Technical Education or Academic Scholarships								
Agriculture, Food & Natural Resources Career Cluster								
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
01011	*Introduction to Agriculture	½ or 1	01011	*Introduction to Agriculture	½ or 1	01011	*Introduction to 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
01073	*Agriculture III	½ or 1	01073	*Agriculture III	½ or 1	01073	*Agriculture III	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
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 Technology III	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		

Agriculture Education – Coordinated Plans of Study for ND Career and Technical Education or Academic Scholarships											
Agriculture, Food & Natural Resources Career Cluster											
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
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
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
01073	*Agriculture III	½ or 1	01068	Agriculture Processing	½ or 1	01073	*Agriculture III	½ or 1	01073	*Agriculture III	½ or 1
01074	*Agriculture IV	½ or 1	01073	*Agriculture III	½ or 1	01074	*Agriculture IV	½ or 1	01074	*Agriculture IV	½ or 1
01080	CASE – Intro to AFNR	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
01053 – 54	Botany/Horticulture Science	½ or 1	01080	CASE – Intro to AFNR	½ or 1	01053	Botany/Horticulture Science I	½ or 1	01068	Agriculture Processing	½ or 1
01043 - 47	Agricultural Mechanics Technology	½ or 1	01990	Individual Agricultural Studies	½ or 1	01054	Botany/Horticulture Science II	½ or 1	01069	World Agriculture Science and Technology	½ or 1
01063	Natural/Environmental Resources	½ or 1	01995	Supervised Agricultural Experience	¼ to 2	01069	World Agriculture Science and Technology	½ or 1	01990	Individual Agricultural Studies	½ or 1
01069	World Agricultural Science and Technology	½ or 1	01999	Cooperative Work Experience	½ or 1	01990	Individual Agricultural Studies	½ or 1	01995	Supervised Agricultural Experience	¼ to 2
01990	Individual Agricultural Studies	½ or 1				01995	Supervised Agricultural Experience	¼ to 2	01999	Cooperative Work Experience	½ or 1
01993	Community Development	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		

Interchangeable:

- 01021 Agriscience Technology I or 01011 Introduction to Agriculture;
- 01022 Agriscience Technology II or 01012 Foundations of Agriculture;
- 01023 Agriscience Technology III or 01073 Agriculture III;
- 01025 Agriscience Technology IV or 01074 Agriculture IV.

Business & Office Technology – Coordinated Plans of Study for ND Career and Technical Education or Academic Scholarships								
Business Management & Administration Career Cluster						Finance Career Cluster		
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	14230	Business Fundamentals	½ or 1	14010	Accounting I	½
14025	Spreadsheets	¼ or ½	14231	Management I	½	14011	Accounting II	½
14098	Desktop Publishing	¼, ½ or 1	14232	Management II	½	14025	Spreadsheets	¼ or ½
14099	Multimedia	½ or 1	14010	Accounting I	½	14012	Accounting III	½
14060	Business Communication	½ or 1	14011	Accounting II	½	14013	Accounting IV	½
14028	Communication Technologies	½ or 1	14016	Business Finance	½	14060	Business Communication	½ or 1
14022	Web Design	½ or 1	14111	Entrepreneurship	½ or 1	14016	Business Finance	½
14026	Database	¼ or ½	14233	Global Management	½	14014	Forensic Accounting	½
14010	Accounting I	½	14234	Operations Management	½	14015	Entrepreneurial Accounting	½
14011	Accounting II	½	14090	Business Law	½ or 1	14230	Business Fundamentals	½ or 1
14079	Business Technology & Procedures	½ or 1	14060	Business Communication	½ or 1	14090	Business Law	½ or 1
14230	Business Fundamentals	½ or 1	14024	Business Computer Applications	½ or 1	14024	Business Computer Applications	½ or 1
14095	Financial Literacy	½ or 1	14095	Financial Literacy	½ or 1	14095	Financial Literacy	½ or 1
14999	Cooperative Work Experience	½ to 2	14999	Cooperative Work Experience	½ to 2	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		

High School of Business		
Business Management & Administration Career Cluster		
General Management		
Course Code	Description	No. of Credits
04311	HSB: Leadership for Business	½
04312	HSB: Wealth Management	½
04323	HSB: Principles of Business	½
04314	HSB: Business Economics	½
04315	HSB: Principles of Marketing	½
04316	HSB – Principles of Finance	½
04317	HSB – Principles of Management	½
04318	HSB – Business Strategies	½
Credential required to teach these HSB courses: CTE BOT or Marketing AND High Schools of Business Training		
Must complete at least 2 credits		

Family and Consumer Sciences – Coordinated Plans of Study for ND Career and Technical Education or Academic Scholarships											
Human Services Career Cluster						Hospitality & Tourism Career Cluster			Arts, A/V Technology & Communications Cluster		
Family & Community Services			Early Childhood Development & Services			Restaurants & Food/Beverage Services			Visual Arts		
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
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
09025	Independent Living	½ or 1	09025	Independent Living	¼, ½, 1	09025	Independent Living	¼, ½, 1	09025	Independent Living	¼, ½, 1
09026	Child Development	½ or 1	09026	Child Development	¼, ½, 1	09028	Consumer & Resource Management	¼, ½, 1	09027	Clothing & Textiles I	½ or 1
09028	Consumer & Resource Management	¼, ½, 1	09028	Consumer & Resource Management	¼, ½, 1	09129	Individual & Family Health	¼, ½, 1	09028	Consumer & Resource Management	¼, ½, 1
09129	Individual & Family Health	¼, ½, 1	09129	Individual & Family Health	¼, ½, 1	09131	Nutrition and Foods Prep I	½ or 1	09029	Clothing & Textiles II	½ or 1
09130	Parenting	¼, ½, 1	09130	Parenting	¼, ½, 1	09135	Nutrition and Foods Prep II	½ or 1	09030	Fashion & Textile Trends	½ or 1
09131	Nutrition & Food Prep I	½ or 1	09132	Family Living	¼, ½, 1	09136	Cultures & Cuisine	½ or 1	09037	Current Topics in Textiles & Apparel	½ or 1
09132	Family Living	¼, ½, 1	09140	Individual Family & Consumer Sciences Studies	¼, ½, 1	09137	Nutrition & Fitness	½ or 1	09133	Housing & Living Environments	¼, ½, 1
09137	Nutrition & Fitness	½ or 1	09211	Early Childhood Care & Education Services	1, 2	09138	Food Science & Technology	½ or 1	09140	Individual Family & Consumer Sciences Studies	¼, ½, 1
09140	Individual Family & Consumer Sciences Studies	¼, ½, 1	09250	Occupational Exploration	½ or 1	09140	Individual Family & Consumer Sciences Studies	¼, ½, 1	09212	Clothing & Textile Services	1, 2
			09299	Cooperative Work Experience	½ to 2	09213	Food Service/Culinary Arts	1,2	09250	Occupational Exploration	½, 1
						09250	Occupational Exploration	½ or 1	09299	Cooperative Work Experience	½ to 2
						09299	Cooperative work Experience	½ to 2			
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits		

Health Careers – Coordinated Plans of Study for ND Career and Technical Education & Academic Scholarships					
Health Science Career Cluster			Business Management & Administration Career Cluster		
Therapeutic Services			Human Resources Management		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
07032	Nurse Assistant	½ or 1	07021	Sign Language I	½
07033	Health Careers I	1 or 2	07022	Sign Language II	½
07034	Prevention/Care of Athletic Injuries	½ or 1	07023	Sign Language III	½
07035	Advanced Health Careers	1 or 2	07024	Sign Language IV	½
07036	Medical Terminology	½ or 1	07025	Sign Language Cooperative Education	1
07045	Emergency Medical Services	1 or 2	07999	Health Education Supervised Occupational Experience	½ to 2
07046	Advanced EMS	1 or 2			
07999	Health Education Supervised Occupational Experience	½ to 2			
37080	CTE Health Careers Cluster*	½ or 1			
Must complete at least 2 credits			Must complete at least 2 credits		

Information Technology – Coordinated Plans of Study for ND Career and Technical Education or Academic Scholarships											
Information Technology Career Cluster											
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
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
27220	IT Essentials 2	½ or 1	27219	Computer Hardware and Operating Systems (A+)	½, 1, 2	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	27300	Essentials of Desktop Operating Systems	½ or 1	27170	Introduction to Web Design	½ or 1	27122	Programming Essentials	½ or 1
27265	Introduction to Networking	½ or 1	27310	Essentials of Network Operating Systems	½ or 1	27180	CIW Foundations	½ or 1	27125	Fundamentals of JAVA Programming	½ or 1
27266	CCNA Introduction to Networks	½ or 1	27400	Geographic Info Systems (GIS)	½ or 1	27185	CIW Site Design	½ or 1	27127	Advanced JAVA Programming	½ or 1
27267	CCNA Routing & Switching Essentials	½ or 1	27999	Cooperative Work Experience	½ to 2	27400	Geographic Info Systems (GIS)	½ or 1	27170	Introduction to Web Design	½ or 1
27268	CCNA Scaling Networks	½ or 1				27999	Cooperative Work Experience	½ to 2	27180	CIW Foundations	½ or 1
27269	CCNA Connecting Networks	½ or 1							27185	CIW Site Design	½ or 1
27999	Cooperative Work Experience	½ to 2							27500	Data Modeling & SQL	½ or 1
									27999	Cooperative Work Experience	½ to 2
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits		

Marketing Education – Coordinated Plans of Study for ND Career and Technical Education or Academic Scholarships					
Marketing Career Cluster					
Professional Sales/Merchandising/Marketing Communication			Marketing Management		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
04080	Principles of Marketing	½ or 1	04080	Principles of Marketing	½ or 1
04210	Marketing I	½ or 1	04081	Principles of Finance	½
04215	Marketing II	½ or 1	04082	Business Finance	½ or 1
04223	Management	1	04110	Principles of Entrepreneurship	½ or 1
04239	Principles of Sports & Entertainment Marketing	½	04111	Entrepreneurship	½ or 1
04240	Sports & Entertainment Marketing	½ or 1	04210	Marketing I	½ or 1
04310	International Marketing	½	04215	Marketing II	½ or 1
04290	School Based Enterprise	½ or 1	04223	Management	1
04999	Cooperative Work Experience	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		

High School of Business		
Business Management & Administration Career Cluster		
General Management		
Course Code	Description	No. of Credits
04311	HSB – Leadership for Business	½
04312	HSB – Wealth Management	½
04313	HSB – Principles of Business	½
04314	HSB – Business Economics	½
04315	HSB – Principles of Marketing	½
04316	HSB – Principles of Finance	½
04317	HSB – Principles of Management	½
04318	HSB – Business Strategies	½
Credential required to teach these HSB courses: CTE Marketing or Business and Office Technology AND High Schools of Business training		
Must complete at least 2 credits		

Technology & Engineering Education – Coordinated Plans of Study for ND Career and Technical Education or Academic Scholarships					
Science, Technology, Engineering & Mathematics Career Cluster			Manufacturing Career Cluster		
Engineering & Technology			Manufacturing Production Process Development		
Course Code	Description	No. of Cr	Course Code	Description	No. of Cr
10094	Foundations of Technology	½ or 1	10091	Individual Technical Problems	½ or 1
10095	Impacts of Technology	½ or 1	10093	Applying Technology	½ or 1
10096	Technology & Society	½ or 1	10110	Production Technology	½ or 1
10338	Probbase - Advanced Design Applications	½ or 1	10111	Construction Technology	½ or 1
10339	Probbase - Advanced Tech Applications	½ or 1	10121	Manufacturing Technology	½ or 1
10410	Technological Design	½ or 1	10251	Communication Technology	½ or 1
10415	Engineering Design	½ or 1	10259	Design/Drafting	½ or 1
10510	Invention & Innovation	½ or 1	10260	3D Modeling & Design	½ or 1
10511	*PLTW Introduction to Engineering Design	½ or 1	10331	Energy & Transportation Technology	½ or 1
10512	*PLTW Digital Electronics	½ or 1	10411	Robotics Engineering	½ or 1
10513	*PLTW Principles of Engineering	½ or 1	10999	Cooperative Work Experience	½ or 1
10514	*PLTW Civil Engineering and Architecture	½ or 1			
10515	Technological Systems	½ or 1			
10517	*PLTW Computer Integrated Manufacturing	½ or 1			
10610	STEM Seminar	½ or 1			
10710	Biomedical Technology	½ or 1			
10999	Cooperative Work Experience	½ or 1			
*PLTW Endorsement required to teach this course					
Must complete at least 2 credits			Must complete at least 2 credits		

Trade, Industry & Technical Education – Coordinated Plans of Study for ND Career and Technical Education or Academic Scholarships														
Transportation, Distribution & Logistics Career Cluster						Architecture & Construction Career Cluster								
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	17100	Construction Technology I	1 or 2	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	17101	Virtual Center Construction Technology Summer Academy	½	17118	Facilities Maintenance II	2	17131	Drafting Technology II	2
17999	Cooperative Work Experience	½ to 2	17032	Auto Tech I	1 or 2	17117	Construction Technology II	2	17120	Residential Plumbing	2	10511	*PLTW Introduction to Engineering Design (IED)	1
			17037	Auto Tech II	2	17120	Residential Plumbing	2	17115	Sheet Metal Technology	2	17999	Cooperative Work Experience	½ to 2
			17038	Auto General Service Tech I	1 or 2	17112	HVAC	2	17112	HVAC	2	37020	Architecture & Construction Cluster	½ or 1
			17039	Auto General Service Tech II	2	17125	Electrical Technology	2	17999	Cooperative Work Experience	½ to 2			
			17035	Parts & Merchandise Management	2	17999	Cooperative Work Experience	½ to 2	37020	Architecture & Construction Cluster	½ or 1			
			17040	Diesel Tech	2	37020	Architecture & Construction Cluster	½ or 1						
			17310	Recreational Small Engine Technology I	1 or 2									
			17311	Recreational Small Engine Technology	2									
			17999	Cooperative Work Experience	½ to 2									
			37170	Transportation, Distribution & Logistics Cluster	½ or 1									*PLTW Endorsement required to teach this course
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 – Coordinated Plans of Study for ND Career and Technical Education or Academic Scholarships														
Manufacturing Career Cluster						Hospitality & Tourism Career Cluster			Arts, AV Technology & Communications Career Cluster			Agriculture, Food & Natural Resources Career Cluster		
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	17999	Cooperative Work Experience	½, 1, or 2	17080	Photography	1 or 2			
17230	Machine Tooling Technology	1 or 2	17999	Cooperative Work Experience	½ to 2				17190	Graphic Communications I	1 or 2			
17113	Automated Manufacturing	1 or 2	37140	Manufacturing Cluster	½ or 1				17191	Graphic Communications II	2			
17999	Cooperative Work Experience	½ to 2							17140	Television Production	1 or 2			
37140	Manufacturing Cluster	½ or 1							17999	Cooperative Work Experience	½ to 2			
									37030	Arts, A/V Technology & Communications Cluster	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			Must complete at least 2 credits		