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	01061	Livestock Production	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	01062	Equine Science	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	01066	Small Animal Care	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	01067	Veterinary Science	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	01080	CASE – Intro to AFNR	½ or 1
01990	Individual Agricultural Studies	½ or 1				01995	Supervised Agricultural Experience	¼ to 2	01068	Agriculture Processing	½ or 1
01993	Community Development	½ or 1				01999	Cooperative Work Experience	½ or 1	01069	World Agriculture Science and Technology	½ or 1
01995	Supervised Agricultural Experience	¼ to 2							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		

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 Education– Coordinated Plans of Study for ND Career and Technical Education or Academic Scholarships

Business Management & Administration Career Cluster

Administrative Support

Course Code	Description	No. of Credits
14096	Word Processing	¼, ½ or 1
14025	Spreadsheets	¼ or ½
14098	Desktop Publishing	¼, ½ or 1
14099	Multimedia	½ or 1
14060	Business Communication	½ or 1
14028	Communication Technologies	½ or 1
14022	Web Design	½ or 1
14026	Database	¼ or ½
14010	Accounting I	½
14011	Accounting II	½
14079	Business Technology & Procedures	½ or 1
14230/ 04080	Business Fundamentals/ Principles of Marketing	½ or 1
14095	Financial Literacy	½ or 1
14999	Cooperative Work Experience	½ to 2
Must complete at least 2 credits		

General Management

Course Code	Description	No. of Credits
14230/ 04080	Business Fundamentals/ Principles of Marketing	½ or 1
14231	Management I	½
14232	Management II	½
14010	Accounting I	½
14011	Accounting II	½
14016	Business Finance	½
14111	Entrepreneurship	½ or 1
14233	Global Management	½
14234	Operations Management	½
14090	Business Law	½ or 1
14060	Business Communication	½ or 1
14024	Business Computer Applications	½ or 1
14095	Financial Literacy	½ or 1
14999	Cooperative Work Experience	½ to 2
Must complete at least 2 credits		

Finance Career Cluster

Accounting

Course Code	Description	No. of Credits
14010	Accounting I	½
14011	Accounting II	½
14025	Spreadsheets	¼ or ½
14012	Accounting III	½
14013	Accounting IV	½
14060	Business Communication	½ or 1
14016	Business Finance	½
14014	Forensic Accounting	½
14015	Entrepreneurial Accounting	½
14230/ 04080	Business Fundamentals/ Principles of Marketing	½ or 1
14090	Business Law	½ or 1
14024	Business Computer Applications	½ or 1
14095	Financial Literacy	½ or 1
14999	Cooperative Work Experience	½ to 2
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 BE 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	27280	Introduction to Cybersecurity	½ or 1	27170	Introduction to Web Design	½ or 1	27122	Programming Essentials	½ or 1
27265	Introduction to Networking	½ or 1	27300	Essentials of Desktop 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	27310	Essentials of Network Operating Systems	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	27400	Geographic Info Systems (GIS)	½ or 1	27280	Introduction to Cybersecurity	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	27400	Geographic Info Systems (GIS)	½ or 1	27180	CIW Foundations	½ or 1
27269	CCNA Connecting Networks	½ or 1				27999	Cooperative Work Experience	½ to 2	27185	CIW Site Design	½ or 1
27280	Introduction to Cybersecurity	½ or 1							27280	Introduction to Cybersecurity	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

Course Code	Description	No. of Credits
04080/ 14230	Principles of Marketing/ Business Fundamentals	½ or 1
04210	Marketing I	1
04215	Marketing II	1
04223	Management	1
04235	Social Media Marketing	½ or 1
04239	Principles of Sports & Entertainment Marketing	½
04240	Sports & Entertainment Marketing	½ or 1
04310	International Marketing	½
04290	School Based Enterprise	½ or 1
04999	Cooperative Work Experience	½ or 1

Must complete at least 2 credits

Marketing Management

Course Code	Description	No. of Credits
04080/ 14230	Principles of Marketing/ Business Fundamentals	½ or 1
04081	Principles of Finance	½
04082	Business Finance	½ or 1
04110	Principles of Entrepreneurship	½ or 1
04111	Entrepreneurship	½ or 1
04210	Marketing I	1
04215	Marketing II	1
04223	Management	1
04235	Social Media Marketing	½ or 1
04290	School Based Enterprise	½ or 1
04999	Cooperative Work Experience	½ or 1

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 Education **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
10096	Technology & Society	½ or 1	10093	Applying Technology	½ or 1
10338	Advanced Design Applications	½ or 1	10110	Production Technology	½ or 1
10339	Advanced Tech Applications	½ or 1	10111	Construction Technology	½ or 1
10410	Technological Design	½ or 1	10121	Manufacturing Technology	½ or 1
10415	Engineering Design	½ or 1	10251	Communication Technology	½ or 1
10510	Invention & Innovation	½ or 1	10259	Design/Drafting	½ or 1
10511	*PLTW Introduction to Engineering Design	½ or 1	10260	3D Modeling & Design	½ or 1
10512	*PLTW Digital Electronics	½ or 1	10331	Energy & Transportation Technology	½ or 1
10513	*PLTW Principles of Engineering	½ or 1	10411	Robotics Engineering	½ or 1
10514	*PLTW Civil Engineering and Architecture	½ or 1	10999	Cooperative Work Experience	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			
10730	*PLTW Principles of Biomedical Science	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

Transportation Operations

Course Code	Description	No. of Credits
17812	Aviation Technology I	1 or 2
17813	Aviation Technology II	1 or 2
17045	Commercial Driver License	1
17999	Cooperative Work Experience	½ to 2