

Coordinated Plan of Study

North Dakota Career and Technical Education or Academic Scholarship

TRADE, INDUSTRY & TECHNICAL EDUCATION

Agriculture, Food & Natural Resources Career Cluster	
Course Code	Description
Natural Resource Systems Pathway	
Course Code	Description
17410	Exploration of Oil Industry
17413	Petroleum Industry Skills
17421	Energy: Equipment & Systems
17422	Energy: Print Reading
17423	Energy: Industry Science
17950	T&I Capstone
17999	Cooperative Work Experience

Architecture & Construction Career Cluster	
Course Code	Description
37020	Architecture & Construction Cluster
Construction Pathway	
Course Code	Description
17100	Building Trades I
17117	Building Trades II
17101	Building Trades Summer Academy
17045	Commercial Driver License
17125	Electrical Technology
17150	Electronics Technology I
17151	Electronics Technology II
17152	Electronics Technology III
17105	Foundations of Building Trades
17112	HVAC
17120	Residential Plumbing
17104	Woodworking
17950	T&I Capstone
17999	Cooperative Work Experience

Architecture & Construction Career Cluster	
Course Code	Description
37020	Architecture & Construction Cluster
Design/Pre-Construction Pathway	
Course Code	Description
10511	*PLTW Introduction to Engineering Design (IED)
17132	Computer-Aided Drafting
17130	Drafting Technology I
17131	Drafting Technology II
17105	Foundations of Building Trades
17950	T&I Capstone
17999	Cooperative Work Experience

Architecture & Construction Career Cluster	
Course Code	Description
37020	Architecture & Construction Cluster
Maintenance/Operations Pathway	
Course Code	Description
17150	Electronics Technology I
17151	Electronics Technology II
17152	Electronics Technology III
17110	Facilities Maintenance I
17118	Facilities Maintenance II
17201	Heavy Equipment Mechanics
17200	Heavy Equipment Operations
17112	HVAC
17120	Residential Plumbing
17950	T&I Capstone
17999	Cooperative Work Experience

Arts, AV Technology & Communications Career Cluster	
Course Code	Description
37030	Arts, A/V Technology & Communications Cluster
Visual Arts Pathway	
Course Code	Description
17072	Commercial Art I
17140	Audio/Visual Production
17073	Commercial Art II
17190	Graphic Communications I
17191	Graphic Communications II
17080	Photography
17950	T&I Capstone
17999	Cooperative Work Experience

Hospitality & Tourism Career Cluster	
Course Code	Description
Restaurants & Food/Beverage Services Pathway	
Course Code	Description
17050	Culinary Arts I
17051	Culinary Arts II
17950	T&I Capstone
17999	Cooperative Work Experience

Manufacturing Career Cluster	
Course Code	Description
37140	Manufacturing Cluster
Manufacturing Production Process Development Pathway	
Course Code	Description
17150	Electronics Technology I
17151	Electronics Technology II
17152	Electronics Technology III
17950	T&I Capstone
17999	Cooperative Work Experience

Manufacturing Career Cluster	
Course Code	Description
37140	Manufacturing Cluster
Production Pathway	
Course Code	Description
17113	Automated Manufacturing
17230	Machine Tooling Technology
17238	Virtual Center Welding Technology Summer Academy
17235	Welding Foundations
17236	Welding Technology I
17237	Welding Technology II
17511	Mechanical Drive Systems
17512	Hydraulic Fundamentals
17950	T&I Capstone
17999	Cooperative Work Experience

Transportation, Distribution & Logistics Career Cluster	
Course Code	Description
37170	Transportation, Distribution & Logistics Cluster
Facility & Mobile Equipment Maintenance Pathway	
Course Code	Description
17030	Auto Collision Tech I
17031	Auto Collision Tech II
17038	Auto General Service Tech I
17039	Auto General Service Tech II
17032	Auto Tech I
17037	Auto Tech II
17036	Automotive Technology Summer Academy
17040	Diesel Technology I
17041	Diesel Technology II
17150	Electronics Technology I
17029	Foundations of Automotive
17311	Recreational Small Engine Technology I
17310	Recreational Small Engine Technology II
17820	Aviation Mechanics
17950	T&I Capstone
17999	Cooperative Work Experience

Transportation, Distribution & Logistics Career Cluster	
Course Code	Description
37170	Transportation, Distribution & Logistics Cluster
Transportation Operations Pathway	
Course Code	Description
17812	Aviation Technology I
17813	Aviation Technology II
17045	Commercial Driver License
17814	Unmanned Aircraft Systems
17950	T&I Capstone
17999	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.
- *PLTW Endorsement required to teach this course.