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

Manufacturing Career Cluster	
Course Code	**Description**
10510	Invention & Innovation
10515	Technological Systems
Manufacturing Production Process Development Pathway	
Course Code	**Description**
10093	*Applying Technology
10111	*Construction Technology
10121	*Manufacturing Technology
10251	*Communication Technology
10259	*Design/Drafting
10260	*3D Modeling & Design
10331	*Energy & Transportation Technology
10411	*Robotics Engineering
10950	Capstone-Technology & Engineering Education
10999	Cooperative Work Experience

Science, Technology, Engineering & Mathematics Career Cluster	
Course Code	**Description**
10510	Invention & Innovation
10515	Technological Systems
Engineering & Technology Pathway	
Course Code	**Description**
10094	Foundations of Technology
10096	Technology & Society
10338	Advanced Design Applications
10339	Advanced Technological Applications
10410	Technological Design
10411	*Robotics Engineering
10415	Engineering Design
10511	**PLTW Introduction to Engineering Design
10512	**PLTW Digital Electronics
10513	**PLTW Principles of Engineering
10514	**PLTW Civil Engineering and Architecture
10518	**PLTW Environmental Sustainability
10610	STEM Seminar
10520	**PLTW Engineering Essentials
10519	**PLTW Engineering Design and Development
10950	Capstone-Technology & Engineering Education
10999	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.
- *No CTE recommended curriculum Available.
- **PLTW Endorsement required to teach this course.