

TECHNOLOGY & ENGINEERING EDUCATION				
Course Code	Course Name	Grade Levels	Description	License/credential Required**
10006	Applying Technology	7-8	This is an activity-based course addressing all 20 of the Standards for Technological Literacy using primarily a modular classroom environment.	License Code: 10005-Industrial Arts ◆ 7-12 or 9-12 OR 10007-Technology Education ◆ 7-12 or 9-12 OR 10010-Industrial Technology ◆ 7-12 or 9-12 OR 10007-Technology Education Master's ◆ 1-8
10007	Invention & Innovation	7-8	Invention and Innovation prepares students with opportunities to apply the design process in the invention or innovation of a new product, process, or system. Students learn about the core concepts of technology and about the various approaches to solving problems, including engineering design and experimentation. Students apply their creativity in the invention and innovation of new products, processes, or systems. Students participate in engineering-design activities where they learn about brainstorming, visualizing, modeling, constructing, testing, experimenting, and refining designs. Students also develop skills in researching for information, communicating design information, and reporting results. A state recommended course guide is available.	License Code: 10005-Industrial Arts ◆ 7-12 or 9-12 OR 10007-Technology Education ◆ 7-12 or 9-12 OR 10010-Industrial Technology ◆ 7-12 or 9-12 AND 10006-Middle School Technology Education Endorsement ◆ 5-8 OR 10007-Technology Education Master's ◆ 1-8
10008	Technological Systems	7-8	Technological Systems is designed to introduce students to systems and processes to develop an understanding of the impact of technology on humans, the environment, and the global community. It is intended to teach students to learn how systems work together to solve problems and capture opportunities. By investigating systems through their function, design, and development, students will understand what systems are, why they are developed and how 'systems thinking' can be used to describe them. Students engage in activities and experiences where they evaluate the impacts of technology through the lenses of culture, society, economics and the environment. A state recommended course guide is available.	OR 10007-Technology Education Master's ◆ 1-8
10105	Exploring Technology	7-8	Exploring Technology prepares students with an understanding of what is technology, the universal systems model, and opportunities to apply the engineering design process in problem solving. Students have opportunities to study the scope of technology and its impacts on society. They learn about the core concepts of technology and about the various approaches to solving problems, including engineering design and experimentation. Students are involved in activities and experiences where they learn about brainstorming, visualizing, modeling, constructing, testing, experimenting, and refining designs. Students also develop skills in researching for information and communicating design information. A state recommended course guide is available.	License Code: 10005-Industrial Arts ◆ 7-12 or 9-12 OR 10007-Technology Education ◆ 7-12 or 9-12 OR 10010-Industrial Technology ◆ 7-12 or 9-12 OR 10007-Technology Education Master's ◆ 1-8

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10108	PLTW GTT Foundations	7-8	This is a Project Lead the Way Gateway to Technology (GTT) course that consists of the Automation and Robotics, Design and Modeling and Energy and the Environment units. Students trace the history, development and influence of automation and robotics by designing, building and program solutions to existing problems. Students are introduced to and use the design process to solve problems and understand its effect on our lives. Students will also investigate the impact of energy on our lives and on the environment and evaluate energy consumption, efficiency and sustainability.	License Code: 10108-Project LEAD the WAY Endorsement (GTT Foundations) ◆ 7-12
10109	PLTW GTT Specialization	7-8	This is a Project Lead the Way Gateway to Technology (GTT) course that consists of the Flight and Space, Magic of Electrons and Science of Technology units. Students will explore the science behind aeronautics, design, build and test airfoils and use simulation software to “Experience” space travel. Students will explore the science of electricity, behavior of atoms and sensing devices. Students will also apply concepts in physics, chemistry and nanotechnology to STEM activities and projects.	License Code: 10109-Project LEAD the WAY Endorsement (GTT Specialization) ◆ 7-12