

# NEW CTE COURSES AT SHERIDAN HIGH SCHOOL



01

## AGRICULTURE MECHANICS

Grades 10-12

(Beginning Fall 2018) - Connecting scientific principles with mechanical skills, this course will enhance the student's understanding of traditional agriculture mechanics and will emphasize agricultural technology, including welding, electricity, internal combustion engines, metal technology, construction, and the development, role, and scope of mechanical technology in agriculture.



02

## INTRO TO ENGINEERING DESIGN

Grades 10-12

(Beginning Fall 2018) - Students will dig deep into the engineering design process applying math, science and engineering standards using hands-on projects. They will work both individually and in teams to design solutions to a variety of problems using 3-D modeling software.



03

## PRINCIPALS OF ENGINEERING

Grades 10-12

(Beginning Fall 2019) - Students will explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students will develop skills in problem-solving, research and design while learning strategies for design process documentation, collaboration and presentation.



04

## ENGINEERING TECHNOLOGY EDUCATION

Grade 8

(Beginning Fall 2018) - Students will develop an understanding of the history of technology involving information and communication, construction, manufacturing, energy, power, transportation and how they can be used to solve technological problems.



05

## COMPUTER-INTEGRATED MANUFACTURING

Grades 10-12

(Beginning Fall 2019) - Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course teaches students about manufacturing processes, product design, robotics and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system.



06

## PRE-APPRENTICESHIP

Grade 11

(Beginning January 2019) - Students will be able to become apprentices through the National Apprenticeship Training Program. Students will develop soft skills and gain valuable work experience and training from experts in advanced manufacturing and construction trades.



07

## COMPUTER SCIENCE INDEPENDENT STUDY

Grade 12

(Beginning Fall 2018) - This course will enrich students' computer science educational experience. Students will develop an educational plan and submit it to a local advisor or advisory board responsible for reviewing, monitoring and approving the plan. Students will produce a final product for presentation to complete the course.



08

## ENTREPRENEURSHIP

Grades 10-12

(Beginning Fall 2018) - Offering an overview of the American business enterprise system, this course includes the study of ownership, internal organization, management and financing. Content focuses on the concepts and practices of small business ownership and management; risk management; technology; legal, ethical, and social obligations; savings and investments; taxes; and government.