



South Dakota
PLTW
PROJECT LEAD THE WAY

Digital Electronics

Mrs. Carlson – D102
Pathway to Engineering
Project Lead the Way
CTE Academy
Sioux Falls, SD
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DE Course Description

Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, and high-definition televisions. The major focus of Digital Electronics is to expose students to the design process of combinational and sequential logic design, key elements of careers in engineering. Students design circuits to solve problems, export their designs to a printed circuit auto-routing program that generates printed circuit boards, and use appropriate components to build their designs.



DE Expectations

Project Lead the Way's Pathway to Engineering program is a pre-professional program. Participants in this program will be held to the highest academic and behavior standards.

Academic expectations include:

- Preparing for class and having all required materials on hand: pen/pencil, calculator, engineering notebook, 3-ring binder
- Completing activities and meeting project deadlines
- Working cooperatively with others
- Submitting ALL assignments on or before the assigned due date
- Using the PLTW Learning Management System to review course materials, receive messages and keep track of due dates

Behavior expectations include:

- Being punctual for all class meeting times
- Maintaining a clean and **SAFE** working environment
- Speaking respectfully to others
- Using all equipment **SAFELY** and for its intended purpose only

Late work policy:

- Assignments, Activities and Projects submitted after the assigned due date will be subject to a 10% grade reduction for each day past the due date
- Please do not plan to catch up on Late Work during your normal class time – any late work must be completed outside of class
- Students with incomplete assignments may be given an alternative individual assignment in lieu of group activities until caught up with course requirements
- Much flexibility will be given to students if they communicate with me and negotiate a plan for success
- Under no circumstances will assignments that are more than 10 days late be accepted during the last week of each quarter
- Schoolwork missed because of excused absences must be made up within two times the number of days absent not to exceed six days per district policy.

Regular attendance will be critical for your success in the Pathway to Engineering program. In case of absence, course participants must contact the instructor at Christine.carlson@k12.sd.us to schedule a time to discuss make-up work. Please do not expect to use class time to discuss or complete missed work.

Note: Participants with unexcused absences may not be given the opportunity to make up group activities and/or group projects.

Classes missed because of attendance at a home school sponsored trip or activity will be an excused absence at the CTE Academy. However, the student will be required to make up work missed.