Newman Smith High School Business & Industry Endorsement

This four year plan can be used as an example to help plan your high school career.

Subject	9th Grade	10th Grade	11th Grade	12th Grade
Language Arts	English	English	English	English
Math	Math	Math	Math	Math
Science	Science	Science	Science	Science
Social Studies	Social Studies	Social Studies	Social Studies	Social Studies
CTE Courses	Principles of Construction (1 Credit)	Electrical Technology I (1 Credit)	Electrical Technology II (2 Credits)	Practicum in Construction Technology OR Career Preparation (2 Credits)
Additional Elective				(2 Gredits)
Additional Elective				
Additional Elective				

Additional Graduation Requirements

- Foreign Language (2 Credits)
- Physical Education (1 Credit)
- Fine Arts (1 Credit)

Possible Industry Based Certifications

- NCCER Electrical, Level 1 & 2
- NCCER Electronic Systems Technician, Level 1 & 2
- Electrical Apprenticeship Certificate, Level 1
- NCCER Commercial Electrician

Occupations	Median Wage	Annual Openings	% Growth
Electrical Lineman	\$54,184	1,314	28%
Electricians	\$44,013	8,460	21%
Electrical and Electronics Installers	\$37,544	245	19%
Security and Fire Alarm Installers	\$43,638	1,112	22%
Telecommunications Line Installers and Repairers	\$49,150	1,228	10%

The Electrical program of study explores the occupations and educational opportunities associated with installing, maintaining, and repairing electrical wiring, equipment, and fixtures. This program of study may also include exploration into installing and repairing telecommunications cable including fiber optics.

Electrical

Newman Smith High School

Recommended Course Sequence

Principles of Construction

This course is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

Electrical Technology I

In this course, students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.

Electrical Technology II

In this course, students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.

Practicum in Construction Technology

In this course students will be challenged with the application of gained knowledge and skills from Construction Technology I and II. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.