

Polaris Career Center Course Syllabus

Construction Trades Tech Prep
Senior

Course Information

Instructor:	Tom Fazio	Phone:	440.891.7677
		Fax:	440.243.3952
		Email:	tfazio@polaris.edu
		Room:	135
		Meeting Time:	Senior 11:20 am - 2:20 pm
		Availability:	Daily-2:20-3:20

Course Description

Construction Trades Tech Prep teaches the fundamentals of residential construction. This includes the study of job and shop safety and how to construct, maintain, repair and remodel buildings and homes in a real-world, practical setting. The program includes the fundamentals of blueprint reading, site preparation, and advanced training in carpentry, plumbing, electricity, roofing, and drywall installation. Construction Trades Tech Prep prepares students for careers as a carpenter, a plumber, an electrician, a roofer, and a drywaller. This is the first year of a two year program. Students will be required to have taken and passed Algebra I.

Major Course Goals

The major goals of the Senior Construction Trades Tech Prep program/course will ask students to:

1. Demonstrate a thorough understanding of residential construction.
2. Demonstrate the ability to act in a professional manner.
3. Demonstrate the ability to work as a part of a team.
4. Demonstrate the ability to work in a safe manner 100% of the time.
5. Participate in a job placement program for qualified seniors.

Instructional Philosophy

The instructional format used in this course will involve a great deal of laboratory and application-based instruction with a minimum of lecture. High quality work is expected and students will be given the opportunity to redo work until it meets standards specified during instruction. Most lab work will consist of working on buildings within the communities served by Polaris Career Center. Students are expected to prepare for each class by completing the reading and written homework assignments. Class participation is an important part of the student's grade. Homework, tests, attendance, and class participation all factor into the student's theory grade. Lab grades are based on the accuracy and completeness of the lab assignments.

Course Units of Study

The major units of study in Construction Trades Tech Prep are:

- Recap of the various trades associated with construction trades
- Recap of Safety and First Aid
- Job Applications and Resume Writing
- Customer Relations
- Job Site Preparation
- Finish Carpentry
- Advanced Roof Framing
- Stair Building
- Advanced Blueprint Reading

Primary Curriculum Materials

Modern Residential Wiring Textbook - ISBN-978-1590708958

Modern Residential Wiring-Workbook - ISBN-978-1590708965

National Electrical Code Handbook - ISBN-978-0071546522

Core Curriculum-Introductory Craft Skills - ISBN-978-0131091870

Plumbing Design and Installation - ISBN-978-0826906311

Plumbing Design and Installation Workbook - ISBN-978-0826906328

Print Reading for Residential Construction - ISBN-978-0826904096

Modern Carpentry Textbook - ISBN-978-1590706480

Business and Industry Credentials, Certifications, and/or Licenses

OHSA Certification

Course Projects and Special Activities

Major projects include working in the field building/repairing homeowner or business owned structures within the communities served by Polaris Career Center. Students will participate in SKILLS USA, a student organization with regional, state, and national competitions.

Course Policies

Code of Conduct:

The published Code of Conduct for Polaris Career Center found in the Student Handbook will be enforced at all times. Students should refer to the Handbook for discussions of due process and safety violations.

Dress and Grooming Guidelines:

The District's dress code is established to teach grooming and hygiene, instill discipline, prevent disruptions, avoid safety hazards, and teach respect and is similar to those enforced in most working environments. Students should refer to the handbook for explicit explanations.

ID:

As stated in the Handbook, students will wear their Polaris IDs and carry a hall pass at all times.

Attendance/Tardiness:

Students should particularly note the attendance/tardiness policy in the Handbook as it will be followed at all times.

Make-up Work:

Students who have been excused absent may make up the work they missed. It is the student's responsibility to check with the teacher the day the student returns from an absence to arrange specific dates for completing the work and for taking tests, if any tests have been missed. Assignments that were due and tests that were scheduled on the day of the absence will be due on the day the student returns. The student will be allowed one day for each day of an excused absence to make up the assigned work.

Computer Usage:

Students must sign the Technology Acceptable Use Policy of Polaris in order to be given use of computers, software, and Internet access. The use of technology is a privilege, not a right. Any student who violates the Policy may lose their access to these items. Polaris Career Center reserves the right to monitor computer and Internet access.

Infinite Campus:

Polaris has implemented a program called Internet Student Information System (ISIS). This program provides students and parents with the ability to check on attendance, grades, test scores, homework assignments, and a host of other information. This information can be reviewed from any internet connection. For additional information, please contact Jean McLaughlin, Education Management Technology Specialist, at 440.891.7713.

Syllabus Changes:

The instructor/Polaris Career Center Administration reserves the right to make changes to this syllabus throughout the year.

Course Assessment Plan

Homework assignments are due on the day after they are assigned. No credit will be given for late homework assignments.

Grades will be determined by a Total Points system based on the grading scale below.

Grades for the course will be based on the following levels of performance:

Grade	Description
A (90-100%)	Work is correct with only minor flaws (not having to do with the main idea of the problem). The concepts presented in class were understood and were appropriately applied to real-world examples. All assignments were completed on-time and were of a work quality.
B (80-89%)	Work was done with a few flaws. The concepts presented in class were applied with help. Almost all tasks and assignments were completed on-time and demonstrated with sufficient skills
C (70-79%)	Some difficulty was had understanding class concepts or applying concepts to real-world situations. Some assignments were late.
D (60-69%)	Only some of the work was completed for class. Work completed was frequently late or was of low quality with errors and omissions.
F (0-59%)	Did not complete a significant amount of work for the class. Work had major errors and did not meet standards.