

Carpentry



at the Frederick County Career & Technology Center

Career Options:

With a 4-year college degree: Construction Project Manager, Estimator, Business Owner, Architect, Construction Executive

With a 2-year college/technical school: Job Superintendent, Job Forman, Building Inspector, Master Carpenter

Direct entry into the workforce: Framing Carpenter, Trim Carpenter, Siding Mechanic, Drywall Mechanic, Roofing Mechanic, Construction Product Sales

Overview: Build a house! The Carpentry program develops student skills through a combination of classroom work and the actual construction of a single family home in the community. Carpentry is a two-year program open to 10th, 11th and 12th grade students on a year long or semester basis. Students who are interested in learning the entry-level skills required in the field of carpentry, including accurate blueprint reading, construction methods, material estimating, work ethics, and safety are encouraged to apply. Extensive instruction is given in the appropriate and safe use of numerous power tools and their application in the industry. Students also explore various career opportunities and specializations within the construction industry, such as construction supervisor, estimator, carpenter, contractor, architect and engineer. Student skill competitions and leadership development are provided through participation in the SkillsUSA student organization.

Value Added:

- ❖ NCCER (National Center for Construction Education and Research) Core certification in safety, math, introduction to hand tools, introduction to power tools, introduction to blueprints, basic rigging
- ❖ NCCER (National Center for Construction Education and Research) Level One Carpentry certification in floor systems, wall and ceiling framing, roof framing, windows and exterior doors, and 665 hours of credit towards journeyman's apprenticeship requirement.
- ❖ Students may earn 6 articulated college credits in FCC's Construction Management Program. Concurrent enrollment in the Introduction to Construction Management class can provide an additional 3 credits at FCC.
- ❖ OSHA Career Safe Certification Certificate (optional)
- ❖ Aerial Work Platform Certification Certificate (optional)

Application Process: Current 9th, 10th or 11th grade students should schedule a shadow visit through their home school counselor. Shadowing allows students to determine if the Carpentry program is appropriate for their career goals and allows the Carpentry instructor to evaluate the student's interest and aptitude. Students should be dressed to participate in an Carpentry lab setting. Students will receive an application to complete, which must also be signed by their guidance counselor and a parent/guardian. In addition to interest and aptitude, applicant's attendance and GPA are considered in the acceptance process.

For additional Information:

Log on to www.careertech.net/carpentry.htm

Contact the instructor at 240-236-8482 or 240-236-8510

Program: **Carpentry**

Post-Secondary Education: 4 year college degree

Careers: Construction Project Manager, Estimator, Business Owner, Architect, Construction Executive

This sample high school schedule prepares students to pursue a four year college degree in the construction industry

Grade 9	Grade 10	Grade 11	Grade 12
English 9 Honors or Merit	English 10 Honors or Merit	English 11 Honors or Merit	AP English or English 12 Merit
Geometry	Algebra 2	Pre Calculus -or- Advanced Algebra w/Trig	AP Calculus I
Intro Chem/Physics Honors –or- Algebra Based Physics	Biology Honors	Physics	AP Physics
Government	Modern World History	American Studies 2	Workstudy or Elective
Physical Education/Health	Fine Art elective	Carpentry I (492050)	Carpentry II (534041)
Technology Education Credit	Elective		
Foreign Language	Foreign Language		
Elective	Elective		

Color Key

	Elective Courses
	Required Courses for Graduation
	CTE Completer Courses



Frederick County
Career & Technology Center

What are You Doing?



Program: **Carpentry**

Post-Secondary Education: 2 year technical school/AA degree, apprenticeship program or military training

Careers: Job Superintendent, Job Forman, Building Inspector, Master Carpenter

This sample high school schedule prepares students to continue their construction training at a community college, technical school, apprenticeship program, or in the military

Grade 9	Grade 10	Grade 11	Grade 12
English 9 Honors or Merit	English 10 Honors or Merit	English 11 Honors or Merit	AP English or English 12 Merit
Algebra I	Geometry	Algebra 2	Math Elective
Intro Chem/Physics Honors or Merit	Biology Honors or Merit	Physics elective	Work study or Elective
Government	Modern World History	American Studies 2	Work study or Elective
Physical Education/Health	Fine Art elective	Carpentry I (492050)	Carpentry II (534041)
Technology Education Credit	Elective		
Foreign Language	Foreign Language		
Elective	Elective		

Color Key

	Elective Courses
	Required Courses for Graduation
	CTE Completer Courses



Frederick County
Career & Technology Center

What are You Doing?



Program: **Carpentry**

Careers: Framing Carpenter, Trim Carpenter, Siding Mechanic, Drywall Mechanic, Roofing Mechanic, Construction Product Sales

Post-Secondary Education: none required

This sample high school schedule prepares students to enter directly into the workforce in the construction industry

Grade 9	Grade 10	Grade 11	Grade 12
English 9 Honors or Merit	English 10 Honors or Merit	English 11 Honors or Merit	AP English or English 12 Merit
Algebra IA	Geometry	Applied Algebra/Geometry	Contemporary Math
Intro Chem/Physics	Biology	Environmental Science	Work study or Elective
Government	Modern World History	American Studies 2	Work study or Elective
Physical Education/Health	Fine Art elective	Carpentry I (492050)	Carpentry II (534041)
Algebra IB	Technology Education Credit		
Elective	Elective		
Elective	Elective		

Color Key

	Elective Courses
	Required Courses for Graduation
	CTE Completer Courses



Frederick County
Career & Technology Center

What are You Doing?

