



Introductory Carpentry Part 1

Welcome to JC011: Introductory Carpentry Part 1!

Please read the information in this syllabus before proceeding to the course materials.

Credits 1 credit hour

Prerequisites None

INSTRUCTIONAL TEAM

Our Academic Advisors are also available to help you when you need it. They are trained to provide answers to your questions about the course or program.

Phone: 1-800-224-7234

Hours: 8:30AM – 8:30PM (Eastern Standard Time), Monday-Friday

MAIL

James Madison High School
6625 The Corners Parkway, Suite 500
Norcross, GA 30092

TEXTBOOK

Wagner, W, Smith, H and Huth, M (2016) *Modern Carpentry* (12th ed.). Tineley Park, IL: The Goodheart-Willcox Company, Inc.

COURSE DESCRIPTION

The Carpentry program provides students with a basic understanding of the materials, tools and processes used by construction professionals to complete residential and light-commercial building projects. Students learn safe-work practices, hand and power tool identification and operation, basic print reading and building code applications. The program provides detailed coverage of framing techniques, interior and exterior finishing practices as well as some specialty construction elements.

LEARNING OBJECTIVES

After completing the Carpentry program, students will be able to

- Describe the career opportunities available in the carpentry profession and identify the key work characteristics of carpentry technicians.
- Identify the basic materials and tools used for standard residential construction projects and describe how they are applied as part of the construction process.
- Understand the basic concepts and rules of construction safety and list the types of personal protective equipment used by construction technicians to stay safe on the job site.
- Identify and describe the essential steps in the framing process used for residential construction projects.
- Describe the steps in the process for transmitting building requirements and specifications from construction documents to actual building layout.
- List the materials and procedures used to install exterior building protection systems and interior building finish systems.



LESSONS	TOPICS
Lesson 1: Introduction to Construction Technology	An overview of potential career paths and professional development available for students who formally develop skills and knowledge related to building construction. This lesson includes a summary of math and science concepts important to building professionals as well as applications of modern technologies to the construction workplace. The lesson concludes with an overview of general workplace safety practices and applications of personal protection equipment.
Lesson 2: The Carpentry Profession	Students will learn about standard career paths available to carpenters and the training process required for those career options. The learner is also introduced to standard safety practices. In addition, the lesson also reviews the work-qualities valued by potential employers.
Lesson 3: Wood and Building Materials	This lesson covers the common building materials that will be encountered on the job site for standard residential construction. Coverage focuses on wood and engineered wood products, concrete, fasteners and adhesives.
Lesson 4: Blueprints and Building Codes	A summary of the parts of a standard set of building plans and the knowledge required to interpret plans accurately. Lesson material also describes standard building codes and their common applications as well as the contents and application process for building permits.
Lesson 5: Hand Tools	An introduction to the standard collection of hand tools used most commonly by professional builders. Instruction covers identification, applications and safe work practices.
Lesson 6: Power Tools	Continued coverage of tools students will be required to operate on the job site with a focus on portable power tools like circular saws and drills, as well as some standard stationary equipment like table saws. Instruction covers identification, applications and safe work practices.

GRADING

The following point totals correspond to the following grades:

POINTS	GRADE
100-90	A
89-80	B
79-70	C
65-69	D
Below 65	F

James Madison High School allows 2 attempts on exams. If a student is not satisfied with his/her score on the 1st attempt, an exam may be resubmitted. The 2nd attempt is not required as long as



the final course average is above 65%. The higher of the 2 attempts will be the score that counts towards the final average.

Exams are timed and once you begin an exam, the timer runs continuously, even if you leave the course. Refer to the exam instructions for the time limit (in most cases 3 hours), but the time limit cannot be spread over multiple days.

GRADE WEIGHT

TOPIC	ACTIVITY	PERCENTAGE
Lesson 1: Introduction to Construction Technology	MC Quiz	16.66%
Lesson 2: The Carpentry Profession	MC Quiz	16.67%
Lesson 3: Wood and Building Materials	MC Quiz	16.67%
Lesson 4: Blueprints and Building Codes	MC Quiz	16.67%
Lesson 5: Hand Tools	MC Quiz	16.67%
Lesson 6: Power Tools	MC Quiz	16.66%

ACADEMIC AND COURSE POLICIES

Please see the Academic Policies section in the James Madison High School Catalog for information on Course policies, including the Exam/Assignment Retake Policy, Grading Policy, Academic Honesty Policy, and Student Conduct Policy.