



**GRAYS HARBOR
COLLEGE**

CARPENTRY AS A CAREER

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<http://www.ghc.edu/voc/carpentry.pdf>

CARPENTRY AS A CAREER

Grays Harbor College has worked with the industry to develop these leading-edge programs to reflect current state requirements in the carpentry/woodworking field. These programs provide the knowledge and understanding of the field in areas such as:

- Finish Carpentry
- Laminating
- Material estimating
- Tool usage and safety
- Scaffold erection
- Building codes
- Blueprint reading
- Building layout
- Basic surveying
- Concrete formwork
- Framing
- Roofing techniques
- Exterior wall siding
- Sheetrock
- Construction of decks, porches, and stairs

Work Experience

Students have a unique opportunity to complete the degree program on an actual job site. The class will participate in the construction of an accepted residential home project from the ground to the finish.

Employment Opportunities

Some of the typical employment opportunities for graduates of this program include:

- Union carpenter apprentice
- Carpenter's helper
- General carpenter
- Form carpenter
- Framing carpenter
- Siding installer
- Finish carpenter
- Independent contractor
- Construction laborer

Salary Expectations

For job opportunities and salary expectations, please see: <http://www.workforceexplorer.com/>

Funding Opportunity

Students who are interested in completing the Carpentry program may qualify for an additional funding option. Please see: <http://ghc.edu/Opportunity> for details.

When Can I Enroll?

Students may enter the Carpentry programs in any quarter, including: Fall, Winter or Spring.

What Do I Need To Do First?

- **Apply for Admission** (<https://admissions.ctc.edu/applicant/welcome.cfm>)
- **Request Official Transcripts** from high school, previous colleges or GED certificate. Have them sent directly to GHC.
- **Take the College Placement Test (CPT).** Make an appointment at GHC Counseling Center (360-538-4099 or toll-free 1-800-562-4830). The CPT is not required if 100 level English and math were completed at another college.
- **Meet with an entry advisor.**



CARPENTRY TECHNOLOGY

Associate in Technology Degree

Prerequisite Requirements

Placement in ENGL 060, MATH 060, READ 080 and instructor permission.

Core Courses (96 credits)

		<u>Credits</u>
CARP 121	Residential/Commercial Carpentry I	16
CARP 122	Residential/Commercial Carpentry II	16
CARP 123	Residential/Commercial Carpentry III	16
CARP 221	Residential/Commercial Carpentry IV	16
CARP 222	Residential/Commercial Carpentry V	16
CARP 223	Residential/Commercial Carpentry VI	16

Support Courses (6 credits)

WELD 101	Related Welding I (or higher)	6
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General Education Courses (13-15 credits)

ENGL& 101	English Composition I	5 <u>or</u>
ENGL 150	Vocational/Technical/Business Writing	5
MATH 100	Vocational/Technical Math (or higher)	5
PSYC& 100	General Psychology	5 <u>or</u>
PSYCH 106	Applied Psychology	3 <u>or</u>
SOC& 101	Introduction to Sociology	5

Minimum Credits Required

115+
3 PE credits



NOTE: When students return to the carpentry degree program after a break in enrollment, they may be required to retake previously completed courses. The faculty will make this determination and will take the length of absence and related work experience into consideration when making this decision.

Grays Harbor College complies with all Federal and State rules and regulations and does not discriminate on the basis of race, color, creed, religion, national origin, sex, sexual orientation, age, marital status, disability, or status as a disabled or Vietnam era veteran.



CARPENTRY TECHNOLOGY Certificate of Completion

Prerequisite Requirements

Placement in ENGL 060, MATH 060, READ 080 and instructor permission.

Core Courses (48 credits)

		<u>Credits</u>
CARP 121	Residential/Commercial Carpentry I	16
CARP 122	Residential/Commercial Carpentry II	16
CARP 123	Residential/Commercial Carpentry III	16

General Education Courses (13-15 credits)

ENGL& 101	English Composition I	5 <u>or</u>
ENGL 150	Vocational/Technical/Business Writing	5
MATH 100	Vocational/Technical Math (or higher)	5
PSYC& 100	General Psychology	5 <u>or</u>
PSYCH 106	Applied Psychology	3 <u>or</u>
SOC& 101	Introduction to Sociology	5

Minimum Credits Required

61

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BEGINNING CARPENTRY

Certificate of Achievement

Prerequisite Requirements

Placement in ENGL 060, MATH 060, READ 080 and instructor permission.

Core Courses (48 credits)

		<u>Credits</u>
CARP 121	Residential/Commercial Carpentry I	16
CARP 122	Residential/Commercial Carpentry II	16
CARP 123	Residential/Commercial Carpentry III	16

ADVANCED CARPENTRY

Certificate of Achievement

Prerequisite Requirements

Placement in ENGL 060, MATH 060, READ 080 and instructor permission.

Core Courses (48 credits)

		<u>Credits</u>
CARP 221	Residential/Commercial Carpentry IV	16
CARP 222	Residential/Commercial Carpentry V	16
CARP 223	Residential/Commercial Carpentry VI	16



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CARPENTRY TECHNOLOGY PROGRAM COURSE DESCRIPTIONS

BUS& 101 (formerly BA 101) 5 Credits **Introduction to Business**

Prerequisites: Math 060 and READ 080 or instructor permission.

Introduction to Business is a general course designed to provide an understanding of how the American business system operates and its place in the economy. The course provides background for more effective and better use of business services in personal affairs as well as foundation for future courses in various business programs. 5 lecture hours. Satisfies specified elective requirement for the AA degree.

CARP 121 16 Credits **Residential and Commercial Carpentry I**

Prerequisites: Placement in MATH 060 and ENGL 060; and instructor permission.

A lecture-lab course to provide an introduction to safe work practices, work ethics, basic tool use, and carpentry concepts. Students may participate in the construction of a home on a working jobsite. 8 lecture hours; 16 lab hours. Vocational program course. May be used as a general elective in the AA degree.

CARP 122 16 Credits **Residential and Commercial Carpentry II**

Prerequisite: Completion of CARP121 with a passing grade and instructor permission.

A lecture-lab course to build upon the skills learned in CARP 121. Training increases skills and expands tasks learned in CARP 121. Students may participate in the construction of a home on a working jobsite. 8 lecture hours; 16 lab hours. Vocational program course. May be used as a general elective in the AA degree.

CARP 123 16 Credits **Residential and Commercial Carpentry III**

Prerequisite: Completion of CARP 122 with a passing grade and instructor permission.

A lecture-lab course to build upon the skills learned in CARP 122. Training increases skills and expands tasks learned in CARP 122. Students may participate in the construction of a home on a working jobsite. Tasks are completed to industry standards. 8 lecture hours; 16 lab hours. Vocational program course. May be used as a general elective in the AA degree.

CARP 221 16 Credits **Residential and Commercial Carpentry IV**

Prerequisite: Completion of CARP 123 with a passing grade and instructor permission.

A lecture-lab course to build upon the skills learned in CARP 121-123. Training increases skills and expands tasks learned in CARP 121-123. Students may participate in the construction of a home on a working jobsite. Tasks are completed to industry standards and increase in complexity. 8 lecture hours; 16 lab hours. Vocational program course. May be used as a general elective in the AA degree.

CARP 222 16 Credits **Residential and Commercial Carpentry IV**

Prerequisite: Completion of CARP 221 with a passing grade and instructor permission.

A lecture-lab course to build upon the skills learned in CARP 121-221. Training increases skills and expands tasks learned in CARP 121-221. Students may participate in the construction of a home on a working jobsite. Tasks are completed to industry standards and increase in complexity. Problem solving is emphasized. Leadership opportunities are presented. 8 lecture hours; 16 lab hours. Vocational program course. May be used as a general elective in the AA degree.

CARP 223 16 Credits **Residential and Commercial Carpentry VI**

Prerequisite: Completion of CARP 222 with a passing grade and instructor permission.

A lecture-lab course to build upon the carpentry skills learned in CARP 121-222. Training increases skills and expands tasks learned in CARP 121-222. Students may participate in the construction of a home on a working jobsite. Tasks are completed to industry standards and increase in complexity. Problem solving is emphasized. Leadership opportunities are presented. Course includes a capstone exam to ensure retention of competency in previous Carpentry Technology program topics. 8 lecture hours; 16 lab hours. Vocational program course. May be used as a general elective in the AA degree.

ENGL& 101 5 Credits **English Composition I**

Prerequisite: Appropriate English placement test score or a grade of "C-" or better in ENGL 095.

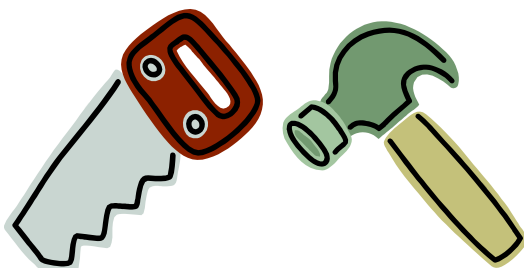
ENGL& 101 emphasizes the basic rhetorical principles and development of expository and argumentative prose. Included is an introduction to the research methods necessary for evidence-backed writing. Skills gained in this course should help students improve their performance of such tasks as writing for a variety of purposes and audiences, as well as writing informative and persuasive essays and research-backed reports, projects and papers. 5 lecture hours. Satisfies writing skills requirement for the AA degree.

ENGL 150 5 Credits **Vocational/Technical and Business Writing**

Recommended Preparation: Competence in basic computer operation or concurrent enrollment in CIS 100.

Prerequisite: Appropriate English placement score or a grade of "C-" or better in ENGL 095.

This course is designed for both vocational/technical and business students. It emphasizes written and oral communication required in the world of work. Major topics include business letters and memorandums, formal and informal reports, computer graphics, basic principles of technical writing, and oral presentations. 5 lecture hours. Vocational program course. May be used as a general elective in the AA degree.



CARPENTRY TECHNOLOGY PROGRAM COURSE DESCRIPTIONS

MATH 100

5 Credits

Vocational Technical Mathematics

Prerequisites: A grade of "C-" or better in MATH 059 or MATH 060 or appropriate placement score.

This course is designed to meet the needs of the vocational-technical student. Topics will include powers and roots, signed numbers, formulae manipulation, plane and solid geometry, trigonometry and specialized formulae. 5 lecture hours.

Vocational program course. May be used as a general elective in the AA degree.

PSYC& 100

5 Credits

General Psychology

Recommended Preparation: Placement in ENGL& 101.

An introduction to psychology utilizing lectures and group exercises. Deals with the psychology of behavior, development, learning, cognition, motivation and emotion, perception, memory, and both normal and abnormal personalities. Provides an overview of modern psychology in terms of biological, social and intrapsychic factors. 5 lecture hours. Satisfies social science distribution area D requirement or specified elective for the AA degree.

PSYCH 106

3 Credits

Applied Psychology

Applications of theory and current research in psychology with major topics of personality, decision making, communications, motivation, learning and the workplace. Focuses on individual and group thought and behavior in the world of work. Emphasis is placed on change, personal and professional growth. 3 lecture hours. May be used as a general elective in the AA degree.

SOC& 101 (formerly SOC 110)

5 Credits

Introduction to Sociology

Recommended Preparation: ENGL 095 or placement in ENGL& 101.

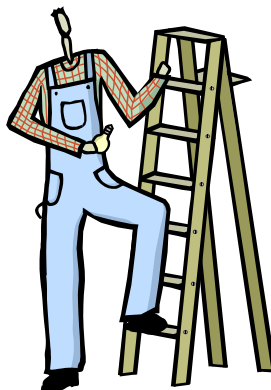
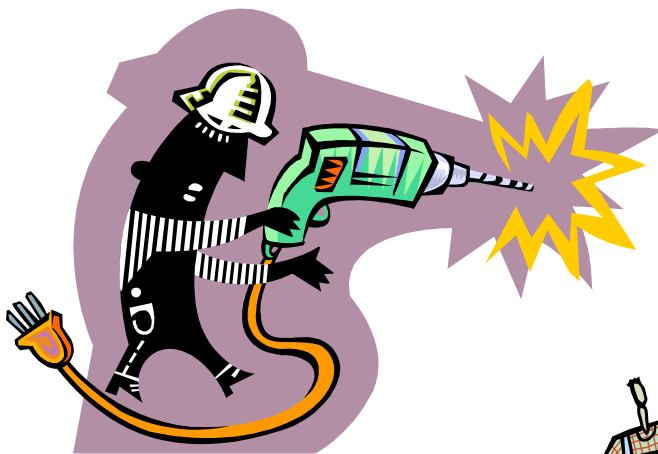
An introduction to the principles, concepts, theories and methods of the sociological perspective. Emphasis is placed upon relating sociological ideas to national, community, and individual levels. 5 lecture hours. Satisfies social science distribution area C requirement or specified elective for the AA degree.

WELD 101

6 Credits

Related Welding I

Students are given an overview of welding employment opportunities, the most common welding processes (SMAW, GMAW, FCAW and GTAW), and oxyacetylene cutting and heating. 3 lecture hours; 6 lab hours. Vocational program course. May be used as a general elective in the AA degree.



GRAYS HARBOR COLLEGE - Typical Student Schedule
CARPENTRY TECHNOLOGY - ASSOCIATE IN TECHNOLOGY DEGREE

1st Quarter

Course #	Course Title	Credits
CARP 121	Residential/Commercial Carpentry I	16
TOTAL QUARTER CREDITS		16

2nd Quarter

Course #	Course Title	Credits
CARP 122	Residential/Commercial Carpentry II	16
TOTAL QUARTER CREDITS		16

3rd Quarter

Course #	Course Title	Credits
MATH 100	Vocational/Technical Math (or higher)	5
CARP 123	Residential/Commercial Carpentry III	16
TOTAL QUARTER CREDITS		21

4th Quarter

Course #	Course Title	Credits
CARP 221	Residential/Commercial Carpentry IV	16
PSYCH 106	Applied Psychology	3
TOTAL QUARTER CREDITS		19

5th Quarter

Course #	Course Title	Credits
CARP 222	Residential/Commercial Carpentry V	16
WELD 101	Related Welding I	6
TOTAL QUARTER CREDITS		22

6th Quarter

Course #	Course Title	Credits
CARP 223	Residential/Commercial Carpentry V	16
ENGL 150	Vocational/Technical/Business Writing	5
TOTAL QUARTER CREDITS		21

PLEASE NOTE: Students may substitute ENGL& 101 for ENGL 150; PSYC& 100 or SOC& 101 for PSYCH 106.



GRAYS HARBOR COLLEGE - Typical Student Schedule
CARPENTRY TECHNOLOGY - CERTIFICATE OF COMPLETION

1st Quarter

Course #	Course Title	Credits
CARP 121	Residential/Commercial Carpentry I	16
ENGL 150	Vocational/Technical/Business Writing	5
PSYCH 106	Applied Psychology	3
TOTAL QUARTER CREDITS		24

2nd Quarter

Course #	Course Title	Credits
CARP 122	Residential/Commercial Carpentry II	16
TOTAL QUARTER CREDITS		16

3rd Quarter

Course #	Course Title	Credits
CARP 123	Residential/Commercial Carpentry III	16
MATH 100	Vocational/Technical Math (or higher)	5
TOTAL QUARTER CREDITS		21

PLEASE NOTE: Students may substitute ENGL& 101 for ENGL 150; PSYC& 100 or SOC& 101 for PSYCH 106.

GRAYS HARBOR COLLEGE - Typical Student Schedule
BEGINNING CARPENTRY - CERTIFICATE OF ACHIEVEMENT

1st Quarter

Course #	Course Title	Credits
CARP 121	Residential/Commercial Carpentry I	16

2nd Quarter

Course #	Course Title	Credits
CARP 122	Residential/Commercial Carpentry II	16

3rd Quarter

Course #	Course Title	Credits
CARP 123	Residential/Commercial Carpentry III	16

GRAYS HARBOR COLLEGE - Typical Student Schedule
ADVANCED CARPENTRY - CERTIFICATE OF ACHIEVEMENT

1st Quarter

Course #	Course Title	Credits
CARP 221	Residential/Commercial Carpentry IV	16

2nd Quarter

Course #	Course Title	Credits
CARP 222	Residential/Commercial Carpentry V	16

3rd Quarter

Course #	Course Title	Credits
CARP 223	Residential/Commercial Carpentry VI	16

GRAYS HARBOR COLLEGE

RESIDENTIAL CARPENTRY TOOL LIST

Note that the total cost of textbooks for all GHC carpentry courses is about \$150. It is expected that the money saved on books be invested in professional tools. Please remember - *the quality of your tools often forms part of your first impression and reflects to everyone the seriousness with which you take your trade.*

Students must have personal protective equipment to participate in training.

Personal Protective Equipment

Safety glasses
Work boots- see syllabus
Hard hat
Work gloves
Dust filter mask
Hearing protection
Rain suit
High Visibility Vest or out layer

Tools Required for Training - 100 level students

Tool Box or Bucket with liner
Framing hammer 20 oz. + or -
25 or 30 foot tape measure - Without printed fractions!
Nail/tool pouch system
Nail extractor (shark tooth style)
Carpenter pencils
Speed square
Chalk box
Utility knife
Side cutting pliers
Architects rule
Calculator (w/ rise, run, diag)
Small (3 x 5) notebook
Graph paper (40 sheets)
Clear 30/60/90 triangle
Mechanical pencil
Multi-bit screwdriver
Phillips & square drive bits (6 ea)
Drive bit holder
Nail sets

CARPENTRY TOOL LIST (continued)

Tools Required for Training - 200 level students

Plumb bob
Dry line
16 x 24 framing square w/ tables
Rafter/stair gauges (2)
2 / 4 / 6 foot level(s)
100' metal tape
Set of wood chisels
Hand saw
Set of twist drill bits
Set of spade bits
Cordless drill
Block plane
Surform plane
12 inch combination square
10 inch + crescent wrench
Wonder bar (flat bar)
Compass scribe

Additional Tools

These tools are recommended but not required. Your specific needs should be considered when acquiring these tools for workforce readiness/self-employment.

Wrecking bar
4' T-square
Tin/metal snips
Sliding t-bevel
End nipper pliers (farrier style)
Vice grip pliers
Four in one rasp/file
2 @ 12 inch quick grip clamps
7 ¼ inch circular saw (skill saw)
Sawzall
Jigsaw
Sliding compound miter saw
Extension cords (10 gauge)
Compressor & air hose
Framing and Finish nailers

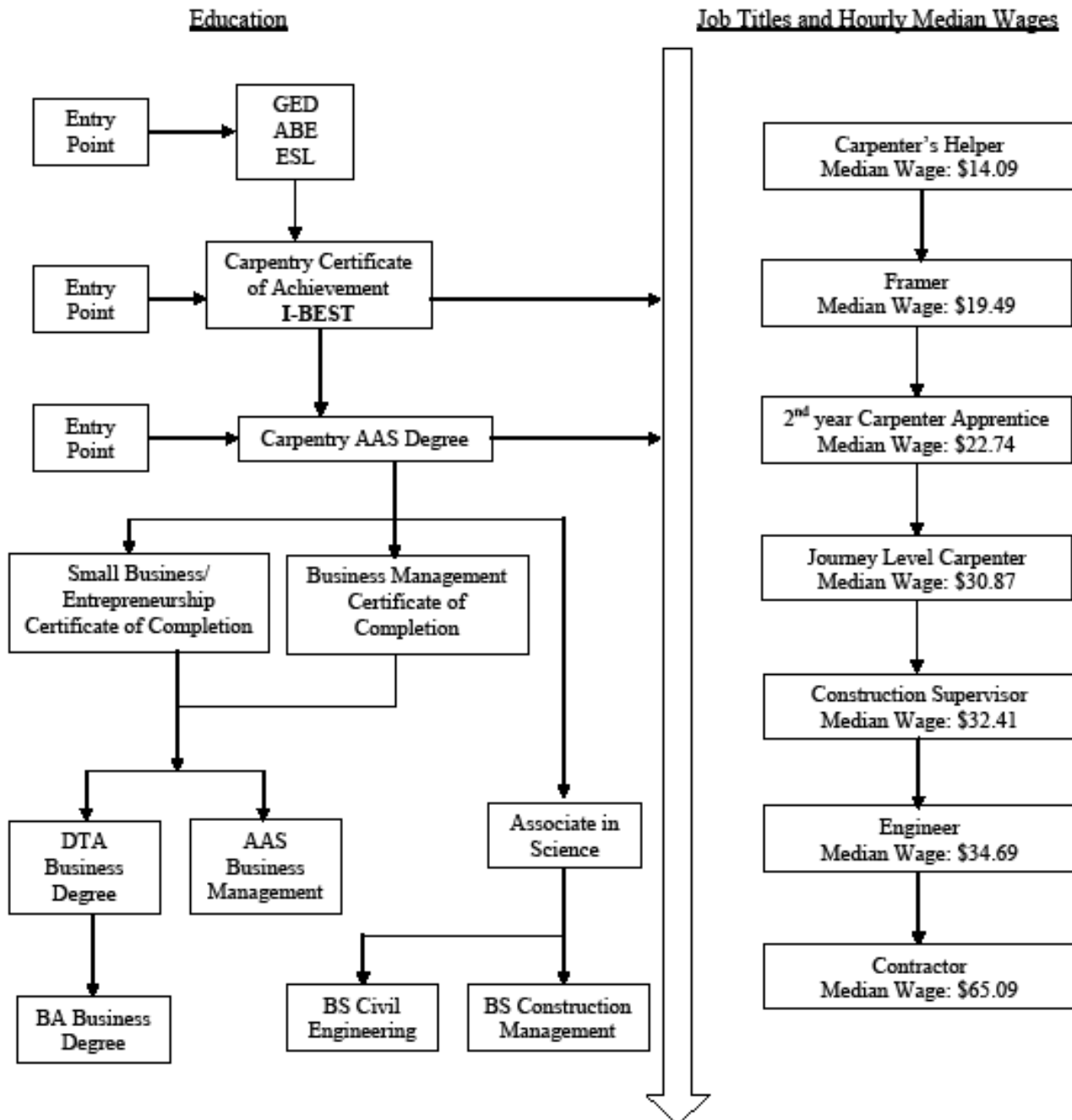
Ladder (s)
Sanders (RO and Belt)
½" electric hammer drill
Portable table saw
Miter saw stand
Router
Individual fall arrest system
Locking tool box (truck)
Laser level/builder's level
Portable Jointer – self employment
Portable surface planer - self employment
Generator - self employment

**All tool purchases utilizing awarded funds
must have price quotes pre-approved &
signed by the Carpentry Instructor!**



GRAYS HARBOR COLLEGE

CARPENTRY CAREER PATHWAY



Median Wage Source: Workforce Explorer and Aberdeen Carpenters & Pile Drivers Local 317