

CARPENTRY/BUILDING AND CONSTRUCTION TECHNOLOGIES



Pathway: Construction, Maintenance & Utilities
Chair: William (Bill) Elarton, Room SQ/B-122
(213) 763-3700, cdm@lattc.edu

Award Title	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Carpentry * —(day only)	A.S.	21*	45	3	48
Carpentry —(day only)	C		45	3	48
Carpentry Construction Technologies* —(evening only)	A.A.	21*	39	9	48
Carpentry Construction Technologies —(evening only)	C		39	9	48

At least 60 degree applicable units are required to earn an Associate degree.

*These Associate Degrees are eligible for a reduction of General Education requirements from 21 to 18 units; please consult with a counselor for more details.

PROGRAM OVERVIEW

To meet the training needs of persons interested in becoming a Carpenter, LATTC offers a Carpentry Associate in Science degree and a Carpentry Construction Technologies Associates in Arts degree as well as Certificates of Achievement.

The Associate in Science degree is designed for individuals seeking entry level positions in the field. Students enrolling in this program should be able to commit to full-time student status, which is approximately 24 hours per week. This time commitment is necessary to allow for hands-on training with the laboratory applications used during the course of instruction.

The Associate in Arts degree is an evening-only course of study designed for individuals currently in the field who want to improve their skills or learn new ones. Due to limitations on available evening hours, the utilization of hands-on laboratory application is assumed to be provided at the students' place of employment.

By fulfilling the program requirements, students will have the necessary knowledge and skills for a career as a Carpenter in the Construction or Maintenance arena. The construction, installation, and repair of structures and fixtures made from wood and other materials, working from blueprints, layout, measuring, marking, and arranging materials in accordance with local building codes, cutting and shaping wood, plastic, fiberglass, or drywall using hand and power tools, joining materials with nails, screws, staples, or adhesives are just some of the skills that will be mastered during this program.

CARPENTRY

Associate in Science Degree
Major Units: 48

Requirements for the Associate in Science degree in Carpentry may be met by completing 45 units of Required Courses and 3 units of Major Electives with a "C" or better along with General Education units. Information on the General Education unit requirements may be found in the catalog under Graduation/Transfer Requirements.

† Course currently unavailable

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the Degree/Certificate program, students are able to:

1. Use hand and power tools, testing equipment, and P.P.E required for performing work in the building construction industry in accordance with industry standards.
2. Perform calculations and measurements required for work in the building construction industry.
3. Construct and install interior/exterior walls, stairs, doors, windows, roof components, flooring, and exterior finish for various residential and commercial constructions that meet customer specifications and industry standards.

REQUIRED COURSES

SEMESTER I		UNITS
CRPNTRY 105	Calculations and Measurement for Woodworking Students I	3
CRPNTRY 114	Hand and Power Tools Application	4
CRPNTRY 115	Basic Blueprint Reading and Core Construction Skills	3
CRPNTRY 117	Construction Materials	2

SEMESTER II		UNITS
CRPNTRY 123	Basic House Construction	6
CRPNTRY 124	Blueprint Reading and Estimating I	3
CRPNTRY 129 †	Basic Residential Estimating	2
CRPNTRY 130	Calculations and Measurement for Woodworking Students II	3

SEMESTER III		UNITS
CRPNTRY 132	Applied Blueprint Reading	3
CRPNTRY 133	Advanced Residential Estimating	3
CRPNTRY 134	Advanced Residential Construction	4
CRPNTRY 135	Concrete Construction	2

SEMESTER IV		UNITS
CRPNTRY 144	Residential Exterior Finish	4
CRPNTRY 145	Residential Interior Finish	5

MAJOR ELECTIVES

Select at least 3 units from the courses below		UNITS
BLDGCTQ 007	Weatherization - Practical Energy Efficiency Techniques	3
BLDGCTQ 008	Weatherization - Energy Efficiency Practices	1
BLDGCTQ 009	Energy Auditor – Residential	3
BLDGCTQ 012	Energy Auditor – Residential Practices	1
BLDGCTQ 102	O.S.H.A. Based Safety Standards: Construction & Industry	2
BLDGCTQ 921	Cooperative Education-Building Construction Techniques	2
CBNTMKG 170 †	Introduction to CNC Woodworking Machining Center	3
CRPNTRY 111	Construction I	3
CRPNTRY 126	Construction II	6
CRPNTRY 148	Computer Assisted Estimating I	3
CRPNTRY 149	Computer Assisted Estimating II	3
CRPNTRY 170	Introduction to CNC Woodworking Machining Center and Programming	3
CRPNTRY 243	Building Estimating I	3
CRPNTRY 247	Building Estimating II	3
CRPNTRY 941	Cooperative Education-Carpentry	4
ECONMT 100	(O.S.H.A.) Safety Standards: Construction and Industry	2

CARPENTRY

Certificate of Achievement Major Units: 48

A Certificate of Achievement in Carpentry may be earned by completing 45 units of Required Courses and 3 units of Major Electives listed for the Associates degree in Carpentry with a "C" or better in each course.

CARPENTRY - CONSTRUCTION TECHNOLOGIES

Associate in Arts Degree Major Units: 48

Requirements for the Associate in Arts degree in Carpentry - Construction Technologies may be met by completing 39 units of Required Courses and 9 units of Major Electives with a "C" or better along with General Education units. Information on the General Education unit requirements may be found in the catalog under Graduation Requirements.

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the Degree/Certificate program, students are able to:

1. Use drawings and other related documents and graphics to communicate information effectively.
2. Use hand and power tools, testing equipment, and P.P.E required for performing work in the building construction industry in accordance with industry standards.

REQUIRED COURSES

LEVEL I		UNITS
CRPNTRY 105	Calculations and Measurements for Woodworking Students I	3
CRPNTRY 111A	Construction IA	3
CRPNTRY 126A †	Construction II	3
LEVEL II		UNITS
CRPNTRY 130	Calculations and Measurements for Woodworking Students II	3
CRPNTRY 148	Computer Assisted Estimating I	3
CRPNTRY 241	Blueprint Reading and Estimating	3
CRPNTRY 243	Building Estimating I	3
LEVEL III		UNITS
ECONMT 100	(O.S.H.A.) Safety Standards: Construction & Industry	2
CRPNTRY 149	Computer Assisted Estimating II	3
CRPNTRY 240	Building Construction Specialties	4
CRPNTRY 251	Building Codes I: International Residential Code (IRC)	3
LEVEL IV		UNITS
CRPNTRY 247	Building Estimating II	3
CRPNTRY 252	IVC Building Code II	3

MAJOR ELECTIVES

Select at least 9 units from the courses below		UNITS
BLDGCTQ 007	Weatherization - Practical Energy Efficiency Techniques	3
BLDGCTQ 008	Weatherization - Energy Efficiency Practices	1
BLDGCTQ 009	Energy Auditor – Residential	3
BLDGCTQ 012	Energy Auditor – Residential Practices	1
BLDGCTQ 101	Contract's License Law	3
BLDGCTQ 102	O.S.H.A. Based Safety Standards:Construction & Industry	2
BLDGCTQ 921	Cooperative Education-Building Construction Techniques	2
CRPNTRY 114	Hand and Power Tool Application	4
CRPNTRY 115	Basic Blueprint Reading and Core Construction Skills	3
CRPNTRY 117	Construction Materials	2

CARPENTRY - CONSTRUCTION TECHNOLOGIES

Certificate of Achievement Major Units: 48

A Certificate of Achievement in Carpentry - Construction Technologies may be earned by completing 39 units of Required Courses and 9 units of Major Electives listed under the Associates degree in Carpentry Construction Technologies with a "C" or better in each course.

USEFUL LATTC LINKS:

College Catalog: <http://college.lattc.edu/catalog/>
Financial Aid Office: <http://college.lattc.edu/financialaid/>
Counseling Department: <http://college.lattc.edu/counseling/>
General Education Information: <http://college.lattc.edu/catalog>
Construction, Design, and Manufacturing Pathway: <http://college.lattc.edu/cdm>

You can register in these classes by logging on to the Student Information System at <http://college.lattc.edu/student/new-students/register-now/>

For additional information consult a LATTC college counselor.

† Course currently unavailable