

Be Something...

Construction

What preparation will this program give me?

The Carpentry program is designed to instruct students in the principles of carpentry and provide participation in all phases of the building process. Carpentry students build a new house and/or remodel existing structures in partnership with the City of Oakland.

Construction Management provides students, who work in or plan to enter management of residential projects and commercial projects, with the knowledge and skills necessary for employment. Emphasis is placed on inspection, estimating, scheduling, legal, and business aspects of construction.

The Welding Technology program offers an opportunity to learn cognitive and manipulative welding skills which prepare the student for employment in occupations that use welding applications.

The Wood Technology curriculum offers instruction in woodworking for both career and avocational students. Classes are also offered for students needing vocational language and math skills as well as technical education. Classes emphasize safe and efficient use of machine tools and the skills required for a wide range of woodworking. The program prepares students for employment as cabinet and furniture-makers, finish carpenters, CAD/CAM technicians, and project managers.



What kind of job will I be qualified for when I finish?

Carpenters are involved in many different kinds of construction including rough carpentry, finish carpentry, remodeling homes, or building concrete forms for tunnel, bridge or sewer construction projects. They construct, erect, install and repair structures made from wood and other materials. In 2006, median hourly earnings for carpenters were \$17.57.

Construction Managers plan, direct, and coordinate construction projects. They schedule and coordinate the design and construction processes. They determine the plan and schedule for completing the project, oversee selection of general and trade contractors and direct and manage the progression of construction activities. Faster than average employment growth in this field is expected and the number of job openings is expected to exceed the number of qualified individuals seeking the jobs. Median salaries in 2006 were \$73,700.

Welding is used in shipbuilding, automobile manufacturing and repair, aerospace applications and thousands of other manufacturing activities. Skilled welders generally work from drawings or specifications and use their knowledge of welding processes to determine how to join the parts. They then select and set up the welding equipment and execute and examine the welds. New or less experienced welders perform routine jobs that have been planned for them. With increased experience and skills, welders can become welding technicians, supervisors, inspectors or instructors. They may open repair shops or become welding engineers. Median earnings of welders, cutters, solderers, and brazers were \$15.10 an hour in 2006.

Woodworkers create finished products from lumber. Jobs range from sawing machine operators, who operate wood-sawing machines, to cabinet makers who often make one-of-a-kind items. Experienced woodworkers can become inspectors or supervisors responsible for the work of a group of woodworkers. Journeyman carpenters currently earn between \$20 and \$25 per hour.

“Mr. Gilmore [the Department Chair of Construction Management] has been so instrumental in my success at my job; every class that I took from him has benefited me. He’s made such an impression in my life. The way he teaches the lessons are real world experiences - he teaches what is going to be expected in the real world. I already had my light on when I came to this job because he already turned it on. There’s not a day that goes by that I’m not doing things he told us we’d do.”

— Margena Wade, Construction Management Program Graduate, Public Information Officer, San Francisco Bay Bridge

(see next page)



What classes will I take?

Required Courses:

Carpentry

	Units	
CARP 210	Foundations and Forms Construction	3.5
CARP 211	Elements of Construction	3.5
CARP 220	Rough Framing	3
CARP 221	Advanced Elements of Construction	3.5
CARP 230	Stair Building and Framing	2
CARP 231	Roof Framing	3
CARP 232	Residential Plumbing for Carpenters	1.5
CARP 233	Residential Electrical for Carpenters	1.5
CARP 240A	Construction Rehabilitation	2
CARP 240B	Construction Rehabilitation	2
CONMT 11	Construction Estimating I/ Residential	3
CONMT 210	Residential Building Codes for Carpenters	3
MATH 220A	Technical Mathematics with Algebra Part 1	0.5
MATH 220B	Technical Mathematics with Algebra Part 2	0.5
MATH 220C	Technical Mathematics with Algebra Part 3	0.5
MATH 220D	Technical Mathematics with Algebra Part 4	0.5
MATH 220E	Technical Mathematics with Geometry Part 1	0.5

MATH 220F	Technical Mathematics with Geometry Part 2	0.5
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Total Required Units 34.5

Construction Management

	Units	
CONMT 10	Introduction to Construction Practices	3
CONMT 11	Construction Estimating I/ Residential	3
CONMT 12	Uniform Building Codes I	3
CONMT 20	Blueprint Reading and Interpretation	3
CONMT 18	Construction Project Management I	3
CONMT 21	Construction Estimating II/ Commercial	3
CONMT 22	Uniform Building Codes II	3
CONMT 31A	Computer Apps in Contracting Scheduling	3
CONMT 29	Construction Project Management II	3
CONMT 31B	Computer Apps in Contracting Business Mgmt	3
CONMT 32	Materials and Methods of Construction	3
CONMT 30	State Contracting Licensing Law	3 OR
CONMT 40	Construction Contracts and Specifications	3

Total Required Units 36

Welding

	Units	
WELD 211AB	Arc Welding I & II	3/3
WELD 212	Welding Layout and Blueprint Reading	3
WELD 221A	Acetylene Welding I & II	3
WELD 204AB	Wire Feed Welding	3/3
WELD 203AB	Gas Tungsten Arc Welding (T.I.G.)	3/3

Total Required Units 24

What degree will I receive and how many course credits will I need?

Students can obtain either a Certificate of Completion or an Associate Degree. A Certificate of Completion is given after satisfactory completion of the required coursework. An Associate of Science Degree in carpentry, construction management, welding or wood technology is given after satisfactory completion of the above-listed required coursework plus additional general education and elective course units.

Where do I get more information?

Contact Laney College:

- Carpentry Department at (510) 464-3447
- Construction Management Department at (510) 464-3445
- Welding Technology Department at (510) 464-3433
- Wood Technology Department at (510) 464-3446 x2

