

Construction Trades

Program Description

Construction Trades offers a series of carpentry courses. Basic Construction Skills (CT 104) and Beginning Construction (CT 110), the introductory courses, are open to all students.

The advanced Construction Technology carpentry courses—Beginning Construction Trades (CT 111), Framing (CT 112), Roof Framing (CT 113), Beginning Finish Carpentry (CT 114), Intermediate Finish Carpentry (CT 115), Blueprint Reading (CT 116), Measuring and Calculating (CT 118), and Construction Remodel (CT 119)—are designed for students who have completed CT 110 or those with a minimum of one year of carpentry experience. Work Experience in Construction (CT 290) combines on-the-job training with classroom instruction.

Santa Barbara City College (Division of Apprenticeship Standards, Electricians Certification Unit Approved School #138) offers four Electrician Trainee courses as a “Partial” General Electrician curriculum. The courses—Blueprint Reading for Electricians, Electrical Mathematics, and Introduction to *National Electrical Code*—are designed for students working as electricians who want to prepare for the state certification exam and those required to be enrolled in order to continue working for a C-10 electrical contractor’s license.

For further information concerning the carpentry courses or the Electrician Trainee courses, contact Patrick Foster at 965-0581, ext. 6677.

Faculty & Offices

Dr. Patrick Foster, *Director*, ext. 6677
(foster@sbcc.edu)

Damon Gregory Millar, 680-4060
Sarah McKittrick, 331-9481

Course Descriptions

CT 110 — Beginning Construction (4.7) F — CSU

Skills Advisories: None

Introductory course in construction skills and concepts, with emphasis on residential wood construction. Designed for entry-level students interested in a career in the building trades. Topics include safety, planning, foundations, floors, walls, roofs, plumbing, electrical and insulation.

CT 112 — Framing (2.3) F, S — CSU

Course Advisories: Eligibility for ENG 100

Intermediate-level class in rough framing skills and concepts in residential wood construction. Designed for continuing students who have taken CT 110 and for carpenters with some experience in residential framing. Topics include safety, foundations, framing hardware, exterior siding, special wall construction, stairs, hip roofs, roof coverings, truss construction and cornice treatments.

CT 114 — Beginning Finish Carpentry (2.3) F, S — CSU

Course Advisories: Eligibility for ENG 100

Introduction to finish carpentry, with emphasis on residential wood construction. Designed for students who have already taken CT 110 or who have some prior experience in carpentry or construction. Topics include safety, tool care, door hanging, trim, molding, flooring, built-ins, railings and cabinets.

CT 115 — Intermediate Finish Carpentry (2.3) F, S — CSU

Skills Advisories: Eligibility for ENG 100

Intermediate finish carpentry, with emphasis on residential wood construction. Designed for students who have taken CT 110 or who have some prior experience in carpentry or construction. Topics include cabinet installation, cabinet construction, built-ins, paneling and wainscoting.

CT 116 — Blueprint Reading

(2.3) F, S — CSU

Course Advisories: Eligibility for ENG 100

Introduction to blueprint reading in residential wood construction. Designed for students who have already taken CT 110 or who have some prior experience in carpentry or construction. Topics include understanding the uses of blueprints, types of plans, drafting conventions, contents of plans, focus on floor plans, elevations and sections, using the architectural scale, drafting simple plans and shop drawings from plans.

CT 118 — Measuring and Calculating

(3) F, S — CSU

Skills Advisories: MATH 1

Introduction to measuring and calculating used in residential wood construction. Designed for students who have already taken CT 110 or who have some prior experience in carpentry or construction. Topics include working with common and decimal fractions, using the standard tape measure, using a calculator for construction, estimating material, understanding the special triangles used in roof rafter calculations, rafter length calculation and stair stringer calculation.

CT 119 — Construction Remodel

(4.7) F — CSU

Skills Advisories: Eligibility for ENG 100

Theory and skills for residential home remodeling. Designed for continuing students who have taken CT 110 and for carpenters with some experience in residential construction. Topics include design, planning, demolition, tie-in, green applications and safety.

CT 121 — Blueprint Reading for Electricians

(3) F, S — CSU

Skills Advisories: Eligibility for ENG 100 and ENG 103

Overview of blueprints, plans and specifications; symbols used in electrical-related trades; preparation and use of as-built drawings, wiring and line diagrams, schematics and ladder diagrams.

CT 153 — Electrical Mathematics

(3) F, S

Skills Advisories: MATH 1

Basic mathematics and its application to electrical and other technologies. Topics in arithmetic, common fractions, decimal fractions, percentages, graphs, measurement and introduction to algebra are covered.

CT 194 — Intro to National Electrical Code

(3) F, S

Skills Advisories: Eligibility for ENG 100 and 103

Layout and content of the *National Electric Code*. Purpose, intent and scope of electrical codes, as well as utilization and application. Also includes use of the *Code* for calculations and hazardous locations.

CT 196 — Construction Jobsite Management

(3) F, S — CSU

Skills Advisories: Eligibility for ENG 100 and 103

Introduction to jobsite supervision in the construction industry. Includes industry organization, documentation and record-keeping, personnel and financial management, as well as job planning and safety.

CT 290 — Work Experience in Construction

(1 – 4) F, S — CSU

Skills Advisories: None

Work experience on a construction job or project plus attending one orientation and a monthly meeting. Students perform assigned responsibilities as an employee, follow employer's rules, regulations and policies, write learning objectives, keep a record of time worked on a student data sheet, and secure employer's evaluation at the end of the semester.