

CONSTRUCTION TECHNOLOGY

ABOUT THIS AREA OF STUDY

College of the Sequoias offers two degrees in this area: Construction Technology and Construction Inspection. This area of study prepares students for entry-level employment and/or potential further study in the field of

Construction Technology through the study of building trades and also prepares students for inspection certification tests and for entry level building inspection employment. The Construction Inspection degree will also earn two years credit towards the four year experience requirement for a general building contractor's license.



WHAT YOU WILL LEARN

- Demonstrate safe methods of operation of construction related power tools
- List required site conditions, documents, equipment, and communication in order for building official to make an inspection
- Green Building in Residential Construction
- Procedures and Techniques for Residential Construction
- Code Requirements based on the latest edition of the International Residential Code

WHERE DO YOU SEE YOURSELF?

- Structural framing
- Truss construction and design
- Construction plan drafting
- Construction Sales
- Timber production
- Metal Manufacturing
- Building Inspection for municipalities
- Engineering Firms
- Private Home Inspection companies
- Construction Management

PROGRAM CONTACT:

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**BECOME A
COS GIANT!**

Apply at www.cos.edu/admissions today!

DEGREES & CERTIFICATES OFFERED

Associate of Science in Construction
Inspection (AS) – 61-64 units

Associate of Science in Construction
Technology (AS) – 65-67 units

Certificate of Achievement in Construction
Inspection – 24-26 units

Certificate of Achievement in Construction
Technology – 40-42 units

Skill Certificate in Carpentry/ Millwork – 13
units

Skill Certificate in Construction
Management – 13 units

Skill Certificate in Construction Practices –
14 units

Skill Certificate in Construction Theory – 15
units

SOME CLASSES YOU MIGHT TAKE

CT 100 Const Draw/Design Analysis 1

Architectural drafting techniques and standards progressing from fundamentals to completion of light construction drawings, basic floor plans, elevations, details and respective building code analysis. The course utilizes computer automated drafting.

CT 109 Residential Codes and Inspect

Study of residential building codes, residential inspections and construction management practices for residential construction. Course includes construction managers' responsibilities, key inspection points for total quality management, and construction managers' relationships with local officials, general contractor, and prospective occupants.

CT 205 Plumbing

Basic plumbing theory, materials and installation procedures, skill development for professional and non-professional plumbing students.

CT 132 Basic Building System & Codes

Basic building systems theory, including foundations, walls, roofs, mechanical, electrical,

corresponding building codes and inspections. Integration of building related to the environment and human aspects of building.

CT 220 Construction Practices 1

Hands- on construction practices on a construction site to construct specific building projects to plans and specifications and to develop or enhance building skills.

CT 270 Residential Wiring

Theory and practices of residential electrical systems, including branch circuits, distribution, transformers, system components, power calculations for voltage, current, wattage, and NEC application.

CT 262 Cabinet and Furniture Const.

Concepts of cabinet design, furniture design, layout, construction, safety and millwork for building individual projects.

CT 277 Structural Inspection

Structural inspection principles of concrete, wood and metal for construction management and inspection professions.

REQUIREMENTS

Please see our online catalog for specific requirements in this area: www.cos.edu/catalog