

CONSTRUCTION TECHNOLOGY, CONSTRUCTION MANAGEMENT OPTION, ASSOCIATE IN SCIENCE

The Associate in Science in Construction Technology—Construction Management Option prepares students with the knowledge-base necessary to be employable in the construction industry. Topics will include the critical evaluation of established building standards including codes, architectural design, and project management. The educational outcomes will include the ability to identify code-compliant construction, interpret legal requirements, differentiate the use of technical vocabulary, analysis of blueprints and specifications, and examination of project sequence.

The Construction Technology (CT) program has two options; Building Inspection and Construction Management. The Building Inspection option has an emphasis on code interpretation and project design. The Construction Management option has an emphasis on business management and project supervision. Students can enroll into an individual class in order to develop a specific skill set such as a license or industry certification, or complete a one-year vocational Certificate of Achievement degree, or complete a two-year Associate of Science degree, or prepare for transfer to a university-level Bachelor of Science program. Ventura College CT students are prepared for a wide range of construction-related positions such as self-employed contractors, building inspection, project designers, and various levels of supervision. The CT program provides many different courses to serve diverse student needs.

The CT program at Ventura College is over 40 years old. The program was founded as a means to help educate and train builders and inspectors along the central California coast. The courses are designed for beginning students as well as working professionals. Our emphasis is on helping to train qualified construction managers and industry craftsmen. There are two programs: Building Inspection and Construction Management. Job opportunities in both fields are excellent. Students can enroll into an individual class in order to develop specialized skills, or complete a one-year Certificate of Achievement program, or complete a two-year Associate of Science degree.

Course ID	Title	Units/Hours
Required Core Courses		
CT V20/ARCH V11/DRFT V02B	Blueprint Reading: Architectural/Construction	3
CT/ARCH V64	Building Construction: Materials and Methods	3
CT V77	Construction Business Management	3
CT V79	Construction Estimating	3
Required Core Units		12
Required Additional Courses		
List A: Select 8 courses from the following:		

CT/ARCH V12	Advanced Blueprint Reading: Commercial/Industrial	3
CT V30	Shop Woodworking	3
CT V50	Construction Contractor License Preparation	3
CT V52	Property Inspection	3
CT/ARCH V58	International Residential Code	3
CT/ARCH V59	International Building Code	3
CT/ARCH V60	Simplified Engineering for Building Construction	3
CT V63	Concrete and Masonry Construction	3
CT V66	National Electrical Code	3
CT V67	Building Accessibility Regulations	2
CT V70	California Green Building and Energy Code	3
CT V71	Uniform Plumbing Code	3
CT V72	Uniform Mechanical Code	3
CT/ARCH V75	Introduction to Electrical, Plumbing, and Mechanical Systems	3
CT V76	Construction Job Site Management	3
CT V96	Work Experience Education in Construction Technology	3
MT V04	Measurements and Computations	3
Required Additional Units		23-24

Total Major Units 35-36

VCCCD General Education Units	
Required Major Units	35-36
VCCCD General Education Pattern	24
Double-Counted Units	(0)
Elective Units	0-1
Total Units for the A.S. Degree	60

Year 1		
Fall Semester		Units/Hours
CT/ARCH V64	Building Construction: Materials and Methods	3
ENGL C1000	Academic Reading and Writing	4
Select Course from Required Additional Courses List		3
Select Course from Required Additional Courses List		3
Select Course from VC Local GE Area 2		3
Units/Hours		16

Spring Semester		
CT V20/ARCH V11/DRFT V02B	Blueprint Reading: Architectural/Construction	3
Select Course from Required Additional Courses List		3
Select Course from Required Additional Courses List		3
Select Course from Required Additional Courses List		3
Select Course from VC Local GE Area 1b		3
Units/Hours		15

Year 2		
Fall Semester		Units/Hours
CT V79	Construction Estimating	3
Select Course from Required Additional Courses List		3
Select Course from VC Local GE Area 3		3
Select Course from VC Local GE Area 5		3
Select Course from VC Local GE Area 6		3
Units/Hours		15

Spring Semester

CT V77	Construction Business Management	3
Select Course from Required Additional Courses List		3
Select Course from Required Additional Courses List		2-3
Select Course from VC Local GE Area 4		3
Select Course from VC Local GE Area 7		3
Select Course...Elective Course (If needed)		1
Units/Hours		15-16
Total Units/Hours		61-62

Upon successful completion of this program, students will be able to:

- Prepare and evaluate construction cost estimates using quantity takeoffs, unit pricing, and cost-control methods appropriate to residential and light commercial projects.
- Interpret and apply construction drawings and written specifications to determine scope of work, materials, and sequencing requirements.
- Develop and analyze construction schedules that establish the logical sequence of construction activities and coordination of trades.
- Differentiate and coordinate office operations and field operations to support project planning, documentation, communication, and site supervision.
- Apply applicable building codes, safety standards, and regulatory requirements to evaluate construction work for compliance and risk management.