



Degree Guide:

Construction Technology, Associate in Applied Science (AAS) Degree

Program

[Construction Technology \(CONST\)](#)

Degree Type

Professional Technical Degree

Program Coordinator

Patrick Nickerson

(360) 417-7972

pnickerson@pencol.edu

Program Description

Peninsula College's Construction Technology program is an important component to the college's commitment to workforce training in sustainable industries. The Associate in Applied Science (AAS) degree in Construction Technology offers a comprehensive program designed to prepare students for employment in sustainable green construction trades, alternative building materials and methods and construction management. Foundation classes cover basic woodworking, foundations framing, roof systems and alternative energy. Core courses teach students green building concepts and design, engineered building materials, blueprint reading and alternative building methods. Capstone classes include jobsite management, construction leadership and estimation. Instruction consists of classroom presentations, hands-on training in lab settings and online learning modules.

Program Length: 6 Quarters

Program Code: CARCTAPT

Career Opportunities and Earnings

Graduates of the Construction Technology program may find entry-level positions in residential and small commercial carpentry businesses and other related companies. Some graduates may elect to start their own green-based building business. The demand for carpenters with these skills is expected to increase over the next decade.

- Cabinetmaker
- Carpenter
- Construction management
- Form builder
- Framer

For current employment and wage estimates, please visit and search for the relevant occupational term: [bls.gov/oes](https://www.bls.gov/oes).

Program Outcomes

When this program is completed, the student will be able to:

- Use hand tools and power machinery safely
- Perform all aspects of basic carpentry
- Perform energy efficient tasks on a new residential structure
- Perform an energy analysis on an existing structure



- Research, plan, design and implement an energy efficient retrofit plan
- Develop and design a building retrofit that meets Leadership in Energy Environmental Design (LEED) and International Living Building Institute (ILBI) standards

Approximate Additional Costs

- Books, supplies and miscellaneous fees (per quarter): \$150
- Tools and equipment: Most tools are provided. Students may choose to purchase their own tools and equipment at their own expense. Costs vary, but may be \$300 or more.

Sample Schedule

This sample schedule is provided as a guide for a full-time student starting in fall quarter whose goal is to earn the AAS. The typical student schedule is based on entering the program during the fall quarter, however some programs allow students to enter in the winter or spring as well. Since not all do, please confirm with an advisor whether this program must be started during a specific quarter or not.

First Quarter (Fall)

Catalog #	Course Title	Credits
CMST& 220 or HUMDV 120		3-5
CONST 101	Introduction to Woodworking	3
CONST 106	Foundations and Framing	5
FA 100	Industrial First Aid	1

Second Quarter (Winter)

Catalog #	Course Title	Credits
ENGL& 101	English Composition I	5
CONST 102	Woodworking II	5
CONST 105	Blueprint Reading	3
CONST 108	Roof Systems and Roofing	5

Third Quarter (Spring)

Catalog #	Course Title	Credits
AMATH 121 or MATH& 107 or above		5
CONST 103	Finish Carpentry	5
CONST 107	Siding, Decks and Stairs	5



Fourth Quarter (Fall)

Catalog #	Course Title	Credits
CONST 206	Advanced Carpentry Design and Concepts	5
CONST 210	Job Site Management	3
CONST 220	Alternative Building Methods	5
Elective, Internship, or Special Project		5

Fifth Quarter (Winter)

Catalog #	Course Title	Credits
CONST 136	Building Permits and Codes	3
CONST 195 or Advisor Approved Elective		7
CONST 215	Carpentry Estimation	3

Sixth Quarter (Spring)

Catalog #	Course Title	Credits
CONST 160	Small Farm and Backyard Carpentry	3
CONST 212	Engineered Building Materials & Methods	5
CONST 225	Construction Management	3
Elective, Internship, or Special Project		3

Your personal educational plan will vary based on many factors including:

- The quarter you begin
- How many classes/credits you plan to take in each quarter
- Your math and English placement; Learn more about placement options by visiting the [Assessment and Placement website](#).
- If you start in our [Transitional Studies](#) program

Total Credits	90
----------------------	-----------