Green Building

Year One (Sample schedule)

Quarter One (Fall)
- GRBD 165 Intro to Alt Energy .............................................5
- GRBD 101 Introduction to Woodworking ..............................3
- GRBD 106 Foundations & Framing ......................................5
- GRBD 210 Jobsite Management .........................................3

Quarter Two (Winter)
- GRBD 102 Woodworking II (Cabinetry) ..............................5
- GRBD 107 Siding, Decks, Stairs ........................................5
- ENGL& 101 English Composition I .....................................5

Quarter Three (Spring)
- GRBD 103 Finish Carpentry ..............................................5
- GRBD 108 Roof Systems ..................................................5
- GRBD 160 Backyard Carpentry ..........................................3
- HUMDV 120 Human Relations ..........................................3

Year Two (Sample schedule)

Quarter Four (Fall)
- GRBD 206 Green Building, Concepts & Design .................5
- AMATH 121 Applied Math ...............................................5
- FA 100 Industrial First Aid ..............................................1
- ELECTIVE ........................................................................5

Quarter Five (Winter)
- BUS 210 Business Plan Intensive .....................................3
- GRBD 212 Engineered Building Materials & Methods ..........5
- GRBD 105 Blueprint Reading ...........................................3
- GRBD 215 Estimation ....................................................3

Quarter Six (Spring)
- CAT 140 Excel .................................................................5
- GRBD 220 Alternative Building Methods ..........................5
- GRBD 225 Construction Management .............................3

Total Credits Required 90-92

Specifics

Length of Program
Courses with prerequisites, and the placement level of the student, may extend the Length of Program listed on this page.

Which Quarter Can I begin?
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.

Details
Completion Award: AAS Degree
Length of Program: 6 Quarters
Program Code: 745J

Program Coordinator (contact with questions)
Patrick Nickerson  (360) 417-7972
Office: A9  pnickerson@pencol.edu

Apply online: http://pencol.edu/GetStarted

Notes
Green Building

Program Description
Peninsula College’s Green Building program is an important component to the college’s commitment to workforce training in sustainable industries. The Associate of Applied Science degree in the Green Building 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.

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

- Use hand tools and power machinery safely, accurately, and efficiently
- Perform all aspects of basic carpentry, including residential and light commercial framing, roof construction, decks and stair systems, and finish carpentry.
- Research, plan, design, and build structures in compliance with the International Building Code.
- Design and build structures using Engineered Building Materials and Methods.
- Perform an energy analysis on an existing structure
- Research, plan, and design an energy efficient plan modification for an existing blueprint.
- Design and build a structure applying advanced framing, air infiltration, and other Green Building Techniques

Program Prerequisites
College-level skills in English and math (eligibility for courses numbered 100 or higher) are required before registering for the English or applied math courses required in this program. Students may need to complete prerequisite coursework. The Placement test will help determine placement level if not known. Previous coursework may also indicate placement level.

Career Opportunities
Graduates of the Green Building 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 Green Construction skills is expected to increase over the next decade.

Potential Positions and Earning
Potential positions include carpenter, cabinetmaker, framer, form builder, construction management. For current employment and wage estimates, please visit and search for the relevant occupational term: www.bls.gov/oes

Test Fees
Placement test (one time cost): .......................................................... $20.00

Approximate Additional Costs
Books, supplies and miscellaneous fees
(per quarter) .......................................................................................... $150.00
Tools and equipment (optional – see below) ........................................... $300.00

(Equipment Cost – Most of the tools are provided. If a student would like to purchase their own tools and equipment at their own expense the cost would be $300.00 or more depending on the tools)