

Yavapai College Catalog • 2009-2010

**Residential Building
Technology (RBT)**

www.yc.edu

RBT103. Basic Home Remodeling (3)

Basic remodeling from design to completion
Design, permit, contract, manage and construct
small, residential remodels. Field trips required.

Prerequisite: [Reading Proficiency](#).

Two lecture. Three labs

RBT105. Be Your Own Contractor (3).

Maximize your building experience while
minimizing your anguish. From permitting to
completion, including site and house selections,
choosing subs and suppliers, estimating and
scheduling the entire project.

Prerequisite: [Reading Proficiency](#).

Three lectures

RBT110. Residential Building I (9)

Progressive and innovative residential building
for the 21st century - Includes the use of building
materials, systems, and technologies to build
healthy, safe, durable, comfortable,
environmentally responsive houses

Prerequisite: [Reading Proficiency](#).

Three lecture. Eighteen labs

RBT111. Residential Technology I (4)

Layout a building, rough-in utilities, and select
building materials, systems and technologies
using the whole systems approach.

Prerequisite: [Reading Proficiency](#).

Four lectures

**RBT112. Construction Drawings and
Documents (3)**

Reading and understanding of residential
construction documents including architectural
plans, specifications, and construction working
drawings

Three lectures

RBT121. Residential Building II (9)

Progressive and innovative residential building
for the 21st century

Includes the use of building materials, systems
and technologies to build healthy, safe, durable,
comfortable, environmentally responsive houses
from dry-in to commission/ certification

Prerequisite: [Reading Proficiency](#).

Three lecture. Eighteen labs

RBT114. AutoCAD I (3)

Introduction to theory and application of
computer-aided drafting for production of
residential working drawings

Two lecture. Three labs

RBT113. Residential Graphics I (4)

Fundamentals of residential architectural
drafting, including introduction to equipment,
lettering, basic drawing concepts, minimum code
requirements and structural design criteria-
Emphasis on producing a partial working set of
two-dimensional drawings for a single family
dwelling, including site, floor and foundation
plans.

Prerequisite: [Reading Proficiency](#).

Three lecture. Three labs

RBT122. Residential Technology II (4)

Interior and exterior residential building finish
processes beyond rough framing and dry-in.
Emphasis on the construction process and the
responsibilities of each building
trade/subcontractor.

Integration of current building-science principles
into mainstream residential construction
practices.

Prerequisite: [Reading Proficiency](#).

Four lectures

RBT123. Estimating and Bidding (3)

Fundamental principles and practices of
residential construction estimating and bidding
Includes reading working drawings and written
specifications to produce material quantity
takeoffs, estimate labor time and costs, and
assess overhead costs and profit margins.
Emphasis is on computer-assisted cost
estimating.

Prerequisite: RBT 112. [Reading Proficiency](#).

Three lectures

RBT125. Residential Graphics II (4)

Advanced drafting skills to complete a set of
working drawings for a single-family dwelling;
Includes a project to design a new residence
and draft preliminary working drawings.

Prerequisite: RBT 113. [Reading Proficiency](#).

Three lecture. Three labs