







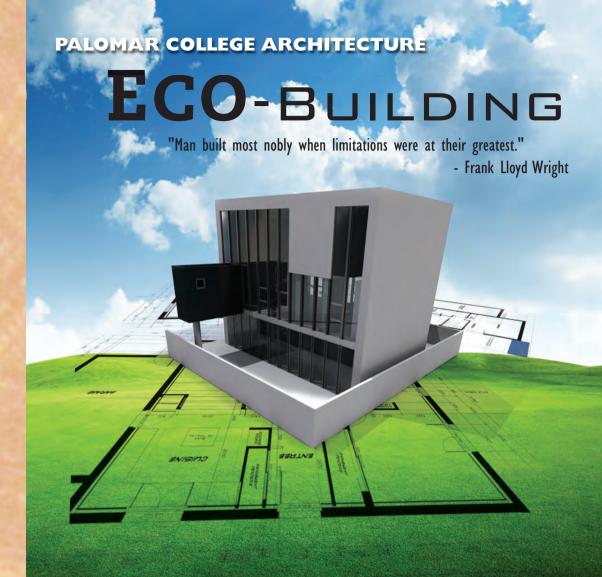
Technology Sustainability Architecture EFFICIENCY Systems Universal Design Sollan Green Materials WATER











program is

designed to provide the

knowledge and skills needed to

promote energy and resource efficient

building practices through current code changes and

new tax cost payback. Graduates will be prepared for numerous
jobs within the deconstruction and remodel industries and will have
skills needed by builders, contractors, architects or designers seeking
assessment of current construction methods for framing, water use and
LEED environmental compliance.

"Sustainable architecture is a practical, energy conscious commitment to design an environmental ethical future through responsible construction management. Building practices, potential costing tools, energy efficiency, resource conservation, indoor air quality, remodeling/renovation options and control of building operations from planning a building to deconstruction are covered in this program. Coursework responds to current energy codes throughout California and the nation. Sustainable building is smart business."



ECO-BUILDING PROFESSIONAL Certificate of Achievement

Quality building provides the tools for the intelligent design of durable, resource efficient construction technique in the California region. Decision making for our state combines land use planning with stewardship principles.

Program Requirements

TOTAL UNITS		18
ID 130	Light and Color	3
ID 105	Materials and Resources	3
ARCH 216	Architectural Design Fundamentals II	5
ARCH 160	Environmental Architecture and Design	4
ARCH 135	Architectural Materials and Methods of Construction	3

Recommended Electives

GEOG 120 Introduction to Geographic Information Systems and GIS Software 4 MATH 60 Intermediate Algebra 4

ARCH 135 Architectural Materials and Methods of Construction(3) 11/2 hours lecture - 41/2 hours laboratory
Transfer acceptability: CSU
An introduction to the use and application of building construction materials and processes.
ARCH 160 Environmental Architecture and Design(4)
3 hours lecture - 3 hours laboratory
Note: May not be taken for Pass/No Pass grading
Transfer acceptability: CSU; UC - ARCH 144, 145, 160, 215, 216 and ART 102, 103 combined: maximum credit, 18 units
An introduction to the theory and application of bio-climate adaptive architectural design in small scale buildings including
effective energy use, solar geometry, environmental measurements, heat flow, heat transfer, and thermal masses. Emphasis is
on design and construction principles for lighting, passive shading, heating, cooling and ventilating envelope load-dominated
buildings. This is a service learning course. Students must be involved in relevant community service as a part of this course
work. Students will conduct research and work collaboratively towards a solution for community development.
ARCH 216 Architectural Design Fundamentals II(5)
2½ hours lecture - 7½ hours laboratory
Recommended preparation: ARCH 145 and 215
Transfer acceptability: CSU; UC - ARCH 144, 145, 160, 215, 216 and ART 102, 103 combined: maximum credit, 18 units
Transfer acceptability: CSU; UC - ARCH 144, 145, 160, 215, 216 and ART 102, 103 combined: maximum credit, 18 units Complex architectural problems involving consideration of factors of structure, site, and climate.
Complex architectural problems involving consideration of factors of structure, site, and climate.
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merchandising. Emphasizes lighting needs, light sources, light calculations, and energy conservation.