CONSTRUCTION TECHNOLOGY (CT)

CT 100 Construction Drawing and Design Analysis 1
4unit(s)
Hours: 3 Lecture/Discussion
3 Lab

CT 100 is a basic drafting course which incorporates architectural drafting techniques and standards progressing from fundamentals to completion of light construction drawings, basic floor plans, elevations, details and respective building code analysis. The course utilizes computer automated drafting.

CT 101 Construction Drawing and Design Analysis 2
4unit(s)
Hours: 3 Lecture/Discussion
3 Lab

Computer aided construction drafting including construction plan development, details for wood, concrete and structural steel and applicable codes. 
Advisory on Recommended Preparation: CT 100 or equivalent college course with a minimum grade of C or equivalent skills as determined by departmental assessment.

CT 105 Computer Asst. Const. Theory
4unit(s)
Hours: 3 Lecture/Discussion
3 Lab

A study of basic construction practices and theory Including computer estimating, scheduling, and budgeting.

CT 109 Residential Codes and Inspect
3unit(s)
Hours: 3 Lecture/Discussion
Equivalent Course: CT 272

Study of residential building codes, residential inspections and construction management practices for residential construction. Course includes construction managers' responsibilities, key inspection points for total quality management, and construction managers' relationships with local officials, general contractor, and prospective occupants.

CT 132 Basic Building System & Codes
3unit(s)
Hours: 3 Lecture/Discussion

Basic building systems theory, including foundations, walls, roofs, mechanical, electrical, corresponding building codes and inspections. Integration of building related to the environment and human aspects of building.

CT 205 Plumbing
3unit(s)
Hours: 3 Lecture/Discussion
1 Lab

Basic plumbing theory, materials and installation procedures, skill development for professional and non-professional plumbing students.

CT 220 Construction Practices I
3unit(s)
Hours: 2 Lecture/Discussion
4 Lab
Equivalent Course: CT 214

Hands-on construction practices on a construction site to construct specific building projects to plans and specifications and to develop or enhance building skills.

CT 221 Construction Practices 2
3unit(s)
Hours: 2 Lecture/Discussion
4 Lab
Equivalent Course: CT 215

Hands-on construction practices on a construction site to construct specific building projects to plans and specifications and develop or enhance building skills with emphasis on quality management.
CT 222 Construction practices 3  
Hours: 2 Lecture/Discussion  
4 Lab  

Equivalent Course: CT 218  
Advanced hands-on construction practices on a construction site to construct specific building projects to plans and specifications and develop or enhance building skills with emphasis on controlling construction budgets.

CT 223 Construction Practices 4  
Hours: 2 Lecture/Discussion  
4 Lab  

Equivalent Course: CT 219  
Hands-on construction practices on a construction site to construct specific building projects according to plans and specifications and develop or enhance building skills with emphasis on Green Building.

CT 250 Basic Carpentry and Construction Practices  
Hours: 3 Lecture/Discussion  
3 Lab  
Introduction to construction tools, materials, measuring, millwork, and basic construction practices.

CT 260 Interior Millwork  
Hours: 3 Lecture/Discussion  
3 Lab  
Mill cabinet functional and spatial concepts, design and construction, interior finish components and wood-shop practices.

CT 262 Cabinet and Furniture Const.  
Hours: 3 Lecture/Discussion  
3 Lab  
Equivalent Course: CT 162AB  
Concepts of cabinet design, furniture design, layout, construction, safety and millwork for building individual projects.

CT 270 Residential Wiring  
Hours: 3 Lecture/Discussion  
Students will learn practical applications of residential electrical systems, including branch circuits, distribution, transformers, system components, power calculations for voltage, current, wattage, and NEC application.

CT 271 Life Safety for Construction  
Hours: 3 Lecture/Discussion  
Study of building codes and construction practices for building occupants' and other related building officials' safety.

CT 273 Electrical Codes  
Hours: 3 Lecture/Discussion  
Electrical code theory, plan review, math and field inspection for construction management and inspection professions.

CT 275 Plumbing Inspection  
Hours: 3 Lecture/Discussion  
Equivalent Course: CT 175AD  
Concepts of plumbing systems, code applications, fixture allocation and field inspection.

CT 277 Structural Inspection  
Hours: 3 Lecture/Discussion  
Structural inspection principles of concrete, wood and metal for construction management and inspection professions.

CT 278 Residential Energy  
Hours: 3 Lecture/Discussion  
This course will cover all facets of energy consideration involved in residential construction including green building principles, California Title 24 requirements, HVAC, Net energy requirements, and current materials of construction related to energy.