

CONSTRUCTION/BLDG TECH (CNBT)

CNBT 1210

Basic Construction Safety

CRT HRS:2 LEC HRS:2 LAB HRS:1 OTH HRS:0

This course covers basic job site construction safety in residential, commercial, and industrial construction.

Prerequisite: None.

CNBT 1315

Field Engineering I

CRT HRS:3 LEC HRS:2 LAB HRS:2 OTH HRS:0

This course includes surveying equipment, sketches, proper field note taking, methods of staking, layout of building site, and horizontal and vertical controls.

Prerequisites: CNBT 1342, CNBT 1402.

CNBT 1342

Building Codes and Inspections

CRT HRS:3 LEC HRS:2 LAB HRS:2 OTH HRS:0

This course is an introduction to building codes and standards applicable to building construction and inspection processes. The student will be expected to identify various construction classifications and occupancy categories; cross-reference the guidelines, tables, charts, and specifications as presented in the building codes; and assess and determine if construction meets building code standards for site, foundation, rough, and final building structure inspection.

Prerequisite: None.

CNBT 1380

CAPSTONE: Cooperative Education

CRT HRS:3 LEC HRS:1 LAB HRS:0 OTH HRS:20

This course is a career-related activities encountered in the student's area specialization offered through an individualized agreement among the College, employer and student. Under the supervision of the College and the employer, the student combines classroom learning with work experience in combination with a lecture component. The student will be required to, as outlined in the learning plan, apply the theory, concept and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

Prerequisite: CNBT 2344, CNBT 1459.

CNBT 1400

Residential and Light Commercial Construction Drawings

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is an introduction to construction drawings with a focus on residential and light commercial construction.

Prerequisite: Completion of or concurrent enrollment in CNBT 1411.

CNBT 1402

Mechanical, Electrical & Plumbing Systems in Construction I

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is a presentation of the basic mechanical, plumbing, and electrical components in construction and their relationship to residential and light commercial buildings.

Prerequisites: CNBT 1400, CNBT 1411.

CNBT 1411

Construction Materials and Methods I

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is an introduction to construction materials and methods and their applications.

Prerequisite: Completion of or concurrent enrollment in CNBT 1400.

CNBT 1418

Construction Tools and Techniques

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is an introduction to the fundamentals of the selection and use of hand tools, portable power and stationary power tools and related construction equipment.

Prerequisite: None.

CNBT 1446

Construction Estimating I

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is an introduction to the fundamentals of estimating materials and labor costs in construction. The student will be required to explain estimating procedures; estimate materials from blueprints; and calculate labor units and costs.

Prerequisite: CNBT 1411.

CNBT 1459

Project Scheduling

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is a study of conventional scheduling using critical-path-method, precedence networks, bar charts, monthly reports, and fast-track scheduling.

Prerequisite: CNBT 1446, CNBT 2442.

CNBT 2304

Construction Methods and Materials II

CRT HRS:3 LEC HRS:2 LAB HRS:4 OTH HRS:0

This course is a continuation of the study of the properties of building materials, methods and equipment for their integrated use in completing construction projects. The student will be required to identify materials used in construction; identify and describe the basic characteristics, traditional uses for, and manner of assembly of common materials used in construction.

Prerequisite: DFTG 1315.

CNBT 2317

Green Building

CRT HRS:3 LEC HRS:2 LAB HRS:2 OTH HRS:0

This course is an introduction to methods and materials used for buildings that conserve energy, water and human resources. The student will be required to explain the concept of Green Building; select equipment to build rainwater harvesting systems; and identify appropriate materials to build exterior and interior systems that reflect "Green by Design" concepts.

Prerequisite: CNBT 1402.

CNBT 2344

Construction Management II

CRT HRS:3 LEC HRS:2 LAB HRS:2 OTH HRS:0

This course is a management course in contract documents, safety, planning, scheduling, production control, and law and labor. Topics include contracts, planning, cost and production peripheral documents, and cost and work analysis.

Prerequisite: CNBT 2442.

CNBT 2442

Construction Management I

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is an introduction to human relations management skills in motivation on the job site. Topics include written and oral communications, leadership and motivation, problem solving, and decision making.

Prerequisite: CNBT 1400, CNBT 1411.