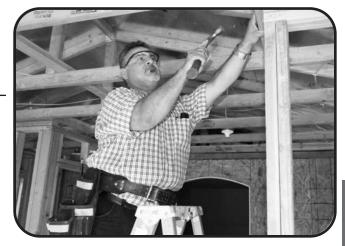
# **BUILDING CONSTRUCTION TECHNOLOGY**

## DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree (A.S.) Certificate of Achievement Specialization Certificate in Carpentry

## DESCRIPTION

The Building Construction Technology Associate in Science degree along with the certificate and specializations in Carpentry and Concrete Masonry, are designed to provide instruction in manipulative skills, technical knowledge, and related trade information, which will prepare the student for employment in the building construction industry. The course work for the associate degree also emphasizes subject areas that are significant to the construction worker such as engineering fundamentals, construction management, business administration, humanities and social sciences, and the development of analytical and communication skills through the general education requirements.



#### **PROGRAM LEARNING OUTCOMES**

- 1. Measure and understand linear dimensions on plans using an architect scale to be able to interpret the actual measurement according to the scale being used.
- 2. Perform cost estimates for a construction projects using a local index.
- 3. Understand the relationship between tensile strength and compressive strength to understand how they interact under pressure.

### ASSOCIATE DEGREE AND CERTIFICATE OF ACHIEVEMENT PROGRAMS

The Associate in Arts (AA) or the Associate in Science (AS) Degree involves satisfactory completion of a minimum of 60 semester units with a C average or higher, including grades of C in all courses required for the major, and fulfillment of all IVC district requirements for the associate's degree along with all general education requirements. The degree provides a sound basis for transfer to upper division institutions for additional degrees or for higher vocational preparation. To be eligible to receive an Associate Degree the student must complete the requirements for the major, the District requirements for an Associate Degree, and the General Education requirements. In addition students must maintain a minimum grade point average and meet the minimum grade requirements of their program. Detailed information is available in the college catalog.

The Certificate of Achievement program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

## **CAREER OPPORTUNITIES**

Of the career opportunities identified some will require the completion of degree requirements at 4-year colleges and universities.

- Construction Manager General Contractor
- Construction Estimator
- Technical Salesperson
- Sub-Contractor
- Construction Consultant
- Civil Engineer Structural Engineer Environmental Engineer

- Project Manager
- Architect
- Construction Scheduler or Planner
  Forensic Construction Specialist

## **TRANSFER PREPARATION**

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

#### **Transfer Resources:**

www.ASSIST.org - CSU and UC Articulation Agreements and Majors Search Engine

www.CSUMentor.edu - CSU System Information

www.universitvofcalifornia.edu/admissions /index.html - UC System Information

www.aiccu.edu - California Independent Colleges and Universities, Association of

http://wiche.edu/wue - Western Undergraduate Exchange Programs

## **FINANCIAL AID**

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs - grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition. fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: www.imperial.edu/students/ financial-aid-and-scholarships/

## **BUILDING CONSTRUCTION TECHNOLOGY**

### **ASSOCIATE DEGREE PROGRAM**

#### **BUILDING CONSTRUCTION TECHNOLOGY MAJOR – A.S. DEGREE**

Twenty-six (26.0) units required for the major.

ALL COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

Ι.	Required for the major (26.0 units)					
	BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0		
	BLDC	110	Construction Blueprints, Specifications, Measurements ar	nd Codes 3.0		
	BLDC	130	Carpentry Layout and Framing	4.0		
	BLDC	135	Residential Plumbing Applications	3.0		
	BLDC	140	Building Construction Methods and Materials	3.0		
	BLDC	145	Concrete Formwork, Layout and Setting	3.0		
	BLDC	180	Building Planning and Cost Estimation	3.0		
	BLDC	185	Concrete Footings, Flatwork & Detail Work	4.0		

**Total Major Units** 

#### **CERTIFICATE PROGRAM**

#### **BUILDING CONSTRUCTION TECHNOLOGY CERTIFICATE**

Twenty-six (26.0) units required for the certificate.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

#### I. Required for the certificate (26.0 units)

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
BLDC	110	Construction Blueprints, Specifications, Measurements & Code	es 3.0
BLDC	130	Carpentry Layout & Framing	4.0
BLDC	135	Residential Plumbing Applications	3.0
BLDC	140	Building Construction Methods & Materials	3.0
BLDC	145	Concrete Formwork, Layout & Setting	3.0
BLDC	180	Building Planning & Cost Estimation	3.0
BLDC	185	Concrete Footings, Flatwork & Detail Work	4.0

**Total Certificate Units** 

26.0

26.0

## **BUILDING CONSTRUCTION TECHNOLOGY**

#### SPECIALIZATION CERTIFICATE

The Specialization Certificate demonstrates a completion of coursework<u>in addition</u> to the major in Building Construction Technology.

ALL COURSES FOR THESE CERFTIFICATES MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

#### BUILDING CONSTRUCTION TECHNOLOGY: CARPENTRY SPECIALIZATION - Major Plus 6.0 Units

The Carpentry Specialization is designed to provide instruction in manipulative skills, technical knowledge, and related trade information, which will prepare the student for employment in the Building Construction Industry.

#### **PROGRAM LEARNING OUTCOMES**

1. Identify four blueprint symbols and learn their meaning and usage in blueprints; compare the identified symbols to symbols used in other countries in order to understand symbol standardization in the world; measure a linear dimension using an architect scale to be able to interpret the actual measurement according to the scale being used.

2. Create a reliable cost estimate for a construction project in our county based on square footage and compare the same estimate based on labor and material quantities.

3. Students will create a layout and analyze it and test it to make sure it is perfectly square.

I.	The major plus seven (7.0) additional units in Carpentry course work.								
	BLDC	150	Carpentry Methods, Materials & Tools	3.0					
	BLDC	190	Carpentry Trim & Detail Work	3.0					
Tota	26.0								
Bui	6.0								
100	Total Certificate Units: 32.0								

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