COMPUTER TECHNOLOGY - ASSOCIATE IN SCIENCE

Plan Code: 2126

This degree is designed to prepare students for employment in a variety of computer-related fields. Students wishing a bachelor's degree (transfer program) should meet with a counselor to discuss how this program fully articulates with Cal State Dominquez Hills' Computer Technology Program.

Program Student Learning Outcomes

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Prepare students for transfer to baccalaureate-granting institutions.
- Provide educational and career opportunities in the computer technology field.

Program Requirements

This degree requires the completion of General Education coursework plus the following:

Code Number	Course Title	Units
REQUIRED COURSES		
CS 21	Introduction to Computer Science-Java	3
COSA 50	Intro to IT Concepts and Applications	4
COSN 5	Computer Hardware Fundamentals	4
COSP 7	Programming Concepts and Methodologies	4
COSP 8	Visual Basic Programming	4
COSW 20	Front End Website Development	4
MATH 50	Precalculus Math	5
STAT 1/1H	Elementary Statistics	4
Required Subtotal		**32**
Complete one of the following: [1]		19-39
LBCC General Education (Plan A) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-a/)		
CSU GE Breadth (Plan B) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-b/)		
IGETC Pattern (Plan C) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-c/)		
Electives (as needed to reach 60 degree-applicable units) [2]		
Minimum Degree Total		**60**

[1] Units for the major may be double-counted for LBCC GE, CSU GE, or IGETC; see counselor for limitations.

[2] Elective units from course(s) numbered 1-599, if needed, to reach 60 degree-applicable units.

CONSTRUCTION TECHNOLOGY - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3948

This program is designed to give students a broad knowledge of the construction industry. Coursework includes job safety, construction skills, work ethics and hands-on laboratory courses to provide trade-related skills.

Program Student Learning Outcomes

- Interpret residential building codes.
- Utilize safe techniques when using hand and power tools

Program Requirements

Code Number	Course Title	Units
REQUIRED COURSES		
CONST 15	Blueprint Reading for Construction Trade	3
CONST 70	Cost Estimating	3
CONST 200	Construction Apprenticeship Readiness	7
CONST 205	Forklift Fundamentals	0.5
CONST 230	Carpentry Fundamentals	3
CONST 235	Residential Roof Framing	3
CONST 240	Finish Carpentry	3
CONST 245	Residential Stairs	3
CONST 275	Contracting Laws and Management	3
COSA 1	Computer Information Competency	1
ELECT 253	OSHA Standards for Construction Safety	2
Total Units		**31.5**

CONSTRUCTION APPRENTICESHIP READINESS - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3953

This program provides career opportunities in various aspects of construction, a variety of sub-crafts, and contracting. By completing the certificate requirements, students acquire proficiency in basic construction techniques and in analyzing, evaluating, and providing solutions for a variety of job site situations. Students will be able to interpret blueprints, estimate materials, layout, and construct a basic residential structure in accordance with Uniform Building Code requirements. Competencies are assessed regularly by student performance in the construction technology laboratory. will provide essential skills that will enable students to gain entry-level employment in the field of Home Remodeling and Repair in the construction industry. By completing the certificate requirements, students acquire proficiency in basic construction techniques required to provide solutions for a variety of job site situations. The program provides career opportunities in various aspects of construction, including carpentry, plumbing, electrical, HVAC, concrete masonry and other construction crafts.

Program Student Learning Outcomes

- Demonstrate the technical and organization employability skills required by the construction industry.

Program Requirements

Code Number	Course Title	Units
REQUIRED COURSES		
BCOM 262	Interpersonal Skills for the Workplace	1
CONST 200	Construction Apprenticeship Readiness	7
COSA 1	Computer Information Competency	1
Total Units		**9**

CONSTRUCTION APPRENTICESHIP READINESS - CERTIFICATE OF COMPLETION

Plan Code: 6034

This program provides instruction in tools and material, CPR and First Aid, OSHA 10, blueprint reading, basic math for construction, heritage of American worker, diversity awareness and sexual harassment, job search skills, construction laboratory, physical agility, Microsoft Office, operating systems, and working online.

Program Student Learning Outcomes

- Demonstrate the technical and organization employability skills required by the construction industry.
- Demonstrate knowledge of safety techniques when operating construction tools and equipment.
- Differentiate and evaluate the uses and standards of computer hardware and software.

Program Requirements

Code Number	Course Title	Hours
REQUIRED COURSES		
CONST 600	Construction Apprenticeship Readiness	180
COSA 601	Computer Information Competency	36
Total Hours		**216**

CONSTRUCTION MANAGEMENT FUNDAMENTALS - CERTIFICATE OF COMPLETION

Plan Code: 6029

This program is intended as an introduction to both the technical and business sides of construction and is intended to prepare students for a career in Construction Management. It covers the fundamentals of construction in a logical, simple, and concise format, and introduces students to job estimations, scheduling, and management of a construction jobsite.

Program Student Learning Outcomes

- Develop and describe the chronological phases of building construction and scope of construction management.

Program Requirements

Code Number	Course Title	Hours
REQUIRED COURSES		
CONST 615	Blueprint Reading for Construction Trade	54
CONST 670	Cost Estimating	54
CONST 675	Contracting Laws and Management	54
COSA 601	Computer Information Competency	36
Total Hours		**198**

CRYPTOCURRENCY FUNDAMENTALS - CERTIFICATE OF ACCOMPLISHMENT

Plan Code: 4133

Students will learn the concepts and technologies behind cryptocurrency and blockchain and the software applications and platforms commonly used to research, analyze, invest, and manage Cryptocurrency assets.

Program Student Learning Outcomes

- Explain cryptocurrencies and how they function on a technical and financial level.

Program Requirements

Code Number	Course Title	Units
REQUIRED COURSES		
COSA 240	Introduction to Cryptocurrency	1
COSA 241	Cryptocurrency Financial Software	1
Total Units		**2**

CRYPTOCURRENCY FUNDAMENTALS - CERTIFICATE OF COMPLETION

Plan Code: 6000

Students will learn the concepts and technologies behind cryptocurrency and blockchain and the software applications and platforms commonly used to research, analyze, invest, and manage Cryptocurrency assets.

Program Student Learning Outcomes

- Explain cryptocurrencies and how they function on a technical and financial level.

Program Requirements

Code Number	Course Title	Hours
REQUIRED COURSES		
COSA 640	Introduction to Cryptocurrency	18
COSA 641	Cryptocurrency Financial Software	18
Total Hours		**36**

HOME REMODELING - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3949

This program will provide essential skills that will enable students to gain entry-level employment in the field of Home Remodeling and Repair in the construction industry. By completing the certificate requirements, students acquire proficiency in basic construction techniques required to provide solutions for a variety of job site situations. The program provides career opportunities in various aspects of construction, including carpentry, plumbing, electrical, HVAC, concrete masonry and other construction crafts.

Program Student Learning Outcomes

- Interpret residential building codes.
- Utilize safe techniques when using hand and power tools.

Program Requirements

Code Number	Course Title	Units
REQUIRED COURSES		
CONST 15	Blueprint Reading for Construction Trade	3
CONST 70	Cost Estimating	3
CONST 205	Forklift Fundamentals	0.5
CONST 250	Home Remodeling Fundamentals	2
CONST 255	Home Remodeling-Basic Carpentry	2
CONST 260	Home Remodeling-Interior Construction	2
CONST 265	Home Remodeling-Exterior Construction	2
CONST 275	Contracting Laws and Management	3
COSA 1	Computer Information Competency	1
Total Units		**18.5**

HOME REMODELING - CERTIFICATE OF COMPLETION

Plan Code: 6032

This program will certify that students have received the basic skills needed in tiling, painting, drywall as well as job readiness skills needed to be successful in this chosen field. Further, this certificate will verify that students have demonstrated skill achievements in safety, waterproofing, tiling floors, counter tops, and walls in ceramic, porcelain, marble, and granite and mortar floating, all necessary for pursuing entry-level positions within the construction field. Students will need no prerequisite skills prior to enrolling in these series of classes and they will, with completion of courses, receive certification in OSHA.

Program Student Learning Outcomes

- Demonstrate the technical and organizational employability skills required by the construction industry.
- Develop and complete a tiling project that adheres to industry standards utilizing proper tools and techniques.
- Apply, understand and evaluate the techniques, tools and materials used for cutting, hanging, taping and texturing drywall techniques.
- Develop and prepare surfaces for the application of paint to specified industry requirements.

Program Requirements

Code Number	Course Title	Hours
REQUIRED COURSES		
CONST 606	Workplace Competency Skills	18
CONST 616	Home Remodeling-Drywall	27
CONST 617	Home Remodeling-Tiling	27
CONST 618	Home Remodeling-Painting	27
Total Hours		**99**

FORKLIFT FUNDAMENTALS - CERTIFICATE OF COMPLETION

Plan Code: 6031

This program will provide basic safety and operation of the forklift, including lifting principles, load rating, stability, and operation techniques. Students will gain experience using: Class II (Narrow Aisle Electric Lift Trucks), Class III (Electric Motor Hand Truck – Pellet Jack), and Class IV (Internal Combustion Engine Truck – Counterbalance Lift Truck). Upon successful completion, students will receive a Certificate of Training and a Wallet Card. Job opportunities for Forklift Operators include: warehouse shipping and receiving, construction sites, ports and docks, retail stores and all other business's that require material handling.

Program Student Learning Outcomes

- Demonstrate the ability to operate a forklift so that the overall operation of this equipment is within the Occupational Safety Health Administration (OSHA) standards.
- Identify and develop tools needed to obtain a job in construction (resume, cover letter, application).

Program Requirements

Code Number	Course Title	Hours
REQUIRED COURSES		
CONST 605	Forklift Fundamentals	18
CONST 606	Workplace Competency Skills	18
Total Hours		**36**