

CBTE 165	Webpage Creation with Dreamweaver	3
CBTE 180	Microsoft Office	3
CBTE 210	Computers in Business	3
BUSE 101	Business Mathematics	3
BUSE 119	Business Communications	3

Total Units = 22

For graduation requirements see **Associate Degree Requirements** on page 88.

Electives as needed to meet minimum of 60 units required for the degree.

Recommended Electives: Computer Business Technology 270; Business 150.

Computer and Information Sciences

Award Type	Units
Certificate of Performance: Computer Programming	12
Certificate of Achievement: Computer and Information Sciences	31
Associate of Science Degree: Computer and Information Sciences	31*

* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

Program Description

The focus of the Computer and Information Sciences program is on the function and use of the computer. The program includes general study of computer languages as well as utilization and application of computer software.

Program Learning Outcomes

Students who complete the Computer and Information Sciences program will be able to:

- Successfully follow a specification.
- Successfully create electronic documents.

Career Options

The Computer and Information Sciences program prepares students with a basic understanding of programming principles, procedures and

specifications. Students completing the program curriculum may also be qualified for entry-level employment in the area of computer support, application training and software testing.

Faculty	Office	Telephone/Email
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Certificate of Performance: Computer Programming*

This Certificate of Performance in computer programming requires completion of the courses listed below and is meant to prepare students who are planning on preparing for entry-level positions in computer programming and/or information technology. The Certificate of Performance also offers students the opportunity to learn or enhance computer programming skills.

Courses:	Units
CISC 186 Visual Basic Programming	4
CISC 190 Java Programming	4
CISC 192 C/C++ Programming	4
Total Units = 12	

*A Certificate of Performance is a departmental award that does not appear on the student's transcript. All courses must be completed within the San Diego Community College District.

Note: This program is not eligible for federal financial aid in accordance with Federal regulations.

Certificate of Achievement: Computer and Information Sciences

Courses Required for the Major:	Units
ACCT 116A Financial Accounting	4
ACCT 116B Managerial Accounting	4
BUSE 119 Business Communications	3
BUSE 140 Business Law & the Legal Environment	3
CISC 181 Principles of Information Systems	4
CISC 186 Visual Basic Programming	4
ECON 120 Principles of Macroeconomics	3
MATH 119 Elementary Statistics	3
CISC Elective(s)*	3
Total Units = 31	

*Choose a minimum of 3 units in CISC. Students should consult with their counselor prior to choosing electives to ensure electives meet program and/or transfer goals.

Associate of Science Degree: Computer and Information Sciences

Courses Required for the Major:		Units
ACCT 116A	Financial Accounting	4
ACCT 116B	Managerial Accounting	4
BUSE 119	Business Communications	3
BUSE 140	Business Law & the Legal Environment	3
CISC 181	Principles of Information Systems	4
CISC 186	Visual Basic Programming	4
ECON 120	Principles of Macroeconomics	3
MATH 119	Elementary Statistics	3
CISC Elective(s)*		3

Total Units = 31

*Choose a minimum of 3 units in CISC. Students should consult with their counselor prior to choosing electives to ensure electives meet program and/or transfer goals.

For graduation requirements, see the **Requirements for the Associate Degree** on page 88.

Electives as needed to meet minimum of 60 units required for the degree.

Diesel Technology

Award Type	Units
Certificate of Performance:	
Diesel Fuel Injection Systems	7
Heavy Equipment Powertrains	13
Heavy Equipment Undercarriage Systems	7
Mobile Hydraulics Technician	7
Steering, Suspension, and Drivelines	7
Truck & Equipment Electrical Systems	8
Truck Air Brake Systems	7
Truck Drive Axles	7
Truck Transmissions and Clutches	13
Certificate of Achievement:	
Engine Overhaul, Caterpillar	18
Engine Overhaul, Cummins	18
Engine Overhaul, Detroit Diesel	18
Engine Repair, Caterpillar	19
Engine Repair, Cummins	19
Engine Repair, Detroit Diesel	19
Heavy Duty Diesel and Advanced Transportation Technology (HDDAT) (Evening Program)	32
Heavy Duty Transportation Technology (HDDT) —(Day Program)	48
Heavy Equipment Technology (HET)—(Day Program)	48
San Diego City Civil Service Equipment Mechanic Apprenticeship	27
San Diego Transit General Mechanic Apprenticeship	24
Associate of Science Degree:	
Heavy Duty Transportation Technology (HDDT)—(Day Program)	48*
Heavy Equipment Technology (HET)—(Day Program)	48*
Occupational/Technical Studies (see page 220)	18*
San Diego City Civil Service Equipment Mechanic Apprenticeship	27*
San Diego Transit General Mechanic Apprenticeship	24*

* and courses to meet graduation requirements, general education and electives as needed to meet the minimum of 60 units required for the degree.

Program Description

The Diesel Technology program provides the student with an opportunity to master the