

Computer Science, AS-T



CATALOG 2022-23

GE Pattern: [IGETC](#)
Total Units: 60 Units
Program Code: [CIS.AS](#)



Category Key

(a)	Articulated Credit	A course taught at the high school that teaches the same content as the community college allowing the high school student to receive college credit.	GE	General Education	A course that fulfills a specific general education requirement for this degree, which can be replaced with another course that meets the same requirements.
Elec	Elective	A degree - applicable course that is part of a degree road map to ensure that there is a total of at least 60 units, which is a requirement for an AS degree.	RE	Restricted Electives	A course selected from a list of elective courses specified for this degree in the course list in the catalog, which can be replaced with another course from the same list.
Req	Required Core	A course that is required for this degree			

Year 1

Semester 1

16 Units

Category	Course	Title	GE Area	Unit
Req	CIS 201	Programming Concepts and Methods I		4
Rec	CIS 190	Intro to the Unix Operating System		4
Req	MATH 226	Analytic Geometry and Calculus I	2	4
GE	ENGL 101.0	English Composition and Reading	1A	4

*Placement into MATH 226 or completion of MATH 104 and MATH 105 is required to begin this program. The math department highly recommends the MATH 86 support co-requisite course.



Semester 2

17 Units

Category	Course	Title	GE Area	Unit
Req	CIS 202	Programming Concepts and Methods II		4
Req	MATH 227	Analytic Geometry and Calculus II		4
GE	Any	Recommended: POLS 102	4	3
GE	Any	Either: ENGL 104 or PHIL/RLST 207	1B	3
GE	Any	Recommended: HIST 117, 118, or 155	3B	3

Year 2

Semester 1

16 Units

Category	Course	Title	GE Area	Unit
Req	CIS 208	Computer Architecture and Organization		3
Req	PHYS 201	General Physics I	5A&5C	4
GE	Any	Recommended: ECON 101	4	3
GE	Any	Either: CMST 106 or 108 or 109	1C	3
GE	Any		3A or 3B	3



Semester 2

16 Units

	Course	Title	GE Area	Unit
Req	CIS 264	Discrete Structures		3
Rec	PHYS 202	General Physics II		4
GE	Any	Recommended: ECON 102	4	3
GE	Any		3A	3
GE	Any		5B	3



+580
5-year Job Demand
Increase in
MDCP Region

**Average Hourly
Wage**

\$42.06
MDCP Region

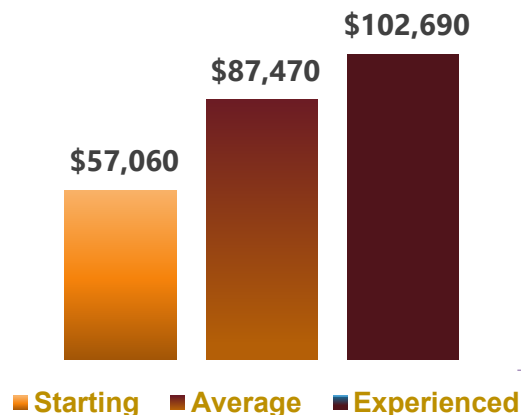
\$40.51
SB County

\$50.46
California

**MDCP
Regional Labor Market
Snapshot
JOBS in
Computer Science
and Technology
Occupations**

Salary Guide

AVERAGE BY EXPERIENCE



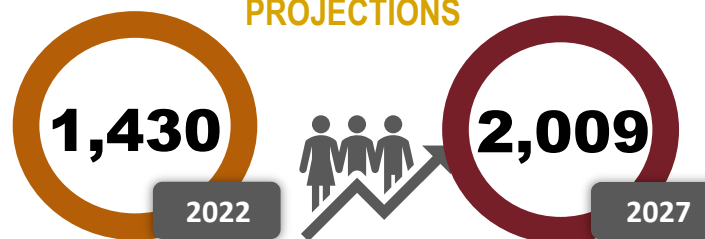
Occupation

Computer Repair Technicians (HS)
^Computer User Support Specialists (HS)
Computer Network Support Specialists (A)
^Computer Systems Analysts (B)
Information Security Analysts (B)
Network & Computer Systems Administrators (B)
^Database Administrators (B)
Computer Programmers (B)
Computer Hardware Engineers (B)
Software and Web Developers/Programmers (B)

Average hourly wage based on listed occupations
(HS = High School Diploma; PSC= Postsecondary Certificate; A = Associates Degree;
B = Bachelor's Degree; M = Master's Degree, D = Professional or Doctorate Degree)

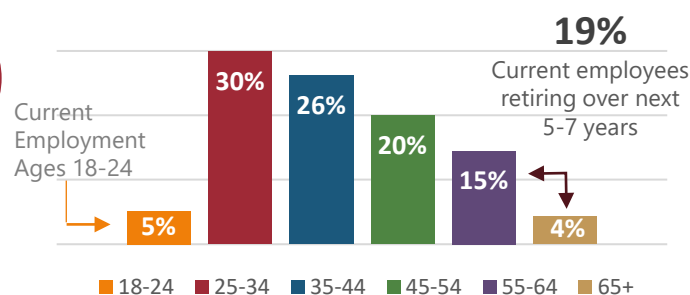
HD Average wages based on listed occupations
^High Demand Occupation

EMPLOYMENT PROJECTIONS



5-year demand includes new jobs, transfers, and retirements

Current Age Breakdown



19%
Current employees
retiring over next
5-7 years

AVERAGE WAGE INFORMATION PER JOBS IN REGION

Average Hourly Wage

Occupation	HD	SBC	California	HD Average Salary
Computer Repair Technicians (HS)	\$22.32	\$22.07	\$23.23	\$46,400
^Computer User Support Specialists (HS)	\$29.49	\$28.70	\$34.51	\$61,300
Computer Network Support Specialists (A)	\$32.36	\$31.54	\$35.85	\$67,300
^Computer Systems Analysts (B)	\$48.88	\$45.57	\$57.43	\$101,700
Information Security Analysts (B)	\$50.25	\$46.66	\$65.00	\$104,500
Network & Computer Systems Administrators (B)	\$44.23	\$43.37	\$50.85	\$92,000
^Database Administrators (B)	\$47.90	\$47.20	\$55.66	\$99,600
Computer Programmers (B)	\$45.42	\$42.52	\$55.16	\$94,500
Computer Hardware Engineers (B)	\$62.34	\$62.14	\$81.72	\$129,700
Software and Web Developers/Programmers (B)	\$37.37	\$35.33	\$45.22	\$77,700



CONTINUING EDUCATION AND TRAINING

Program

AS Computer Science AS-T
BS Computer Engineering
BA Computer Systems
BS Computer Science/Business Apps
MS Computer Engineering
MS Electrical & Computer Engineering

College

Victor Valley CC
Cal State, San Bernardino
Cal State, San Bernardino
UC Riverside
UC Riverside
UC Los Angeles

For additional information visit

<https://catalog.vvc.edu/degrees-certificates/computer-information-science/#CIST-IGETC-AS>

LOCAL EMPLOYERS

Employer

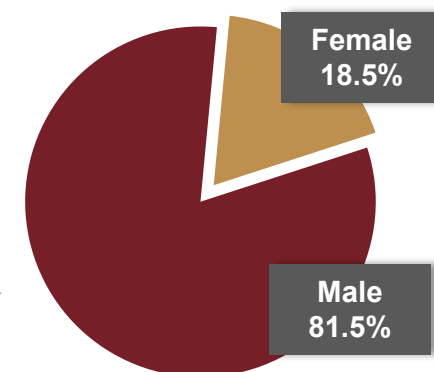
A Plus Computers
AVC Tech Services
Best Buy Geek Squad
Hi Desert PC Crew
Leidos
Revature
Topnotch Networking

Website

www.applevalleycomputer.com
www.avctechservice.com
<https://stores.bestbuy.com/ca.html>
www.hdpccrew.com
<https://www.leidos.com>
<https://revature.com/job-openings/>
www.tnnsupport.com



Current Gender Breakdown



Employment and wage data Source: CHMURA JobsEQ 2022 Q2
MDCP Region (HD) - San Bernardino County (SBC), and California