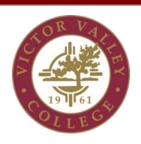
Programming I Certificate of Achievement

RAMPath Counselor Lyman Insley (760) 245-4271 x2208 Lyman.Insley@vvc.edu



CATALOG 2022-23

GE Pattern: None Total Units: 18 Units Program Code: PROG1.CERT



Additional Certificate/Degree Programs

Computer Information Systems AS * Computer Science, AS-T * Network Specialist

- Electronics and Computer Technology AS * Electronics Engineering
 - Technology AS * Computer Aided Drafting & Design *
- MySQL Database Developer * UNIX Administrator * Web Authoring

Year 1

Year 2

Semester 1 4 Units

Category	Course	Title	GE Area	Unit
Req	CIS 201	Programming Concepts and Methods I		4
*MATH 105 College Algebra, is recommended for the computer programming field.				

Semester	1		7	7 Units
Category Course		Title	GE Area	Unit
Req	CIS 104	Object Oriented Analysis and Design		3
Req	CIS 221	Programming in Python Other options: CIS 205 JavaScript or CIS 206 Programming in Java		4

Semester 2 7				
Category	Course	Title	GE Area	Unit
Req	CIS 202	Programming Concepts and Methods II		4
Req	CIS 264	Discrete Structures		3

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.
Rea	Required	A course that is required for this			

Must Receive a grade of C or better in all courses to receive a certificate



+580
5-year Job Demand
Increase in
MDCP Region

Average Hourly Wage

MDCP Regional Labor Market Snapshot

JOBS in
Computer Science
and Technology
Occupations

Salary Guide

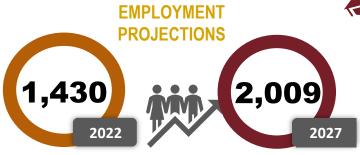
\$40.51

SB County

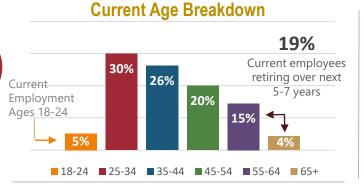
\$42.06

MDCP Region

\$50.46 California



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



AVERAGE WAGE INFORMATION PER JOBS IN REGION

\$102,690 \$87,470 \$57,060 \$Starting Average Experienced

HD Average Hourly Wage **Average** Occupation HD SBC California 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 \$50.25 \$65.00 \$104,500 Information Security Analysts (B) \$46.66 Network & Computer Systems Administrators (B) \$44.23 \$43.37 \$50.85 \$92,000 \$47.20 \$99,600 **^Database Administrators (B)** \$47.90 \$55.66 Computer Programmers (B) \$45.42 \$42.52 \$55.16 \$94.500 \$62.34 \$129,700 \$62.14 Computer Hardware Engineers (B) \$81.72 \$35.33 \$77,700 \$37.37 \$45.22 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

CONTINUING EDUCATION AND TRAINING

^	ar	ar	n	
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AS Computer Science AS-T BS Computer Engineering BA Computer Systems

BS Computer Science/Business Apps
MS Computer Engineering

MS Electrical & Computer Engineering UC Los Angeles

College

Victor Valley CC Cal State, San Bernardino

Cal State, San Bernardino

UC Riverside
UC Riverside

For additional information visit

https://catalog.vvc.edu/degrees-certificates/computerinformation-science/#PROG1-CERT

LOCAL EMPLOYERS

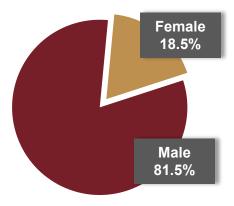
Employer

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





HD Average wages based on listed occupations

^High Demand Occupation