

Program: Computer Studies (CIS, CNT, CS)

Division: STEM

Writer(s): Jeff Weichert

SLO/SAO Point-Person: Jeff Weichert

1. Please describe your program's most important **achievements** in year 24-25.

- Began the development of new credit and non-credit CTE workforce courses in artificial intelligence-related and rapid application development areas for a new generative AI entrepreneur certificate.
- Expanded Google badge and certificate options available to students.
- Purchased three VR goggles to enhance student learning opportunities.
- Organized summer camps for cybersecurity, robotics, and drones.
- Collaborated with ISC2 East Bay to support annual conference activities on campus including student volunteers.
- Provided faculty advisors to multiple student clubs, including computer science, cybersecurity, girls who code, robotics, machine learning, data science, video game clubs.
- Partnered with national labs to provide student internship opportunities.
- Represented programs at open house, preview night, and local high school events.
- Provided Skills Build platform and training to students to earn industry-recognized certificates by IBM.
- General curriculum updates.

2. Please describe your most important **challenges** in year 24-25.

- Having only one full-time faculty position in computer science area.
- The need for additional FTEF as our enrollment continues to increase.
- The need for shelving units in our CNT labs.
- Students do not have access to full version Microsoft 365 software.
- Incorporating more AI-powered chatbot tools into the curriculum and classrooms.

3. What SLO(s) or SAO(s) if any did your program assess or discuss since your last program review? Please describe any findings and planned actions.

- Developed assessment templates for each degree and certificate in computer studies area as directed by SLO committee.
- Assessed SLOs as outlined on eLumen.
- Updated CNT 8003 SLOs.

4. What are your upcoming plans? Please note any ways that these support student achievement and equity.

- Continue to incorporate AI into our disciplines.
- Continue to build industry partnerships.
- Continue to carry out equitable grading strategies which align with our disciplines.
- Several CS FT faculty are attending upcoming two-day AI workshop at SJSU.
- Continue to optimize our class scheduling and modalities so that students can build a class schedule that works well for them, to increase student success rates, and to increase program completion rates.

CTE REPORT (CTE DISCIPLINES ONLY)

1. Does this program continue to meet a labor market demand?

Yes.

The area surveyed for this report includes Alameda, Contra Costa, San Joaquin, and San Francisco counties.

There are 34,325 workers employed in jobs related to Information Technology (Computer Studies), as compared to a national average of 7,204.

The largest occupations are those related to computer systems design, infrastructure, data processing, and software publishing.

The average annual salary for these workers is \$148,947, compared to a national average of \$110,568.

There are currently 219 monthly job postings for these occupations.

The top technical skills that employers are seeking include SAP applications, data analysis, help desk support, computer and network automation, scalability, and hardware.

2. Are there similar programs in the area? If yes, list the programs and their institutions.

Yes.

Within the area surveyed, other institutions which offer programs similar to ours in whole or in part, encompassing computer science, networking and information systems, include:

Diablo Valley College
Ohlone College
Chabot College
Laney College
Merritt College
College of Alameda
City College of San Francisco
San Joaquin Delta College.

3. Has the program demonstrated effectiveness as measured by the employment and completion success of its students? Provide employment and completion success based on Perkins Core Indicator Report.

Yes and No.

A review of Perkin's V Core Indicators includes the following:

Core 4 (employment rate achieved):

Computer Information Systems	85.71%	(12.46% above state-negotiated rate)
Computer Infrastructure and Support	76.92%	(3.70% above state-negotiated rate)
Information Technology	73.25%	(3.43% below state-negotiated rate)
Computer Programming	No data avail. Fewer than 6 concentrators.	

Core 2 (earned postsecondary credential):

Computer Information Systems	100.0%	(20.00% above state-negotiated rate)
* Computer Infrastructure and Support	18.75%	(53.00% below state-negotiated rate)
* Information Technology	16.67%	(55.33% below state-negotiated rate)
Computer Programming	83.33%	(3.33% above state-negotiated rate)

* Indicates a need for improvement

4. Does the program provide opportunities for review and comments by local private industries? Attach most recent Advisory Committee meeting minutes.

Yes.

Most recent Advisory Committee minutes attached.