



Lake Tahoe Community College
Computer & Information Systems Advisory Committee Meeting Agenda
 Wednesday February 9, 2022 3:00-4:15pm



- Welcome and Introductions
- Computer Programming Annual Program Review (2020-2021)
 - The majority of students are White/Non-Hispanic males, under 25 years of age, with the highest course success rate of 86.4%.
 - The overall course success rate for 26 students* is 84.6%.
 - FTES has decreased significantly over the last three years.
 - There were two Employable Skills Certificates awarded.

FULL-TIME EQUIVALENT STUDENTS (FTES)	DEMOGRAPHICS	COURSE SUCCESS
<ul style="list-style-type: none"> ▪ Total F2F Sections: 0 ▪ Total DE Sections: 3 ▪ Total Sections: 3 ▪ Total FTES: 2.81 ▪ Total Duplicated Headcount: 31 ▪ 3-YR FTES Change: -16.8% ▪ 1-YR FTES Change: -45.2% 	<ul style="list-style-type: none"> ▪ Male: 86.4% ▪ Female: 13.6% ▪ Unknown: 0% ▪ African American: 0% ▪ Asian: 13.6% ▪ Hispanic: 31.8% ▪ Native American/Alaskan Native: 0% ▪ Pacific Islander: 0% ▪ White/Non-Hispanic: 50% ▪ Two or more races: 0% ▪ Other: 0% ▪ Unknown: 4.5% ▪ Under 25: 86.4% ▪ Age 25-49: 13.6% ▪ 50+: 0% ▪ Median Age: 21 ▪ Youngest: 16 ▪ Oldest: 43 	<ul style="list-style-type: none"> ▪ Male: 86.4% ▪ Female: 75% ▪ Unknown: 0.0% ▪ African American: 0% ▪ Asian: 75% ▪ Hispanic: 66.7% ▪ Native American/Alaskan Native: 0% ▪ Pacific Islander: 0% ▪ White/Non-Hispanic: 92.3% ▪ Two or more races: 0% ▪ Other: 0% ▪ Unknown: 100% ▪ Under 25: 87.5% ▪ Age 25-49: 50% ▪ 50+: 0% ▪ Distance Ed: (26 students*) 84.6% ▪ F2F: N/A
AWARDS	<ul style="list-style-type: none"> ▪ Employable Skills Certificate in Computer Programming: 2 	

*Note: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/no record.

- Other Page – IT Technician Annual Program Review (2020-2021)



Lake Tahoe Community College
Computer & Information Systems Advisory Committee Meeting Agenda
 Wednesday February 9, 2022 3:00-4:15pm



- Welcome and Introductions
- Cybersecurity/IT Technician Annual Program Review (2020-2021)
 - The majority of students are White/Non-Hispanic males, between the ages of 25-49, with the highest course success rate of 82.6%.
 - The overall course success rate for 58 students* is 81%.
 - FTES has improved dramatically over the last two years.
 - There were no degrees and one certificate awarded.

FULL-TIME EQUIVALENT STUDENTS (FTES)	DEMOGRAPHICS	COURSE SUCCESS
<ul style="list-style-type: none"> ▪ Total F2F Sections: 0 ▪ Total Distance Ed Sections: 5 ▪ Total Sections: 5 ▪ Total FTES: 8.54 ▪ Total Duplicated Headcount: 66 ▪ 2-YR FTES Change: 306.3% ▪ 1-YR FTES Change: 357.1% 	<ul style="list-style-type: none"> ▪ Male: 68.8% ▪ Female: 31.3% ▪ Unknown: 0% ▪ African American: 0% ▪ Asian: 0% ▪ Hispanic: 34.4% ▪ Native American/Alaskan Native: 0% ▪ Pacific Islander: 0% ▪ White/Non-Hispanic: 59.4% ▪ Two or more races: 6.3% ▪ Other: 0% ▪ Unknown: 0% ▪ Under 25: 28.1% ▪ Age 25-49: 65.6% ▪ 50+: 6.3% ▪ Median Age: 31 ▪ Youngest: 17 ▪ Oldest: 61 	<ul style="list-style-type: none"> ▪ Male: 82.6% ▪ Female: 75% ▪ Unknown: 0.0% ▪ African American: 0% ▪ Asian: 0% ▪ Hispanic: 78.9% ▪ Native American/Alaskan Native: 0% ▪ Pacific Islander: 0% ▪ White/Non-Hispanic: 83.3% ▪ Two or more races: 66.7% ▪ Other: 0% ▪ Unknown: 0% ▪ Under 25: 73.3% ▪ Age 25-49: 84.6% ▪ 50+: 75% ▪ Distance Ed: (58 students*) 81% ▪ F2F: N/A
AWARDS	<ul style="list-style-type: none"> ▪ AS Degree in Cybersecurity/IT Technician: 0 ▪ Certificate of Achievement in Cybersecurity/IT Technician: 1 	

*Note: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/no record.

- Other page - Computer Programming Annual Program Review (2020-2021)
- General Discussion/Feedback from Industry Partners
- Perkins



Computer & Information Systems Advisory Committee

Meeting Minutes

February 9, 2022

Welcome and Introductions

The meeting called to order at 3:03 p.m.

Present: Balint, Elizabeth (Director of Institutional Effectiveness, LTCC), Bergner, Nicole (Counselor, LTCC), David, Kerry (Trustee, LTCC), Deeds, Brad (Dean of Instruction & Workforce Development), Goligoski, Amber (Program Coordinator Work-Based Learning, LTCC), Skelly, Chris (IT Manager, STUPD), Smith, Josh (Director of Information Technology, LTCC)

Annual Program Review (2020-2021)

Dean Deeds updated the committee on the Computer & Information Systems (CIS) program. There are two tracks to CIS, which serves different student needs. The Computer Programming track is a three-course series currently offered every year. The majority of students are White/Non-Hispanic males, under the age of 25, with a course success rate of 86.4%. Females are passing courses at 75%. Hispanic/Latino/a/x students make up 31.8% and Asian students make up 13.6%, which is higher than typical District averages. The duplicated headcount is at 31 students. Full-Time Equivalent Students (FTES) is 2.81 and has decreased by 16% over the last three years. The cohort for this program is very small and is taught by full-time math/computer faculty member, Steve Richardson. Demand for this program is declining and the decision was made to offer the sequence every other year. This tends to be a male-dominated field and the District will market to female students, particularly in the feeder high schools, in the future. Two employable skills certificates were awarded.

The Information Technology (IT) Technician - Cybersecurity Certificate and Degree program consists of six required courses that are offered two per quarter, every year, which allows students to finish the Certificate of Achievement in nine months. The majority of students are White/Non-Hispanic males, between the ages of 25-49, with a course success rate of 82.6%. Females are passing courses at 75%. Hispanic/Latino/a/x students are represented at 34.4% of enrollments. The duplicated headcount is at 66 students. Full-Time Equivalent Students (FTES) is 8.54 and has increased dramatically, up 306.3% over the last two years(!). This type of increase shows significant demand for this program. The median age for IT Technician – Cybersecurity students is 31 years old, versus 21 years old for Computer Programming students. This indicates older students are starting a new career path and are looking for remote work or jobs in the local area. One certificate of achievement was awarded, with an expected increase to that once auto-awarding is implemented at the college. In the meantime, students and instructors have again been sent instructions on how to apply this year for their certificate and/or degree.

General Discussion

South Tahoe Public Utilities District (STPUD) has tried hiring through a temporary agency to fill their need for employees. They have some entry-level IT Technician openings and the district will pay for professional development trainings and certifications. Students in the program would be good candidates.

COMP TIA/IT certification packages include the training and test voucher can cost up to \$350. Some certificates have expiration dates. Offering some remediation courses to renew those expired certifications would be beneficial. Especially if the costs of the test vouchers were covered in the course fees. Student Success Grants might be something to consider for funding the vouchers. The closest testing sites are in Reno and Sacramento and students would need a way to get to the testing centers or be provided a testing facility on campus. Another option is possibly using Hispanic Service Institution (HSI) funding as part of the Science, Technology, Engineering, and Math (STEM) path.

Perkins

Perkins funding helps the Career & Technical Education department provide a Quarterly Textbook Lending Program, which provides textbooks for eligible students who are pursuing a CTE degree or certificate.

Adjournment

The meeting adjourned at 3:49 p.m.

Respectively submitted,

Melissa Liggett Career & Technical Education Technician

ANNUAL PROGRAM REVIEW DATA: 2016-17 to 2020-21

Computer Programming Employable Skills Cert

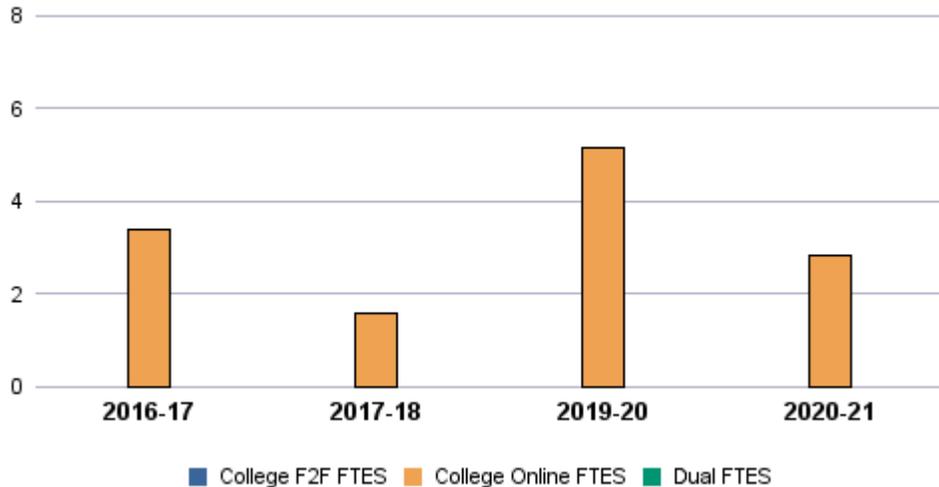


COMPUTER PROGRAMMING EMPLOYABLE SKILLS CERT SUMMARY

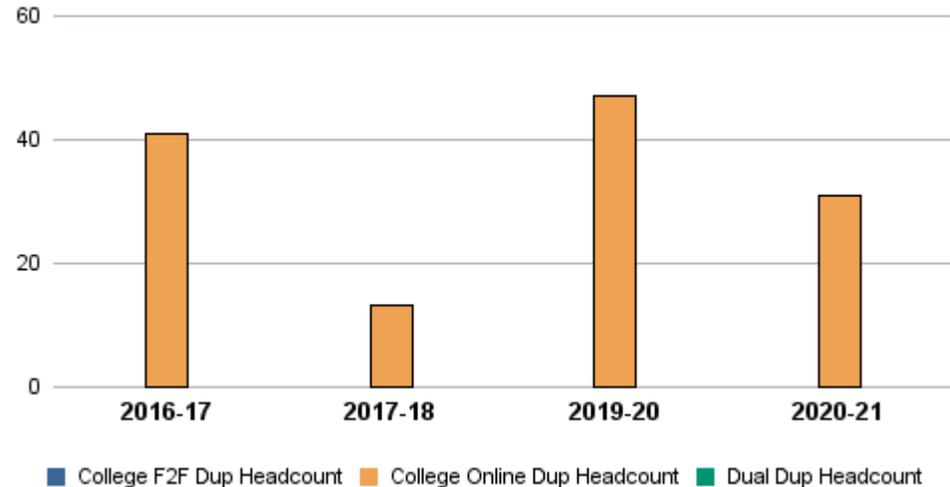
This report contains data from Academic Year (AY) 2016 to 2020. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below. The following categories are excluded: CAL FIRE, Culinary Jail, Fire In-Service, IEC, ISP, ISP Work Experience, ISSI, Municipal Fire, Noncredit, Noncredit CDCP, South Bay JPA, and Work Experience.

	Total Sections	College F2F Sections	College Online Sections	Dual Sections	Total FTES	College F2F FTES	College Online FTES	Dual FTES	Total Duplicated Headcount	College F2F Duplicated Headcount	College Online Duplicated Headcount	Dual Duplicated Headcount
2016-17	2	0	2	0	3.38	0.00	3.38	0.00	41	0	41	
2017-18	1	0	1	0	1.59	0.00	1.59	0.00	13	0	13	
2019-20	3	0	3	0	5.13	0.00	5.13	0.00	47	0	47	
2020-21	3	0	3	0	2.81	0.00	2.81	0.00	31	0	31	
3-Yr Chg	50.0%	---	50.0%	---	-16.8%	---	-16.8%	---	-24.4%	---	-24.4%	---
1-Yr Chg	0.0%	---	0.0%	---	-45.2%	---	-45.2%	---	-34.0%	---	-34.0%	---

RESIDENT FTES



DUPLICATED HEADCOUNT



2020-21 ANNUAL PROGRAM REVIEW

Computer Programming Employable Skills Cert

**Demographics:
College F2F and
College Online**

	2016-17		2017-18		2019-20		2020-21	
	N	%	N	%	N	%	N	%
Male	21	65.6%	7	53.8%	24	80.0%	19	86.4%
Female	11	34.4%	6	46.2%	6	20.0%	3	13.6%

	2016-17		2017-18		2019-20		2020-21	
	N	%	N	%	N	%	N	%
African American	2	6.3%	1	7.7%	1	3.3%	0	0.0%
Asian	0	0.0%	1	7.7%	6	20.0%	3	13.6%
Hispanic	11	34.4%	2	15.4%	7	23.3%	7	31.8%
Native Amer/Alaska Native	0	0.0%	0	0.0%	1	3.3%	0	0.0%
Pacific Islander	0	0.0%	1	7.7%	0	0.0%	0	0.0%
White Non-Hispanic	18	56.3%	7	53.8%	11	36.7%	11	50.0%
Two or more races	0	0.0%	1	7.7%	2	6.7%	0	0.0%
Unknown	1	3.1%	0	0.0%	2	6.7%	1	4.5%

	2016-17		2017-18		2019-20		2020-21	
	N	%	N	%	N	%	N	%
Age < 25	20	62.5%	7	53.8%	22	73.3%	19	86.4%
Age 25 - 49	11	34.4%	6	46.2%	7	23.3%	3	13.6%
Age 50 +	1	3.1%	0	0.0%	1	3.3%	0	0.0%

	2016-17	2017-18	2019-20	2020-21
Median Age	23	23	21	21
Youngest	15	14	16	16
Oldest	54	37	61	43

2020-21 ANNUAL PROGRAM REVIEW

Computer Programming Employable Skills Cert

Demographics:
Dual

	N	%
	0	0.0%

	N	%
	0	0.0%

Median Age	0
Youngest	
Oldest	

2020-21 ANNUAL PROGRAM REVIEW

Computer Programming Employable Skills Cert

**Course Success:
College F2F and
College Online**

	2016-17		2017-18		2019-20		2020-21	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Male	25	80.0%	7	85.7%	31	90.3%	22	86.4%
Female	10	60.0%	3	100.0%	6	50.0%	4	75.0%

	2016-17		2017-18		2019-20		2020-21	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
African American	2	50.0%	0	0.0%	1	0.0%	0	0.0%
Asian	0	0.0%	1	100.0%	3	66.7%	4	75.0%
Hispanic	11	72.7%	0	0.0%	6	83.3%	6	66.7%
Native Amer/Alaska Native	0	0.0%	0	0.0%	1	100.0%	0	0.0%
Pacific Islander	0	0.0%	1	100.0%	0	0.0%	0	0.0%
White Non-Hispanic	20	75.0%	7	85.7%	23	95.7%	13	92.3%
Two or more races	0	0.0%	1	100.0%	3	33.3%	0	0.0%
Unknown	2	100.0%	0	0.0%	0	0.0%	3	100.0%

	2016-17		2017-18		2019-20		2020-21	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Age < 25	26	73.1%	6	83.3%	25	84.0%	24	87.5%
Age 25 - 49	9	77.8%	4	100.0%	9	77.8%	2	50.0%
Age 50 +	0	0.0%	0	0.0%	3	100.0%	0	0.0%

	2016-17		2017-18		2019-20		2020-21	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Online Education	35	74.3%	10	90.0%	37	83.8%	26	84.6%

NOTE: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/ no record.

2020-21 ANNUAL PROGRAM REVIEW

Computer Programming Employable Skills Cert

Course Success:

Dual

	Enrollment	Success
	0	0.0%

	Enrollment	Success
	0	0.0%

NOTE: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/ no record.

2020-21 ANNUAL PROGRAM REVIEW

Computer Programming Employable Skills Cert

2020-21 COURSE STATISTICS

COMPUTER PROGRAMMING EMPLOYABLE SKILLS CERT PRODUCTIVITY* (2020-21):	165.33
% FULL TIME INSTRUCTORS** (2020-21):	100%
% ADJUNCT INSTRUCTORS** (2020-21):	0%

COLLEGE F2F	Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTES	WSCH	FTEF	Productivity
		---					0.0%					---
Total		---					0.0%					

COLLEGE ONLINE	Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTES	WSCH	FTEF	Productivity
CIS-120A-01 Computer Programming I	1	0.0%	100%	0%	19.0	16.0	84.2%	93.8%	1.96	105	0.11	304.00
CIS-120B-01 Computer Programming II	1	0.0%	100%	0%	8.0	8.0	100.0%	62.5%	0.49	44	0.11	128.00
CIS-120C-01 Computer Programming III	1	0.0%	100%	0%	4.0	2.0	50.0%	100.0%	0.37	22	0.11	64.00
Total	3	0.0%	100%	0%	10.3	8.7	83.9%	84.6%	2.81	171	0.34	

DUAL	Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTES	WSCH	FTEF	Productivity
		---					0.0%					---
Total		---					0.0%					

* Excludes Summer, noncredit, work experience, internship, and cancelled sections

** Excludes summer assignments. Based on instructional workload and the percentage of workload assigned under full-time contracts versus adjunct contracts

*** Withdrawal and success statistics exclude noncredit classes.

ANNUAL PROGRAM REVIEW DATA: 2016-17 to 2020-21

IT Technician – Cybersecurity Cert of Achievement

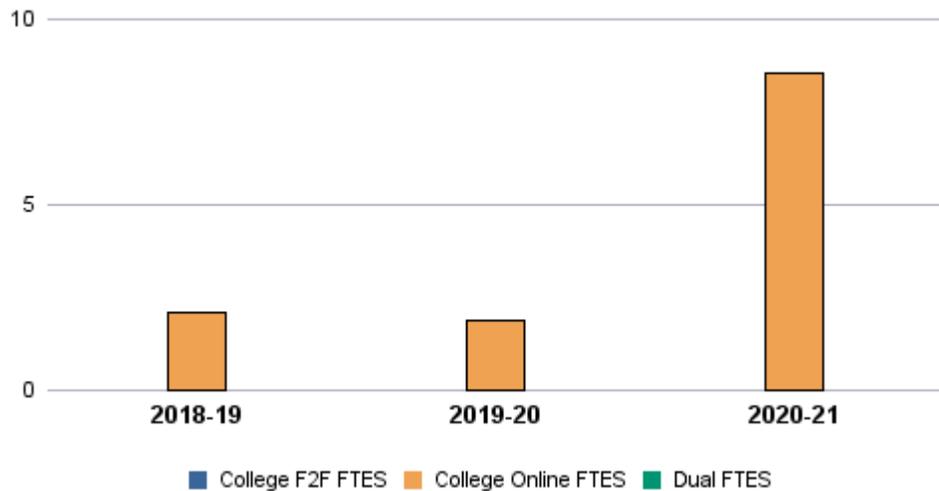


IT TECHNICIAN – CYBERSECURITY CERT OF ACHIEVEMENT SUMMARY

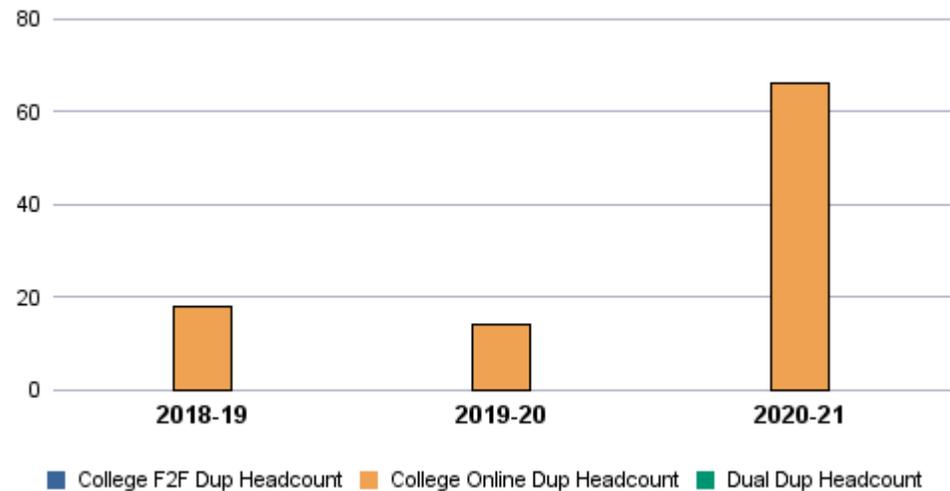
This report contains data from Academic Year (AY) 2016 to 2020. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below. The following categories are excluded: CAL FIRE, Culinary Jail, Fire In-Service, IEC, ISP, ISP Work Experience, ISSI, Municipal Fire, Noncredit, Noncredit CDCP, South Bay JPA, and Work Experience.

	Total Sections	College F2F Sections	College Online Sections	Dual Sections	Total FTES	College F2F FTES	College Online FTES	Dual FTES	Total Duplicated Headcount	College F2F Duplicated Headcount	College Online Duplicated Headcount	Dual Duplicated Headcount
2018-19	3	0	3	0	2.10	0.00	2.10	0.00	18	0	18	
2019-20	2	0	2	0	1.87	0.00	1.87	0.00	14	0	14	
2020-21	5	0	5	0	8.54	0.00	8.54	0.00	66	0	66	
2-Yr Chg	66.7%	---	66.7%	---	306.3%	---	306.3%	---	266.7%	---	266.7%	---
1-Yr Chg	150.0%	---	150.0%	---	357.1%	---	357.1%	---	371.4%	---	371.4%	---

RESIDENT FTES



DUPLICATED HEADCOUNT



2020-21 ANNUAL PROGRAM REVIEW

IT Technician – Cybersecurity Cert of Achievement

**Demographics:
College F2F and
College Online**

	2018-19		2019-20		2020-21	
	N	%	N	%	N	%
Male	10	83.3%	10	71.4%	22	68.8%
Female	2	16.7%	4	28.6%	10	31.3%

	2018-19		2019-20		2020-21	
	N	%	N	%	N	%
African American	0	0.0%	0	0.0%	0	0.0%
Asian	1	8.3%	0	0.0%	0	0.0%
Hispanic	1	8.3%	7	50.0%	11	34.4%
Pacific Islander	0	0.0%	0	0.0%	0	0.0%
White Non-Hispanic	8	66.7%	4	28.6%	19	59.4%
Two or more races	2	16.7%	2	14.3%	2	6.3%
Unknown	0	0.0%	1	7.1%	0	0.0%

	2018-19		2019-20		2020-21	
	N	%	N	%	N	%
Age < 25	7	58.3%	3	21.4%	9	28.1%
Age 25 - 49	3	25.0%	9	64.3%	21	65.6%
Age 50 +	2	16.7%	2	14.3%	2	6.3%

	2018-19		2019-20		2020-21	
	N	%	N	%	N	%
Median Age	25		33		31	
Youngest	18		16		17	
Oldest	66		68		61	

2020-21 ANNUAL PROGRAM REVIEW

IT Technician – Cybersecurity Cert of Achievement

Demographics:

Dual

	N	%
	0	0.0%

	N	%
	0	0.0%

Median Age	0
Youngest	
Oldest	

2020-21 ANNUAL PROGRAM REVIEW

IT Technician – Cybersecurity Cert of Achievement

**Course Success:
College F2F and
College Online**

	2018-19		2019-20		2020-21	
	Enrollment	Success	Enrollment	Success	Enrollment	Success
Male	15	86.7%	9	88.9%	46	82.6%
Female	3	100.0%	3	66.7%	12	75.0%

	2018-19		2019-20		2020-21	
	Enrollment	Success	Enrollment	Success	Enrollment	Success
Asian	1	100.0%	0	0.0%	0	0.0%
Hispanic	1	0.0%	5	80.0%	19	78.9%
White Non-Hispanic	12	91.7%	4	100.0%	36	83.3%
Two or more races	4	100.0%	2	50.0%	3	66.7%
Unknown	0	0.0%	1	100.0%	0	0.0%

	2018-19		2019-20		2020-21	
	Enrollment	Success	Enrollment	Success	Enrollment	Success
Age < 25	7	71.4%	3	100.0%	15	73.3%
Age 25 - 49	8	100.0%	7	71.4%	39	84.6%
Age 50 +	3	100.0%	2	100.0%	4	75.0%

	2018-19		2019-20		2020-21	
	Enrollment	Success	Enrollment	Success	Enrollment	Success
Online Education	18	88.9%	12	83.3%	58	81.0%

NOTE: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/ no record.

2020-21 ANNUAL PROGRAM REVIEW

IT Technician – Cybersecurity Cert of Achievement

Course Success:
Dual

	Enrollment	Success
	0	0.0%

	Enrollment	Success
	0	0.0%

NOTE: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/ no record.

2020-21 ANNUAL PROGRAM REVIEW

IT Technician – Cybersecurity Cert of Achievement

2020-21 COURSE STATISTICS

IT TECHNICIAN – CYBERSECURITY CERT OF ACHIEVEMENT PRODUCTIVITY* (2020-21):	211.2
% FULL TIME INSTRUCTORS** (2020-21):	20%
% ADJUNCT INSTRUCTORS** (2020-21):	80%

COLLEGE F2F	Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTES	WSCH	FTEF	Productivity
		---					0.0%					---
Total		---					0.0%					

COLLEGE ONLINE	Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTES	WSCH	FTEF	Productivity
BOT-122-01 Project Management Concepts	1	0.0%	0%	100%	9.0	9.0	100.0%	100.0%	1.20	54	0.13	144.00
CIS-104-01 Information/Communication Tech	1	0.0%	100%	0%	22.0	19.0	86.4%	73.7%	2.93	132	0.13	352.00
CIS-105-01 Network Fundamentals	1	0.0%	0%	100%	14.0	11.0	78.6%	72.7%	1.73	84	0.13	224.00
CIS-106-01 Microsoft Client Os Admin	1	100.0%					0.0%			0		---
CIS-107-01 Microsoft Server OS Admin	1	0.0%	0%	100%	9.0	7.0	77.8%	100.0%	1.07	54	0.13	144.00
CIS-108-01 Intro to Info System-COMPTIA	1	0.0%	0%	100%	12.0	12.0	100.0%	75.0%	1.60	72	0.13	192.00
Total	6	16.7%	20%	80%	13.2	11.6	87.9%	81.0%	8.54	396	0.63	

DUAL	Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTES	WSCH	FTEF	Productivity
		---					0.0%					---
Total		---					0.0%					

* Excludes Summer, noncredit, work experience, internship, and cancelled sections

** Excludes summer assignments. Based on instructional workload and the percentage of workload assigned under full-time contracts versus adjunct contracts

*** Withdrawal and success statistics exclude noncredit classes.

STUDENT ACHIEVEMENT

CIS IT TECH CYBERSECURITY (CSY)

SUMMARY

This report contains data related to student achievement, represented by the number of degrees and certificates awarded by the CIS IT Tech Cybersecurity Department. These data may include students enrolled through special programs, such as Incarcerated Students Program, South Bay JPA, and ISSI.

Year	Award Type	Title	# of Awards
2021-22	Certificate	CIS IT Tech Cybersecurity	1
2021-22 TOTAL:			1