What is an Instructional Program?

An Instructional Program or program of study is comprised of selected courses that lead to a degree or certificate. We have several types of instructional programs—the Associate of Arts (AA) degree, the Associate of Science (AS) degree, the Associate of Arts Transfer degree (AA-T), the Associate of Science Transfer degree (AS-T), and the Certificate.

All Instructional Programs are situated within a specific Guided Pathway that consists of a community of related disciplines. For example, the Biology AS-T is part of the STEM Pathway, which includes the disciplines of Science, Technology, Engineering, and Mathematics.

Program Name

Indicate the type of program here: \square AA; \boxtimes AS; \square AA-T; \square AS-T; \square Certificate

Program Name: CBIS AS

Academic Year: 2023

Name of Faculty Submitter(s): Jacob Batarseh & Marie Downing

I. Program Description

The purpose of this section is to provide the reader and/or reviewer with a brief snapshot of the program. This section should be kept short, a few paragraphs at the most, and address the following:

- A. What is the program mission and how does it support the institutional mission? The primary mission of the CBIS, AS program is to prepare all students for employment and/or upgrade current skills to assure greater responsibility in a current place of employment. This is accomplished through a variety of courses which offer a diversity of topics, and emphasizes critical thinking and laboratory skills. These activities support the mission of the college in terms of providing the educational tools needed to achieve personal goals and professional growth, utilizing advances in technology, working with the community, working with other educational institutions, and designing programs relevant to the diverse communities served.
- B. What is the program vision and how does it support the institutional vision? The vision of the CBIS, AS program is to assist students in gaining employment in the fields of Computers and Business Information. The program offers courses that will assists students to transfer to a four-year institution to achieve their baccalaureate degree in the fields of Computer Science and Business Information science. The program supports the institutional vision of the college by empowering students to achieve their personal best.

C. Please provide a short program description:

This degree is designed to prepare students for the employment market at the entry level in computer and business information technology in all sizes and types of organizations. The program provides a foundation for those students who plan to complete a four-year program in computer business information systems or related fields of study. The program also provides skills to upgrade current skills to assume greater responsibility in a current employment position. This major prepares students for Information Technology careers in networking, hardware support, cyber security, Internet and Web development, or other emerging technologies

D. How does your program align to and/or support one or more of the following BCC Strategic Priorities?

The CBIS, AS program is designed to enable equitable student success. As such, the department will continue to oversee metrics such as student retention and program completion rates and work towards ensuring all students in the program have the tools necessary to be successful. The program faculty work to inspire learning, innovation and, a culture of continuous improvements.

- Innovate to Achievable Equitable Student Success
- Ignite a Culture of Learning and Innovation
- Build Community
- Achieve Sustainable Excellence in all Operations

II. Program Effectiveness

The purpose of this section is to evaluate the program holistically by reviewing and analyzing data in the areas of Students, Courses, Program, and Faculty.

For each item below, review the data provided. As you examine the data, be on the lookout for trends and outliers while also considering how the data connects to fostering student success, helping students reach their goals, and furthering the mission of BCC.

Provide a short analysis (2-3 sentences) for each item. If data are not available (i.e., student satisfaction surveys), please indicate that on the form.

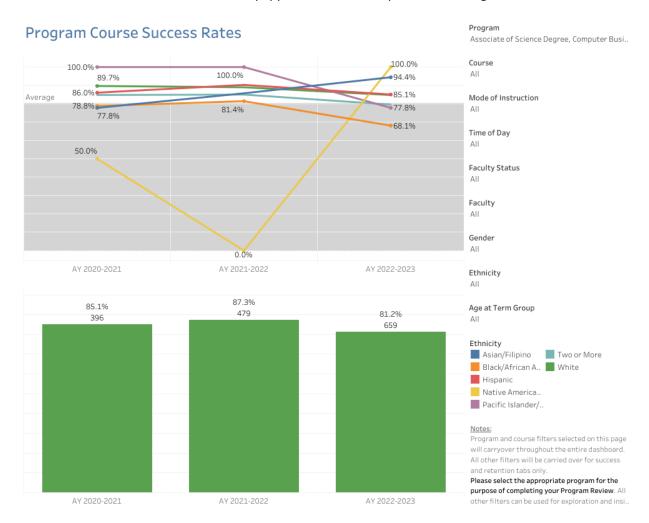
Course Data and Analysis

- A. Course Success Rate by
 - Mode of instruction
 - Scheduling
 - Faculty Status (PT vs FT)

Success rates in the program for the academic years 2020-21, 2021-2022, and 2022-2023 are above 80%. It appears that one student has skewed the results.

In this cohort, the vast majority of students were enrolled in online classes and there does not appear to be a difference in the success of the student when taught by full-time or part-time

faculty. There is however one ethnic group (Asian American) that to date has not been as successful as the other groups. The percentage is low however because of the low student enrollment in the group (4, 1, and 2 studnets for the period under review.) Even so, this may be an area where instructors can focus if equipped with this data prior to teaching a course.



B. Retention Rate by

- Mode of instruction
- Scheduling
- Faculty Status (PT vs FT)

The program has an exceptional retention rate for the academic years 2020-21, 2021-2022, and 2022-2023 with retention being above 93% with the lowest retention being for one ethnic group enrolled online. Again, this may be good information for instructors to have prior to teaching a

course.



C. Section Count by

- Mode of instruction
- Schedule
- Faculty Status (PT vs FT)

The section count shows that the majority of students in the program are enrolled in online classes. Students enrolled in morning, afternoon, and even classes are relatively the same for the reported periods. The college may consider adding more sections for the program as enrollment continues to increase.

ProgramAssociate of Science Degree, Computer Business Information Systems

Course

Section Count by Instructional Method

	AY 2020-2021	AY 2021-2022	AY 2022-2023	Grand Total
Hybrid/ITV/Web Conferencing			1	1
Online	12	17	19	48
Grand Total	12	17	20	49

Section Count by Time of Day

	AY 2020-2021	AY 2021-2022	AY 2022-2023	Grand Total
Evening			1	1
Online	12	17	19	48
Grand Total	12	17	20	49

Section Count by Faculty Status

	AY 2020-2021	AY 2021-2022	AY 2022-2023	Grand Total
Full-Time	7		8	24
Part-Time	5	8	12	25
Grand Total	12	17	20	49

D. Enrollment Count by

- Mode of instruction
- Schedule
- Faculty Status (PT vs FT)

As with the section count, this data shows that the majority of students are enolled in online courses. The number of online students increased by more than 200 in AY 2022-2023. While the number of students being taught by full-time faculty has remained the same, the number of students taught by part-time faculty has increased significantly.

Program

Associate of Science Degree, Computer Business Information Systems

Course

All

Enrollment Count by Instructional Method

	AY 2020-2021	AY 2021-2022	AY 2022-2023	Grand Total
Hybrid/ITV/Web Conferencing			11	11
Online	404	481	647	1,532
Grand Total	404	481	658	1,543

Enrollment Count by Time of Day

	AY 2020-2021	AY 2021-2022	AY 2022-2023	Grand Total
Evening			11	11
Online			647	1,532
Grand Total	404	481	658	1,543

Enrollment Count by Faculty Status

	AY 2020-2021	AY 2021-2022	AY 2022-2023	Grand Total
Full-Time	214	259	214	687
Part-Time	190	222	444	856
Grand Total	404	481	658	1,543

E. Class Size Average by

- Mode of instruction
- Schedule
- Faculty Status (PT vs FT)

The largest class sizes are consistently those being taught online. In fact, the online class size has continued to grow throughout the period under review.

Program

Associate of Science Degree, Computer Business Information Systems

Course

All

Enrollment Count by Instructional Method

	AY 2020-2021	AY 2021-2022	AY 2022-2023	Grand Total
Hybrid/ITV/Web Conferencing			11	11
Online	404	481	647	1,532
Grand Total	404	481	658	1,543

Enrollment Count by Time of Day

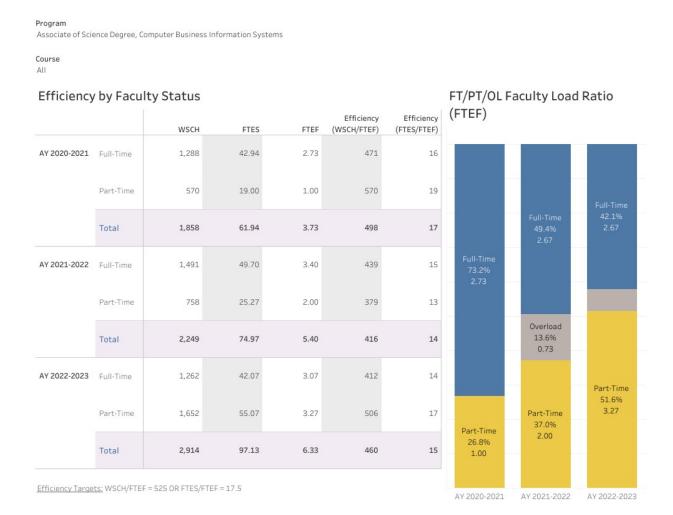
	AY 2020-2021	AY 2021-2022	AY 2022-2023	Grand Total
Evening			11	11
Online			647	1,532
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Enrollment Count by Faculty Status

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Full-Time	214	259	214	687
Part-Time	190	222	444	856
Grand Total	404	481	658	1,543

F. Efficiency: WSCH, FTES, FTEF

The program's efficiency scores of 400+ are above the Barstow overall average of 300.



Student Equity Course Data

A. What equitable practices are being performed by most or all courses within the program (ACCJC Standard 2.2, 2.6, 2.7, 2.8, 2.9)? Please review the following equitable practices and check all that apply.

\square Multiple options for	\square Audio files as video	⊠ Ensures all student races
knowledge acquisition	alternatives	and backgrounds are
☑ OER materials	☑ Provides students an	represented in the classroom and the curriculum
☑ Use of Early Alert	opportunity for feedback on instruction	

	sentation of resources ampus departments	□ Correlates learning with real-life experience	
☑ ADA compliant materials☐ Use of graphic organizers		☐ Probing and clarifying	☑ Provide reminders to
		techniques	students throughout course about resources available
	motes peer community ng and support		☐ Collaborative note-taking
□ Seel perspe	ks multiple ectives	students to ask for help ☐ Utilizes learning pact	☐ Other: Click or tap here to enter text.
В.	Specifically discuss any equit Equity gaps were not observ	ty gaps that have surfaced in the data red.	
C.	What innovative plans or pro None, as equity gaps were n	ojects will help to close these gaps? ot observed.	
Curric	ulum		
A.	·	en peer reviewed within the last 5 ye. e and when it is scheduled for peer re No	
В.		t at least once within a two-year time been taught within the last two acade	•
		□ No kt.	
C.	Have there been any change review? What changes and v	es to the curriculum (courses or progra why?	am) since the last full program
	•	ted after the CSIS program was s the AS degree 'Description' and	
	sociate of Sc Formation Sys	ience, Computer tems	Business

This degree is designed to prepare students for the employment market at the entry level in computer and business information technology in all sizes and types of organizations. The program provides a foundation for those students who plan to complete a four-year program in computer business information systems or related fields of study. The program also provides skills to upgrade current skills to assume greater responsibility in a current employment position. This major prepares students for Information Technology careers in networking, hardware support, cyber security, Internet and Web development, or other emerging technologies.

	ID		Title
CBIS 1	Computer (Concepts (formerly CSIS 1)	
ADJU 1	Introduction	n to the Administration of Justi	ice
ADJU 3	Concepts of	f Criminal Law	
Select 1	Track: Track 1: Cyber S	Security Specialist (must com	plete the following courses)
	ID		Title
CBIS 14	Internet Sec	curity (formerly CSIS 14)	
CBIS 15	Information	n Networking	
CBIS 17	Database D	esign and Management-Micros	soft Access
Track 2:	Computer and Networl	k Specialist (Network+) (mus	t complete the following courses)
	ID		Title
CBIS 13	ID		Title Management of Information Systems
CBIS 13 CBIS 15	ID		
	ID		Management of Information Systems
CBIS 15	ID		Management of Information Systems Information Networking
CBIS 15 CBIS 17	ID	Courses	Management of Information Systems Information Networking Database Design and Management-Microso
CBIS 15 CBIS 17 CBIS 19	ID nits Required		Management of Information Systems Information Networking Database Design and Management-Microso
CBIS 15 CBIS 17 CBIS 19 Major Un			Management of Information Systems Information Networking Database Design and Management-Microsof System Analysis and Design
CBIS 15 CBIS 17 CBIS 19 Major Ut	nits Required		Management of Information Systems Information Networking Database Design and Management-Microsof System Analysis and Design 20.0-22.0

D. If you feel there are any relevant curriculum details not covered in the above three questions, please list them here (optional).

None.

Program Learning Outcome Assessment Data (Standard 2.9, 4.3)

Use the section and questions below to summarize findings, trends, and future action for the PLO assessment data.

Program Learning Outcomes	Assessment Results – Summary of Data	Please list any future plans based on results
A. Currently mapping for the program PLOs is not complete.	-	-
В	-	-
C	-	-
D	-	-
E	-	-

A.	Since the previous program review, what changes or actions, if any, have been taken to improve
	outcomes?

TBD

B. Please reflect on the PLO data above and discuss any possible strengths the program has based on the data.

TBD

- C. Please reflect on the PLO data above and identify areas for student-centered growth or improvement.
 - Are there specific courses/SLOs that the program would like to focus on for growth and improvement?

TBD

- What actions can help grow or improve these areas moving forward? Click or tap here to enter text.
- D. Please reflect on assessment data trends based on ethnicity, race, and gender.
 - What actions can the program take to support equitable outcomes?
 TBD
 - Are there specific student groups the program would like to focus their efforts on?
 TBD

Program Data and Analysis

A. Demographics

Demographics:

Ethnicity	Total 2020/2021 396	Total 2021/2022 479	Total 2022/2023 659
Asian/Filipino	9	7	18
Black/African American	66	113	141
Hispanic	172	206	281
Native American/Alaskan Native	1	0	2
Pacific Islander/Hawaiian	2	3	9
Two or More	46	40	44
White	97	109	164

B. Award Count

Award Count:

Award Count	Total	Total	Total
	2020/2021	2021/2022	2022/2023
	2	8	12

Declared Program:

Award Count	Total	Total	Total
	2020/2021	2021/2022	2022/2023
	46	47	31

C. Student Equity Program Data

- Specifically discuss any equity gaps that have surfaced in the data. Equity gaps were not observed.
- What innovative plans or projects will help to close these gaps? None, as equity gaps were not observed.

D. Student or Program Satisfaction Survey Results

I have no access to such data.

E. CTE-specific data

- CTE Advisory Boards
- Labor Market data
- Program Viability

Based on the report from the National Association of State Directors of Career Technical Education Consortium (CTEC)*, the top employment need will be for graduates with high school diplomas or postsecondary skills in Business/Management by the year 2018. At last year's advisory meeting, local business people confirmed the need for graduates is vital because it encompasses virtually all industries.

*Career Technical Education and Labor Market Demand

http://www.careertech.org/sites/default/files/CTEandLaborMarketDemand-12012.pdf

F. Comparative data (compared to BCC and/or compared to other programs)

Click or tap here to enter text.

G. Institution-Set Standards and the Big Picture

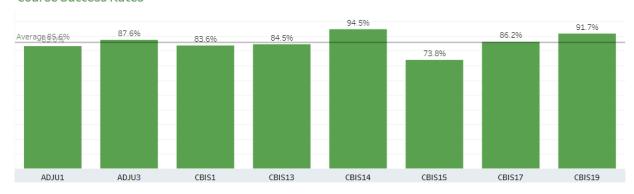
This section provides an opportunity to tie in all the data about the program to tell the story behind the numbers. Be sure to consider what an outsider to your program or career technical field may not know about current trends or changes.

- 1. How is your program doing overall based on observation of program data?

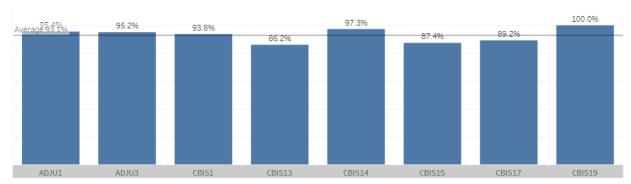
 The program is doing well in terms of Demographics, counts, and degrees awarded.
- 2. Provide an analysis of the "big picture" by reflecting on how your program data compares to the <u>Institution-set Standards</u> below.

	Institution Set (Floor)	Stretch Goal (Aspirational)	Program Data
Course Completion Rates	74%	76%	
Certificates	81	97	
Degrees	437	524	
Transfers	213	287	
*Licensure Exam Pass Rates	70%	79%	
*Employment Rates	60%	73%	

Course Success Rates



Course Retention Rates



^{*}Applicable to CTE

Guided Pathways and Response

- A. Name of the Guided Pathway that your program is a part of Business And Entrepreneurship
- B. List the other programs (clusters) that are part of your Guided Pathway
 - Accounting Business Business Administration (ADT) Computer Business
 Information Systems Cosmetology Entrepreneurship Management Management
 Information Systems Warehousing and Logistics
- C. Provide a summary of how your program collaborates with other programs (clusters) in your Pathway.

Examples of collaboration: meetings, projects, conferences, other cross-disciplinary professional development, etc.

The CBIS AS degree requires that students take two classes from the Administration of Justice.

CBIS-1 is part of few certificates and degrees in other programs.

Faculty/ Program Staff Data and Analysis

A. Faculty Load (FTEF)

Faculty Load (FTEF):

	Total	Total	Total
	2020/2021	2021/2022	2022/2023
FT/PT Ratio	?	?	?

Not sure how to obtain data!

B. FT/PT/OL Faculty Ratio

Faculty Ratio:

	Total	Total	Total
	2020/2021	2020/2022	2022/2023
	5	5	6
FT/PT/OL Ratio	2/3/90%	2/3/100%	2/4/100%

C. Faculty Professional Development

1. Please list any professional development that faculty members have participated in (Standard 3.2)

In-house eLumen training.

SkillPath Courses

2. Please list any professional development that faculty members would benefit from (Standard 3.2)

None.

3. Does the program have sufficient staffing and support? Please discuss. (Standard 2.7) The program might benefit from an additional PT faculty member so additional sessions of the most popular courses can be offered.

D. Overall Observation of Data on Faculty

This section provides an opportunity to tie in all the data about faculty to tell the story behind the numbers. Be sure to consider what an outsider to your program or career technical field may not know about current trends or changes.

Provide an analysis of the "big picture."

The program continues to encourage a blend of technical expertise, problem-solving skills, and a strong understanding of business principles that can help BCC's students stand out in the competitive technology workforce. Additionally, intructors promote a mindset of continuous learning and adaptability that will serve the studetns well in a rapidly evolving field.

SWOT Analysis

Conducting a SWOT Analysis (Strengths, Weaknesses, Opportunities, Threats) is another tool that can help areas evaluate themselves. The SWOT Analysis not only looks internally, but externally as well.

The SWOT Analysis provides a way for areas to highlight their accomplishments and also identify possible gaps or issues that need to be addressed.



	Positive/ Helpful	Negative/ Harmful
Internal	STRENGTHS 1) Instructors have expertise in the curriculum in which they teach. Our instructors have experience in their appropriate fields, many still work or teach similar courses at other institutions. 2) CBIS has a strong staff of part-time instructors. These	WEAKNESSES CBIS AS degree needs to be updated to reflect new trends.
	staff members are timely in their submissions of SLO reports, grading and student response.	
External	OPPORTUNITIES 1) Participation in the DOING WHAT MATTERS for Jobs and the economy Business Information Worker Career pathway and certificate for entry-level office workers. This is a statewide directory in which students can access a portal that will allow them to acquire critical job skills. Completing this pathway will provide job opportunities as well as fundamental knowledge that can lead them into a certificate program.	THREATS 1) Changes in Administrative policies that effect marketing to students. The policies and procedures for marketing the program must be reviewed to determine what avenues are available to instructor staff to boost enrollment. 2) Budgetary constraints that limit the amount of money that can spent on marketing materials.

2) Increase the number of	
students pursuing the AS	
degree in CBIS by promoting the	
program with robust marketing,	
3) Help students finish their	
CBIS program of study.	

III. **Program Goals, Objectives, and Outcomes**

The purpose of this section is to use data to develop goals and objectives for the next three years. Reflect on the responses to all the previous questions and the SWOT analysis in Section Two.

As you develop goals and objectives,

- Formulate two to three Program Goals to maintain or enhance program strengths, or to address identified weaknesses (cite evidence from assessment data and/or other student achievement data, course, faculty, etc).
- indicate the status of the Program Goal (ex: is the goal new, a carry-over from the previous program review cycle, etc.)
- Indicate how each Goal is **aligned** with the College's <u>Strategic Priorities</u>.
- Indicate how each goal is aligned with the Pillars of Guided Pathways.
- List at least one **objective** for reaching each goal.
- Develop an **outcome** statement for each objective.
- Explain how you will measure the outcome

GO

1	
ncreas	e the number of students pursuing the CBIS AS degree.
This Go	pal is
\boxtimes	New
	Continued
	Modified
odified _l	please list how and why.
Click or	tap here to enter text.
Choose Choose	ent to BCC Strategic Priority (Select at least one but also choose all that apply – click an item for the drop-down list to appear) an item. ic Priority 2: Ignite a Culture of Learning and Innovation
	Choose

	Strateg	Strategic Priority 4: Achieve Sustainable Excellence in all Operations					
	Choose	Choose an item.					
C.	Relatio	nship to Guided Pathways					
	\boxtimes	Clarify the Path					
		Entering the Path					
	\boxtimes	Staying on the Path					
	\boxtimes	Support Learning					
D.	Please	list objective(s) for achieving this goal.					
Update	e the CBI	CBIS AS degree.					
E.	Please	Please list outcome statements for each objective.					
		lp student to purse a job in a Computer related job. Or Insfer to a 4-Year institution to pursue the BS degree in a Computer related field.					
F.	Briefly	explain how you will measure the outcome.					
	 I'm I'm 	not sure how to track the number of students who will transfer to a 4-Year institution. not sure how to track the number of students who will gain employment in a Computer ated field.					
G.	Please	list resources (if any) that will be needed to achieve the goal.					
	None.	one.					
	GOAL #2 Make the CBIS degree more appealing and affordable.						
В.	This Go	pal is					
	\boxtimes	New					
		Continued					
		Modified					

If n	nodified please list how and why.			
	Click or tap here to enter text.			
С.	Alignment to BCC Strategic Priority (Select at least one but also choose all that apply – click Choose an item for the drop-down list to appear) Strategic Priority 1: Innovate to Achieve Equitable Student Success			
	Strategic Priority 2: Ignite a Culture of Learning and Innovation			
	Strategic Priority 4: Achieve Sustainable Excellence in all Operations			
	Choose an item.			
D.	Relationship to Guided Pathways			
	☐ Clarify the Path			
	Staying on the Path			
	Support Learning			
Н.	Please list objective(s) for achieving this goal.			
Increa	se student access and student success by providing OER textbooks			
I.	Please list outcome statements for each objective.			
	Click or tap here to enter text.			
J.	Briefly explain how you will measure the outcome.			
	Click or tap here to enter text.			
K.	Please list resources (if any) that will be needed to achieve the goal.			
	None.			
GOAL	#3			

Click or tap here to enter text.

C.	This Go	his Goal is					
		New					
		Continued					
		Modified					
If n	nodified _l	odified please list how and why.					
	Click or	tap here to enter text.					
D.	Alignment to BCC Strategic Priority (Select at least one but also choose all that apply – click Choose an item for the drop-down list to appear) Choose an item.						
	Choose an item.						
	Choose an item.						
Choose an item.							
Ε.	Relationship to Guided Pathways						
		Clarify the Path					
		Entering the Path					
		Staying on the Path					
		Support Learning					
L.	Please l	ist objective(s) for achieving this goal.					
		Click or tap here to enter text.					
M.	Please l	list outcome statements for each objective.					
		Click or tap here to enter text.					
N.	Briefly explain how you will measure the outcome.						
	Click or tap here to enter text.						
Ο.	Please I	ist resources (if any) that will be needed to achieve the goal.					

Previous Goals/Outcomes

Were any outcomes discontinued or completed? Please speak to outcomes you are not carrying forward from the previous program review cycle and discuss why.

Previous Goals:

1. Develop and implement a marketing plan to increase student enrollment in CBIS programs.

Completed on a going process through the college catalog, Advisory Board meetings, and CTE fliers.

2. Devise a system to gather all SLO information from instructor team members for future Program Reviews. This will provide evaluation for the progress of the program.

Completed on a going process through eLumin.

3. Create a new CBIS certificate.

Completed. Two certificates were developed:

- a. MIS Certificate of Achievement.
- b. Cyber Security Certificate of Achievement.

IV. Resource Requests:

What resources are needed for the program to meet its goals and objectives? Resource requests should be evidence-based and tied to goals and objectives stated above.

Resources may be requested from the following categories:

- Personnel/Staffing
- Technology Resource
- Facilities Resource
- Professional Development
- Other

For all resource requests programs should utilize the <u>Budget Allocation Proposal form</u> and submit with their program review. If needed, the Out-of-Cycle BAP form may be submitted for resource requests when completing an Annual Update in Years 2 and 3.

Goal #	Objective #	Resource Required	Estimated Cost	BAP Required? Yes or No	In No, indicate funding source
1	1	Admin support	Hard work and Time.	No	Patience
Click or tap	Click or tap	Click or tap here to enter text.	Click or tap	Click or tap	Click or tap
here to enter	here to		here to enter	here to	here to
text.	enter text.		text.	enter text.	enter text.
Click or tap	Click or tap	Click or tap here to enter text.	Click or tap	Click or tap	Click or tap
here to enter	here to		here to enter	here to	here to
text.	enter text.		text.	enter text.	enter text.
Click or tap	Click or tap	Click or tap here to enter text.	Click or tap	Click or tap	Click or tap
here to enter	here to		here to enter	here to	here to
text.	enter text.		text.	enter text.	enter text.
Click or tap	Click or tap	Click or tap here to enter text.	Click or tap	Click or tap	Click or tap
here to enter	here to		here to enter	here to	here to
text.	enter text.		text.	enter text.	enter text.