Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
A. Program Information			
Program Mission Statement			
How many criteria are met for the Program Mission statement?  Reader Feedback	Addresses 4 to 7 of the criteria – Needs Some Improvement to Meet the Standard  I suggest changing the ordering of the sentences (see below) and I'm not sure about the definitions you provide (are these necessary? or can you use these ideas to describe the "activities of the program" and to indicate "the students/stakeholders"); I think I see the "activities," although these are deemphasized, and I'm not sure about the students/stakeholders question, honestly. In addition, some mention of equity or how the program is addressing equity concerns could be included?  The Geographic Information Systems Technology degree prepares students for entry-level	Addresses 4 to 7 of the criteria – Needs Some Improvement to Meet the Standard  A.1 Criteria = "clearly states the purpose of the program" Konstantin (Reader) comment:  • Compliance = Yes.  • This is well articulated in the GIS Program Mission Statement, in terms of what the program is, hw/sw, degree, and job prospect. As per Writer Mission Statement, as replicated below:  • "Geospatial technology is the unifying tool that explores spatial phenomena. Geospatial technology consists of Geographic information Systems, Global Positioning Systems and Remote Sensing. The Geographic Information Systems Technology program	Addresses all 8 criteria - Meets the Standard
	technician jobs and meets (regional) workforce needs. The	at Foothill College provides opportunities for career	

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	associate degree provides a solid	preparation and lifelong	
	technical background in	learning by providing courses	
	geographic information systems	that meet workforce needs,	
	concepts and applications	and aligns with the U.S.	
	including cartographic concepts,	Department of Labor	
	database design, programming	geospatial competency model	
	and interdisciplinary applications	for geospatial careers.	
	of the technology. The Geographic	Geographic Information	
	Information Systems Technology	Systems are collections of	
	program at Foothill College	computers and software	
	provides opportunities for career	applications used to capture,	
	preparation and lifelong learning	store, transform, manage,	
	by providing courses that meet	analyze and display spatial	
	workforce needs, and aligns with	information. The associate	
	the U.S. Department of Labor	degree provides a solid	
	geospatial competency model for	technical background in	
	geospatial careers. The stacked	geographic information	
	certificates of achievement help	systems concepts and	
	professionals transition to new	applications including	
	roles in the workforce or advance	cartographic concepts,	
	in their current profession.	database design, programming	
	·	and interdisciplinary	
	Geospatial technology is the	applications of the technology.	
	unifying tool that explores spatial	The Geographic Information	
	phenomena. Geospatial	Systems Technology degree	
	technology consists of Geographic	prepares students for entry-	
	Information Systems, Global	level technician jobs and	
	Positioning Systems and Remote	meets workforce needs. The	
	Sensing. Geographic Information	stacked certificates of	

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Rubric Evaluation		achievement help professionals transition to new roles in the workforce or advance in their current profession. "  A.2 Criteria = "indicates the primary function" Konstantin (Reader) comment:  • Compliance = Yes. • This is well articulated in the GIS Program Mission Statement. As per excerpt from the Writer Mission	
		Statement: "The Geographic Information Systems Technology program at Foothill College provides opportunities for career preparation and lifelong learning by providing courses that meet workforce needs, and aligns with the U.S. Department of Labor geospatial competency model for geospatial careers."	

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		A.3 Criteria = "indicates the activities of the program"	
		Konstantin (Reader) comment:	
		• Compliance = Yes.	
		"This is well articulated in	
		the GIS Program Mission	
		Statement. As per excerpt	
		from the Writer Mission	
		Statement: "Geographic	
		Information Systems are	
		collections of computers	
		and software applications	
		used to capture, store,	
		transform, manage,	
		analyze and display spatial	
		information. The associate	
		degree provides a solid	
		technical background in	
		geographic information	
		systems concepts and	
		applications including	
		cartographic concepts,	
		database design,	

programming and interdisciplinary applications of the technology. "

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		A.4 Criteria = "describes the	
		programs' aspirational goals for	
		the future and what the program	
		hopes to achieve"	
		Konstantin (Reader) comment:	
		<ul><li>Compliance = Yes.</li></ul>	
		<ul> <li>"This is well articulated in</li> </ul>	
		the GIS Program Mission	
		Statement. As per excerpt	
		from the Writer Mission	
		Statement: "The	
		Geographic Information	
		Systems Technology	
		degree prepares students	
		for entry-level technician	
		jobs and meets workforce	
		needs. The stacked	
		certificates of achievement	
		help professionals	
		transition to new roles in	
		the workforce or advance	
		in their current	
		profession."	
		A.5 Criteria = "reflects the	
		program's priorities and values"	
		Konstantin (Reader) comment:	
		,	

• Compliance = Partial.

(Although this is addressed

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		later in the Writer's	
		narrative, with the request	
		to establish a lab equipped	
		with the proper hw and sw	
		in support of students	
		especially low income and	
		under-represented	
		communities).	
		<ul> <li>For the priorities of the</li> </ul>	
		program, this is partially	
		addressed in the excerpt	
		from the Writer Mission	
		Statement: "The	
		Geographic Information	
		Systems Technology	
		degree prepares students	
		for entry-level technician	
		jobs and meets workforce	
		needs. The stacked	
		certificates of achievement	
		help professionals	
		transition to new roles in	
		the workforce or advance	
		in their current	
		profession."	
		<ul> <li>Recommendation: Should</li> </ul>	
		include the statement as	
		proposed in A.7.2: "The	
		GIST program supports	

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		equity for all students by	
		(1) Outreach to under-	
		represented communities,	
		and (2)proposing to	
		establish a GIS Lab with	
		the appropriate hw/sw	
		and internet to enable all	
		students to complete the	
		class successfully".	
		A.6 Criteria = "indicates who the	
		students and/or stakeholders	
		are"	
		Konstantin (Reader) comment:	
		<ul><li>Compliance = Yes.</li></ul>	
		<ul> <li>"This is well articulated in</li> </ul>	
		the GIS Program Mission	
		Statement. As per excerpt	
		from the Writer Mission	
		Statement: "The	
		Geographic Information	
		Systems Technology	
		degree prepares students	
		for entry-level technician	
		jobs and meets workforce	
		needs. The stacked	
		certificates of achievement	
		help professionals	
		1 1	

transition to new roles in

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		the workforce or advance	

in their current profession. "

# A.7 Criteria = "is aligned to the college mission statement"

Reference = Foothill College Mission Statement broken (see https://www.foothill.edu/preside nt/mission.html), broken into 3 parts (bullets), with comments after each.

#### 1. <u>Foothill College Mission</u> <u>Statement Sentence #1:</u>

"Believing a well-educated population is essential to sustaining and enhancing a democratic society, Foothill College offers programs and services that empower students to achieve their goals as members of the workforce, as future students, and as global citizens."

 Konstantin (Reader) comment:

Compliance = Yes, with the     1st part of the FH Mission     Statement. as listed below.  This criteria is addressed in	
<ul> <li>This criteria is addressed in the following statement in the GIS program's mission statement: "The Geographic Information Systems Technology program at Foothill College provides opportunities for career preparation and lifelong learning by providing courses that meet workforce needs, and aligns with the U.S. Department of Labor geospatial competency model for geospatial</li> </ul>	
2. Foothill College Mission	
work to obtain equity in achievement of student outcomes for all California student populations, and are guided by	
	Geographic Information Systems Technology program at Foothill College provides opportunities for career preparation and lifelong learning by providing courses that meet workforce needs, and aligns with the U.S. Department of Labor geospatial competency model for geospatial careers."  2. Foothill College Mission Statement Sentence #2: "We work to obtain equity in achievement of student outcomes for all California student

integrity, trust, openness,

Rubric Evaluation

Brian Lewis
(Faculty At-Large)

(Classified Staff At-Large)

transparency, forgiveness, and

Classified Staff At-Large)

transparency, forgiveness, and sustainability. "

- Konstantin (Reader) comment:
- Compliance = No. Did not find explicit equity-related terminology. (Although equity is addressed in several sections of the narrative, i.e. work with the Deans, Instructors, and Marketing, to advertise the program, and also establish a GIS Lab to make sure all students have the appropriate hw/sw, and internet access).
- "This criteria is not addressed in the GIS Program Mission Statement. Recommend adding some words about equity. For example:
- this class can permit alternative ways (beyond testing) to demonstrate you have mastered the fundamentals.

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	(Faculty At-Large)	(Classified Staff At-Large)	(Same Division Faculty)
		<ul> <li>how this class is evolving</li> </ul>	
		to address equity issues by	
		leveraging Universal	
		Design for Learning (UDL)	
		principles. See	
		https://www.understood.o	
		rg/en/school-learning/for-	
		educators/universal-	
		design-forlearning/	
		understanding-universal-	
		design-for-learning	
		<ul> <li>Mention the request to set</li> </ul>	
		up the appropriate hw/sw	
		in a GIS Lab, to address	
		resource availability	
		(robust PC, strong/stable	
		Internet connection), to all	
		students, especially low	
		income and under-	
		represented communities.	
		Something like: "The GIST	
		program supports equity	
		for all students by (1)	
		Outreach to	
		underrepresented	
		communities, and	
		(2)proposing to establish a	

GIS Lab with the

appropriate hw/sw and

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		internet to enable all	
		students to complete the	
		class successfully".	
		3. Foothill College Mission	
		Statement Sentence #3: "Foothill	
		College offers associate degrees	
		and certificates in multiple	
		disciplines, and a baccalaureate	
		degree in dental hygiene."	
		1. Konstantin (Reader) comment:	
		"This criteria is addressed in the	
		following statement in the GIS	
		program's mission statement:	
		"The associate degree provides a	
		solid technical background in	
		geographic information systems	
		concepts and applications	
		including cartographic concepts,	
		database design, programming	
		and interdisciplinary applications	
		of the technology. "	
		A.8 Criteria = "is clear and concise"	

Konstantin (Reader) comment:

Yes.

• Compliance = Conditional

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		<ul> <li>"Recommend incorporate Equity verbiage, as stated in A.7."</li> </ul>	
<b>Program Learning Outcomes</b>			
Overall, this section:	Addresses all 5 criteria - Meets the Standard	Addresses all 5 criteria - Meets the Standard	Addresses all 5 criteria - Meets the Standard
Reader Feedback		The 4 PLOs (Program Learning Outcomes) stated are measurable, knowledge-cumulative, student-centered, clear, and actionable	Excellent, clearly written, and understandable. Well aligned with the 4-Cs in the ILOs.
B. FTES - Enrollment Trends			
1. What does the FTES data trend indicate?	FTES has improved over the time span - Excellent	FTES has improved over the time span - Excellent	FTES has improved over the time span - Excellent
FTES Narrative Explanation - Discu for no change/flat, an increase or	ess the factors that would help the col decrease in the trend.	llege understand these trends and wi	hether there are tangible reasons
Overall, in this section:	The narrative includes all 4 of the criteria - Meets the Standard	The narrative includes all 4 of the criteria - Meets the Standard	The narrative exceeds expectations - the narrative could be used as an exemplar - Excellent
FTES Action Narrative (if applicable	e) - Describe the proposed actions for	stabilizing/increasing the FTES.	
Overall, in this section:	The narrative includes all 5 of the criteria - Meets the Standard	The narrative includes all 5 of the criteria - Meets the Standard	The narrative exceeds expectations - the narrative could be used as an exemplar - Excellent
Reader Feedback	I feel this area might need some more thought, and when I read later sections	FTES = Full Time Equivalent Student = 1 student taking a full	This narrative demonstrates a comprehensive understanding of the enrollment issues, what the

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	(enrollment/productivity), I think some of the information there could be provided here as	load of classes for 1 academic year.	department did to mitigate those issues, and how proactive they are with regard to increasing
	explanation. Perhaps when a program is increasing its FTES, we don't need to have such a robust	FTEF = Full Time Equivalent Faculty = 1 Instructor teaching? equated hrs/wk for 1 quarter	enrollment.
	set of "proposals" here, but it seems the proposals are really just the last two sentences. "The action proposed to	WSCH = Weekly Student Contact Hours = (# of class contact hrs class is scheduled to meet/week)	
	stabilize/increase FTES is to additional sections of GIST 11 and GIST 12, the two "gateway"	* (# of students in the class) Productivity = FTES / FTEF	
	courses to the program. GIST 11 is entirely lecture, so has higher productivity which stands to	Productivity (as defined in this document) = WSCH / FTEF	
	benefit the program. The faculty will continue multipronged outreach efforts also." I think the	Clearly articulates understanding of the trend, identifies the root cause (difficult access to the	
	"to" is really a "two" and we need a verb "to add" "two additional sections"?	Sunnyvale campus due to 101/237 traffic. Program reacts by moving the class online, which helped increase enrollment due to easier	
	How is adding new classes informed by data? Just explaining how these classes will improve the	class accessability. In support of the online class, and with the help of ETS, enabled cloud-based	
	program (not necessarily FTES), along with how you'll measure the effect of the new classes.	virtual desktops to allow students on any computer to successfully	

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	(Carrier of the Sanger	complete the class. Also identified	(came career a accuse),
		need for robust computers to	
		run the GIS sw. More work needs	
		to be done in this space to	
		accommodate the needs of the	
		students (strong internet	
		connection, robust computer,	
		and/or onsite GIS lab), as is	
		requested further down this	
		evaluation by the Writer.	
C. Sections - Enrollment Trends			
Section Narrative Explanation (If A	Applicable) - <i>Explain why the number</i>	of sections is flat, increased or decre	ased.
Overall, in this section:	The narrative includes all 4 of the	The narrative includes all 4 of the	The narrative exceeds
	criteria - Meets the Standard	criteria - Meets the Standard	expectations – the narrative could
			be used as an exemplar - Excellent
Section Narrative Explanation (If A	Applicable) - <i>Explain why the number</i>	of sections increased while FTES dec	reased.
Overall, in this section:	The narrative includes all 3 of the		
	criteria - Meets the Standard		
Reader Feedback		Offered a minimum number of	N/A
		sections, which were fully	
		enrolled. Thus increased	
		productivity. Plan is to increase	
		the number of sections, in	
		certain gateway classes to	
		increase interest. However as per	
		Writer, "The program is small	
		(under 50 FTES) and is intended to	

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		remain small, as this satisfies the demands of regional workforce. " Since the demand for regional workforce is small, makes sense to keep the number of sections	
		FTES increased, thus the last section (Section Increased while FTES decreased) is not applicable.	
D. Productivity - Enrollment Tren	ds		
1. What does the data indicate about the productivity trend?	The program productivity trend has increased or has reached its maximum - Excellent	The program productivity trend has increased or has reached its maximum - Excellent	The program productivity trend has increased or has reached its maximum - Excellent
Productivity Narrative Explanation	on (If Applicable) - <i>Explain why the pro</i>	oductivity is flat, increased or decreas	ed.
Overall, in this section:	The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes all 3 of the criteria - Meets the Standard
Productivity Action Narrative (If	Applicable) - Describe the proposed ac	tions for stabilizing/increasing the pr	roductivity number.
Overall, in this section:	The narrative is not included		
Reader Feedback		the move of the program to online format helped productivity. Students could not get to the evening classes onsite prior to the online move.	N/A

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		Last section about increasing productivity not applicable, as it is already increasing.	
E. Enrollment by Student Demogra	phics		
a. Enrollment by Gender			
Enrollment by Gender Narrative Ex	planation - Explain why the enrollm	ent rates is flat, increased or decreas	e for male, female, or non-binary.
Overall, in this section:	The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes all 3 of the criteria - Meets the Standard	The narrative exceeds expectations – the narrative could be used as an exemplar - Excellent
2. Does your program differ in the percentage of males to females, in this most recent year, compared to the College? (College 2019-20 = 51% Female, 47% Male)	The difference between the genders/sex is less than or equal 10% - Excellent	The difference between the genders/sex is less than or equal 10% - Excellent	The difference between the genders/sex is less than or equal 10% - Excellent
Enrollment by Gender Action Narra program taking to achieve parity?	ative (If Applicable) - What is the sou	rce of gender disparity and what pro	pposed/planned actions is the
Overall, in this section:	The narrative is not included		
3. What does the data trend indicate about enrollment (headcount) by gender of declared majors in the program?	The Gender gap by declared major is between 0% and 10% - Excellent		The Gender gap by declared major is between 0% and 10% - Excellent
Reader Feedback		The program focus on gender equity is reflected in the about 50/50 ratio of female and male.	

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		Section on Gender Disparity does not apply, as the female/male ratio is about 50/50.	
		Writer narrative states trends for Female, Male, and Non-Binary are flat. Agree. Yearly numbers vary, however given the +/- direction, average trend seems to be flat.	
b. Enrollment by Ethnicity			
Does your program differ in enrollment distribution among ethnic groups, in this most recent year, compared to the College enrollment by ethnic group? (2019-20 College enrollment distribution by ethnicity: 4% African American, 38% Asian, 5% Filipinx, 25% Latinx, 0% Native American, 1% Pacific Islander, 21% White, 4% Decline to State)	The enrollment does not mirror the college's ethnic distribution – Needs Some Improvement to Meet the Standard	The enrollment does not mirror the college's ethnic distribution – Needs Some Improvement to Meet the Standard	The enrollment does not mirror the college's ethnic distribution – Needs Some Improvement to Meet the Standard
Enrollment by Ethnicity Narrative E (address each ethnic group by bulle		changes identified over the past five	years for each ethnic group
Overall, in this section:	The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes all 3 of the criteria - Meets the Standard

Enrollment by Ethnicity Action Narrative (If Applicable) - Describe the proposed actions for addressing disparities in enrollment by ethnic group within the program.

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Overall, in this section:	The narrative includes all 5 of the criteria - Meets the Standard	The narrative includes all 5 of the criteria - Meets the Standard	The narrative includes all 5 of the criteria - Meets the Standard
Reader Feedback		Writer understands the trends and will work with the Advisory Board, Counselors, Instructors, and college marketing professionals to remedy.	
F. Student Course Success			
a. Student Course Success			
1. What does the data trend indicate about overall course success?	Course success has decreased over the time span by no more than 4	Course success has decreased over the time span by no more than 4	Course success has decreased over the time span by no more than 4
success.	percentage points - Needs Some Improvement to Meet the Standard	percentage points - Needs Some Improvement to Meet the Standard	percentage points - Needs Some Improvement to Meet the Standard
	re Explanation - If the data trend shows	s an increase, decrease, or no change	e in students' course success
Overall, in this section:	The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes all 3 of the criteria - Meets the Standard
Student Course Success Action Nation Percentages.	Narrative (If Applicable) - Describe the p	proposed actions for stabilizing/incre	easing the student's course success
Overall, in this section:	The narrative includes all 5 of the criteria - Meets the Standard	The narrative includes all 5 of the criteria - Meets the Standard	The narrative includes all 5 of the criteria - Meets the Standard
Reader Feedback		Writer understands trends. Root cause is move to online format, which requires either a robust pc	The department undeniably understands the impact of the technology necessary for the

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		or strong internet to use the cloud	discipline and how it can affect
		version of the GIS sw.	student success. They inform their
		These limitations are explained to	students ahead of time and
		the students. Impact is greatest in	appear to work hard to do what
		the low income group. Remedy is	they can to bridge any gaps.
		to have an onsite presence for the	However, other issues aside from
		students that do not have a robust	technology may be at play in any
		pc or strong internet connection	reduction in student success, such
		to stop by and use the sw onsite.	as the effect of the global
		In 2020/Winter, the program has	pandemic on those student
		also began tutoring services in the	groups for the last part of the
		Learning Resource Center (STEM	academic year 2019-2020? What
		Center, Garden program). Too	overall economic issues are at
		early to review effectiveness at	play? Are other colleges (Diablo
		this time of the tutoring program,	Valley for instance) that offer
		especially given the lack of access	similar programs and if so, what is
		to onsite resources. Also GIS	their success rate?
		program will work with the BSS	
		and PSME Deans to provide a	
		campus lab with the robust PCs	
		and sw in support of the GIS	
		classes. The Learning Resource Center (LRC - which includes	
		the Garden and the STEM Center)	
		will work with GIS in support of	
		establishing the hw/sw (GIS Lab)	
		establishing the hw/sw (GIS Lab)	

required to enable students complete the class successfully.

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		This is aligned with the LRC's equity plans, in providing all students with the right type of support needed to succeed.	
b. Student Course Success by Stude	ent Groups		
3. Is there a course success gap between African-American, Latinx, Filipinx student groups and Asian, Native American, Pacific Islander, White, Decline to State student groups?	The gap between the two groups has increased over the time span  – Needs Major Improvement to Meet the Standard	The gap between the two groups has decreased over the time span – Meets the Standard	The gap between the two groups has increased over the time span – Needs Major Improvement to Meet the Standard
Course Success by Student Groups	Narrative Explanation - Explain why	the course success gap is flat, increa	sed or decreased.
Overall, in this section:	The narrative includes fewer than 2 of the criteria - Needs Major Improvement to Meet the Standard	The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes all 3 of the criteria - Meets the Standard
-	Action Narrative (If Applicable) - Whan-American, Latinx, and Filipinx stud		
Overall, in this section:	The narrative includes all 5 of the criteria - Meets the Standard	The narrative includes all 5 of the criteria - Meets the Standard	The narrative includes all 5 of the criteria - Meets the Standard
Reader Feedback	Under "Student Course Success by Student Groups" you not that there is "no" equity gap in success, but there clearly is in the data success numbers 60 compared to 66%, with previous	Reason for success drop in all groups is the same: Requires robust PCs and stable strong Internet connections. Thus impacts those that cannot afford these resources the most.	It may not be possible to understand all the reasons for declines in student success and higher withdrawal rates, but the department is making informed,

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
	years even more glaring.	In F.b, question #3 (". In the data	student-centered changes to
		table above, is there a course	mitigate the situation.
		success gap between African-	
		American, Latinx, Filipinx student	
		groups and Asian, Native	
		American, Pacific Islander,	
		White, Decline to State student	
		groups?"), Writer states "No". Is	
		this response in error by the	
		Writer? However in Question #4,	
		(". Does the data suggest that	
		changes are necessary to decrease	
		student course success gap	
		between African-American,	
		Latinx, Filipinx student groups and	
		Asian, Native American, Pacific	
		Islander, White, and Decline to	
		State student groups? "), Writer	
		states Yes. Agree with the latter,	
		that yes there is a gap, and yes	
		changes are necessary to improve.	
		Also interesting to note that there	
		is a reversal of the gap, which is	
		not explained, First 2 years (2015-	
		2017), African-American, Latinx,	
		and Filipinx have a higher success	
		rate than Asian, Native American,	
		Pacific Islander, and White group.	

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	(Faculty At-Large)	(Classified Staff At-Large)	(Same Division Faculty)
		Then 2017-2020, it reverses.	
		Although 1st 2-year gaps seem	
		much smaller than last 3 years.	
		Possible the low-income factor is	
		responsible, which can exist in any	
		of the groups.	
G. Student Course Success by Do	emographics		
a. Student Course Success by Ge	ender		
What does the data indicate			
about course success?			
Female	Course success has decreased	Course success has decreased	Course success has decreased
	over the time span by more than 4	over the time span by more than 4	over the time span by more than 4
	percentage points - Needs Major	percentage points - Needs Major	percentage points - Needs Major
	Improvement to Meet the	Improvement to Meet the	Improvement to Meet the
	Standard	Standard	Standard
Male	Course success has decreased	Course success has decreased	Course success has decreased
	over the time span by more than 4	over the time span by more than 4	over the time span by more than 4
	percentage points - Needs Major	percentage points - Needs Major	percentage points - Needs Major
	Improvement to Meet the	Improvement to Meet the	Improvement to Meet the
	Standard	Standard	Standard
Non-binary	Course success has decreased	Course success has been flat or	Course success has decreased
	over the time span by more than 4	decreased over the time span by	over the time span by more than 4
	percentage points - Needs Major	no more than 2 percentage point	percentage points - Needs Major
	Improvement to Meet the	<ul> <li>Meets the Standard</li> </ul>	Improvement to Meet the
	Standard		Standard

Course Success by Gender Narrative Explanation - If the data trend shows an increase, decrease, or no change/flat in the male, female, or non-binary student course success percentages, explain why the percentage is flat, increased or decreased.

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
Overall, in this section:	The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes 2 of the criteria - Needs Some Improvement to Meet the Standard
Course Success by Gender Act male, female, or non-binary.	ion Narrative (If Applicable) - <i>Describe pi</i>	roposed actions to stabilize/increase	the course success rates for either
Overall, in this section:	The narrative includes all 5 of the criteria - Meets the Standad	The narrative includes all 5 of the criteria - Meets the Standad	The narrative includes 4 of the criteria - Needs Some Improvement to Meet the Standard
Reader Feedback		Root cause is again availability of robust PCs and stable/strong Internet connections. Thus need (1)onsite lab with PCs and the proper sw, as well as stable Internet connections. Also expand tutoring services in the Learning Resource Center Garden. The STEM Center is in strong support of working with the GIS and PSME divisions to establish a GIS Lab in the LRC Garden, with robust (gaming-level PCs) to accommodate the computation-intensive GIS sw.	The decline in the male category is significant and suggests further exploration into this statistic necessary. Again, is this impacted by the global pandemic? What about the economic implications in the last six months of the academic year 2019-20?
		Disclosure: Reader (Konstantin) is the STEM Center Program	

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
		Coordinator, and was part of the founding team of the Garden, that Allison (Writer) is referring to.	
b. Student Course Success by Ethni	city		
What does the data trend indicate about program student course success by ethnicity?			
African Americans	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard
Asian	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard
Filipinx	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard
Latinx	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
Native American	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard
Pacific Islander	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard
White	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard
Decline to State	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard	Course success has decreased over the time span by more than 4 percentage points - Needs Major Improvement to Meet the Standard
	thnicity Narrative Explanation (If Applicabl , explain why the percentage decreased for	• •	
Overall, in this section:		The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes 2 of the criteria - Needs Some Improvement to Meet the Standard

Student Course Success by Ethnicity Narrative Explanation (If Applicable) - Describe the reasons for the gap in course success.

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
Overall, in this section:	The narrative includes all 3 of the criteria - Meets the Standard		The narrative includes all 3 of the criteria - Meets the Standard
Student Course Success by Et success by ethnicity.	hnicity Action Narrative (If Applicable) - <i>L</i>	Describe the proposed actions for stal	bilizing/improving the course
Overall, in this section:	The narrative includes all 5 of the criteria - Meets the Standard	The narrative includes all 5 of the criteria - Meets the Standard	The narrative includes all 5 of the criteria - Meets the Standard
Reader Feedback		Writer understands root cause, which is (1)Requires robust PC to run the sw, or (2) requires strong/stable Internet connection to run the sw on the ETS supported virtual desktop via the cloud. Also understands the solution is to (1)establish GIS Open Lab with the appropriate sw, and (2) Provide the open Lab with strong/stable Internet connection.  In Section G.b.2, "Do the data indicate a gap in course success for any of the ethnic groups as compared to other groups?", Writer responds "No". Is this an error? Need to provide narrative for this section. Then in G.b.3, "Do the data suggest that	I found this Program Review to be thoughtful, well written, and reflective. The turnaround that GIST made from academic years 2015-17 to 2019-20 is impressive. Comebacks are never easy and this program should be commended for its decisive actions and its plans for the future. From a reader's standpoint, I found the rubric to be confining, and often times it felt like I was being led to a conclusion that I didn't necessarily agree with. For instance, items that "are in the department's control". If I left that box unchecked, it didn't meet the standard, no matter what the narrative had to say about the item.

Rubric Evaluation	Brian Lewis	Konstantin Kalaitzidis	Lisa Drake
	(Faculty At-Large)	(Classified Staff At-Large)	(Same Division Faculty)
		changes are necessary to improve	
		program course success	
		equality?", Writer responds	
		"Yes". Agree with the latter. There	
		is a gap among the ethnic groups.	
		And Yes, changes are necessary to	
		remedy.	
		Strongly support the proposal	
		requesting collaboration between	
		the BSS and PSME divisions to	
		establish a GIS Lab, (in the LRC	
		Garden) providing gaming-level	
		PCs and strong Internet	
		connections to enable all students	
		an equal opportunity to succeed.	

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
A. Re-Accreditation Information			
2. Did the program maintain accreditation?	The program was reaccredited, received commendations, and no citations/recommendations - Excellent		The program was reaccredited and received both commendations and citations/recommendations - Meets the Standard
4. What were the major citations of the last re-accreditation report (e.g. areas of improvement, strategic direction, facilities, personnel, etc.)?			The program was able to take actions to improve and received the needed support to take the actions - Meets the Standard
Did the program make the required improvements?		The program maintained its accreditation.	
Reader Feedback	According to the program review, "there is not an accrediting body for this program, however the curriculum is modeled after the NSF Model Geospatial Technology	As per Writer, "There is not an accrediting body for this program".	
	curriculum"	As per Writer, "curriculum is modeled after the NSF Model Geospatial Technology curriculum "	

#### B. Advisory Board

- 1. Did the program hold an annual advisory board meeting each year of the five-year cycle?
- 2. Did the program submit the advisory board meeting minutes each year of the five-year cycle?
- 3. Did the program include the web address/link to the online minutes?

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
Overall, in this section:	Yes the program held an annual meeting of the advisory board and submitted the minutes - Meets the Standard	Yes the program held an annual meeting of the advisory board and submitted the minutes - Meets the Standard	Yes the program held an annual meeting of the advisory board and submitted the minutes - Meets the Standard
<ul><li>4. Were there any advisory board commendations/special mentions identified?</li><li>5. Are there any identified actions</li></ul>	The program received commendations - Meets the Standard for improvement or recommendatio	The program received commendations - Meets the Standard ns based on feedback from the program is based on	The program received commendations - Meets the Standard ram's advisory board?
_	aken to address recommendations m		-
Overall, in this section:	The program was able to take actions or investigate the recommendations and received the needed support to proceed - Meets the Standard	The program was able to take actions or investigate the recommendations and received the needed support to proceed - Meets the Standard	The program was able to take actions or investigate the recommendations and received the needed support to proceed - Meets the Standard
Reader Feedback		Recommendation by the Advisory Board was to move the GIST program online, as a response to declining enrollment. GIST did move online. Challenges were identified as students needed either (a) robust PC or (b) very stable internet connection (to access GIST sw online). The challenges are being addressed by the Writer via the request to establish a GIS Lab, where students can have access to both a strong Internet connection	GIST has done an exemplary job in working with their advisory board, including strategy and implementation. The move to all online asynchronous classes has increased their reach.

Rubric Evaluation	Brian Lewis	Konstantin Kalaitzidis	Lisa Drake
	(Faculty At-Large)	(Classified Staff At-Large)	(Same Division Faculty)
		(already in place at the STEM	
		Center/Garden), and robust PCs	
		with the GIS sw running. The	
		Instructor has the full support of	
		the STEM Center to establish such	
		a GIS Lab, and also jointly request	
		funding (from BSS and PSME	
		divisions) for an appropriate	
		number of "gaming" laptops to be	
		purchased for the GIS Lab, so	
		students can run the GIS sw	
		without issues. This contributes to	
		equity efforts, as it provides the	
		right resources for students that	
		may not have the means to	
		purchase these needed resources	
		to successfully complete the class.	
C. Regional Labor Demand			
1. In the data table above, what	Labor demand has an upward	Labor demand has an upward	Labor demand has an upward
does the regional labor demand	trend - Excellent	trend - Excellent	trend - Excellent
data trend indicate?			
<ol><li>Describe the regional demand for demand, explain why.</li></ol>	or labor in this sector. If the projecte	ed data trend shows no change/flat, a	an increase, or decrease in labor
Overall, in this section:	The narrative includes all 3 of the	The narrative includes all 3 of the	The narrative exceeds
Overan, in this section.	criteria - Meets the Standard	criteria - Meets the Standard	expectations – the narrative coul
	Criteria - Meets the Standard	Citeria - Meets the Standard	be used as an exemplar - Exceller

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
Reader Feedback		GIS is a supplemental skill to many fields, such as Environmental Sciences, Public Safety, Computer Science, etc. The Writer understands and explains the regional demand context, as reflected in their comment: " notoriously difficult to define in the Projected Regional Job Openings as Geospatial Technology skills are supplemental to many fields and are used to enhance/upskill workers in a variety of fields".	Excellent narrative describing the integration of the program, the student demographic, and how GIS is utilized.
D. Regional Labor Supply			
1. In the data table above, what does the regional labor supply data trend indicate?	Labor supply is projected to increase - Needs Improvement to Meet the Standard	Labor supply is projected to increase - Needs Improvement to Meet the Standard	Labor supply is projected to increase - Needs Improvement to Meet the Standard
2. Describe the regional supply fo	r labor in this sector over the last five	years. If the data trend shows no ch	ange/flat, an increase, or decrease
in labor supply, explain why.			
Overall, in this section:	The narrative includes all 3 of the criteria - Meets the Standard		The narrative includes all 3 of the criteria - Meets the Standard
Reader Feedback		(Reader Comment: Looked up definition of labor supply on several websites. Need clarification of how the Labor Supply data, Labor Supply	The readers were informed by the Office of Instruction that the labor supply chart reflects duplicated counts of students, which may not serve as the best data for labor supply. There is no feedback to

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
		descriptions/definitions, and the Writer's explanation correlate.)	provide to the program at this time.
		As follow-up to the above comment/question, and request for clarification, "The readers were informed by the Office of Instruction that the labor supply chart reflects duplicated counts of students, which may not serve as the best data for labor supply. There is no feedback to provide to the program at this time."	
E. Regional Wages			
1. In the data table above, what does the wage data trend indicate?	The occupational wage trend increased - Excellent	The occupational wage stayed flat - Meets the Standard	The occupational wage stayed flat - Meets the Standard
2. Describe the regional trend for in wages, explain	wages in this sector over the last five	years. If the data trend shows no ch	ange/flat, an increase, or decrease
Overall, in this section:	The narrative includes all 3 of the criteria - Meets the Standard	The narrative includes 2 of the criteria - Needs Some Improvement to Meet the Standard	The narrative includes all 3 of the criteria - Meets the Standard
Reader Feedback	GIST program review notes that the trend is "flat" when there was a slight "increase"	Writer understands the trend (averages to flat), as well as the occupational trends. Recommend	There is a clear understanding of the student demographic and how GIS classes are utilized by the student population.

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
		providing a bit more detail as to the reason for this trend.	
		The Writer's last couple of sentences may partially explain how the trend is determined: "Students included in this survey completed one or more GIS classes, but may not have GIS as their primary occupation. The "Median Wage" of graduates reflects the varying composition and wide pay range of the jobs that require GIST skills."	
		A bit more detail would help clarify what the reason for the trend is.	
F. Program 13.5 Course Completion	n		
1. In the data table above, what does the data trend indicate about the number of students completing the 13.5 CTE units each year in the last five years within your program?	The number of students completing 13.5 units decreased over the 5 year period - Needs Improvement to Meet the Standard	The number of students completing 13.5 units decreased over the 5 year period - Needs Improvement to Meet the Standard	The number of students completing 13.5 units decreased over the 5 year period - Needs Improvement to Meet the Standard

2. If the data trend shows no change/flat, an increase, or decrease in the number of students completing the 13.5 CTE units, explain why.

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
Overall, in this section:	The narrative includes all 3 of the	The narrative includes all 3 of the	The narrative includes all 3 of the
	criteria - Meets the Standard	criteria - Meets the Standard	criteria - Meets the Standard
Reader Feedback		Writer understands the trend	
		decrease, and reason. As per	
		Writer: "As the program moved	
		online in 2018, the program	
		struggled to have students	
		complete their degrees/	
		certificates as many students were	
		"drop in" for specific skills and did	
		not see the need to complete the	
		full certificate"	
		Writer also explains what the	
		department is doing to help	
		increase certificate completions,	
		by having program faculty	
		encourage students to complete	
		their certificates.	
		The Writer's recommendation for	
		the GIST industry to establish a	
		formal accreditation or licensing	
		group (which does not exist	
		presently) would probably	
		encourage more students to	
		complete their certifications.	
		Would be great to include a	

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
		sentence or 2 if Foothill College is engaged in this accreditation effort	
G. Program Graduate Employmen	t Rates		
1. In the data table above, what does the graduate employment rate indicate for certificate/degree completers (e.g., Within one year after Community College Completion)?	Employment rate is 79% to 70% - Needs Some Improvement to Meet the Standard	Employment rate is 79% to 70% - Needs Some Improvement to Meet the Standard	Employment rate is 79% to 70% - Needs Some Improvement to Meet the Standard
	nent rate trend for both certificates a	nd degrees. If the projected data tre	nd shows no change/flat, an
Overall, in this section:	The narrative includes all 4 of the criteria - Meets the Standard	The narrative includes 3 of the criteria - Needs Some Improvement to Meet the Standard	The narrative includes all 4 of the criteria - Meets the Standard
Reader Feedback	If the program needs to work on anything here, it would be to look into more of the "what is in the control of the department" in order to respond to the decline in the trend. The trend is said to be "flat" but while it's flat if looked at from a distance, the real numbers show a slight decrease from the starting point. I'm no data guru, however.	In Item G.1 above, selected "Employment rate is 79% to 70%", as the data cycles between 67% and 74%, which averages to about 71%.  Recommend adding a bit more detail as to the reason for the trend. The comment by the Writer: "The data reflects that GIS	This is a great example of a CTE program working in conjunction with their advisory board to best serve their workforce demographic.

Rubric Evaluation	Brian Lewis (Faculty At-Large)	Konstantin Kalaitzidis (Classified Staff At-Large)	Lisa Drake (Same Division Faculty)
		skills can help to enhance the	
		employability of students	
		as between 67% and 73% of	
		students who took a GIS course	
		" partially describes how GIS	
		classes help increase the student's	
		employability. However, it is not	
		clear why the trend is relatively	
		flat between 2011 to 2019.	