



Environmental Technology and SustainabilityAdvisory Committee

Lake Tahoe Community College
Wednesday March 20th, 2019

1:00 – 2:30 PM

Aspen Room

- Welcome/Introductions
- Annual Program Review/Program Data
- General Discussion/Feedback from Industry Partners
- LTCC Audubon Cooperative Sanctuary
 - Arboretum
 - Interpretive trail
 - "Take Care" signage
 STHS Industry Trade Fair Junior/Senior Open House
- New EVS/ETS Brochure
- Website
- Perkins



Environmental Technology & Sustainability Advisory Committee Meeting Minutes March 20th 2019

Welcome and Introductions

- Meeting called to order at 1:07 p.m.
- LTCC Staff Attendance:
 - Deeds, Brad Dean of Workforce Development and Instruction
 - Dixon, Pete Counselor
 - Goligosky, Amber Program Coordinator of Work-Based Learning
 - McCoubry, Scott Program Assistant Institutional Effectiveness
 - Rhone, Jamie Career and Technical Education Program Specialist
 - Smith, Lakin Work-Based Program Assistant
 - Strain, Kathy Science Technician/Adjunct Faculty Lake Tahoe Community College
- Workforce Partners, Stakeholders, Regional Collaborators:
 - Jensen, Adam Environmental Education Specialist, Tahoe Regional Planning Agency
 - Middlebrook, Devin Sustainability Program Coordinator, Tahoe Regional Planning Agency
 - Peterson, Carrie ETS Deputy Sector Navigator (DSN) North/Far North Region California Community Colleges

• General Discussion

- o The discussion centered around what jobs are available for students who complete the Environmental Technology & Sustainability (ETS) degrees, and the minimum educational qualifications required for most related industry jobs in the Tahoe basin. TRPA representatives reported that jobs that students can get after completing one of the ETS degrees are typically entry-level seasonal positions with the US Forest Service, Tahoe Resource Conservation District, etc. Those jobs could actually be obtained with a Certificate of Achievement vs. an Associate's degree. As most jobs in the industry require a minimum of a Bachelor's degree, and the current ETS degree is not a degree aligned with the needs of transfer students, individuals who wish to continue their education to get a Bachelor's or Master's degree are currently required to take significantly more units prior to transfer. Institutional Research looked into degree completers for ETS: the majority of students who have earned AAs in Environmental Technology & Sustainability (a couple in Biological Resources & Physical Resources, zero in Sustainability) eventually did transfer on to four-year universities, thus further supporting the ETS advisory committee's recommendation yesterday of reworking the ETS program from 3 terminal AA degrees to:
 - one (streamlined) Certificate of Achievement,
 - (possibly one or more lower-unit) Employable Skills Certificates, and then
 - design an Associate in Science for Transfer (AST) in Environmental Science instead.
- Industry representatives validated the jobs students can get with an ETS AA degree (Forest Service, STPUD, Tahoe Resource Conservation District, etc.) are typically entry-level and/or seasonal, and would be accessible to students earning a Certificate. They also verified that students wishing to secure jobs in the Tahoe Basin in the related Environmental/Science industry would need a bachelor's degree at minimum. Thus the unanimous committee recommendations above.

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

O The meeting adjourned at 2:23 p.m.

Handouts

- o Program Reviews/Biennial Review
 - Environmental Technology & Sustainability Biennial Review/Awards (2017-18))

Respectively submitted, Melissa Liggett Career & Technical Education Technician



CTE PROGRAM BIENNIAL REVIEW

For all Career and Technical Education (CTE) Programs, please fill out the following worksheet as part of the required biennial review.

CTE Program: Environmental Technology & Sustainability Date Reviewed: March 2019

1. Purpose of this Progra	m	
Significantly Changed Purpose	Minor Changes in Purpose	No Changes in Purpose
in the Last Two Years	in the Last Two Years	in the Last Two Years
	(Description, mission, target population, etc.	.)
2. Demand for this Progra	am	
Hisb Damand	Adamieta Damand	Laur Damand
High Demand	Adequate Demand for our students	Low Demand
2 Overlite of this December	(Labor market data, advisory input, etc.)	
3. Quality of this Progran	1	
Highest Quality	Meets Student Needs	Needs Significant
		Improvement
(Core in	ndicators, student outcomes, partnerships, certific	ates, degrees,
	lation, faculty qualifications, diversity, grants, equi	
4. External Issues		
0 6: 5		
Benefits From and Contributes to External Issues	Complies with External Issues	Not Consistent with External Issues
Contributes to External issues		
(Legislation, CCCC	CO mandates, VTEA, Tech Prep, CalWORKs, WIA, B	OG Career Ladders, etc.)
5. Cost of this Program		
Income Exceeds	Income Covers	Expenditures
Expenditures	Expenditures	Exceed Income
(Enrollment/FTEs generated	d & in-kind contributions of time/resources minus	salaries/equipment/supplies, etc)
6. Projected Schedule (fo	rmerly Two Year Plan)	
		Need Significant Changes
Significant Growth	On Track for	and/or Increased
Anticipated	Next Two Years	Resources to Continue
(Recommen	dations, project future trends, personnel and equi	pment needs, etc.)

Environmental Science - Environmental Tech and Sustain

·LTCC·

ENVIRONMENTAL SCIENCE - ENVIRONMENTAL TECH AND SUSTAIN SUMMARY

This report contains data from Academic Year (AY) 2014 to 2017. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below. Except for in the Awards section, students enrolled through the Incarcerated Students Program are excluded.

	Total Sections	F2F Sections	Dist Ed Sections	Total FTES	F2F FTES	Dist Ed FTES	Total Duplicated Headcount	F2F Duplicated Headcount	Dist Ed Duplicated Headcount
2015-16	4	4	0	2.93	2.93	0.00	42	42	0
2016-17	4	4	0	4.44	4.44	0.00	67	67	0
2017-18	7	7	0	4.62	4.62	0.00	89	89	0
2-Yr Chg (15-16 to 17-18)	75.0%	75.0%		57.6%	57.6%		111.9%	111.9%	
1-Yr Chg (16-17 to 17-18)	75.0%	75.0%		3.9%	3.9%		32.8%	32.8%	

RESIDENT FTES DUPLICATED HEADCOUNT 100 50 2015-16 P2F FTES DE FTES DE PTES DUPLICATED HEADCOUNT 100 F2F FTES DE Dup Headcount DE Dup Headcount

Environmental Science - Environmental Tech and Sustain

DEMOGRAPHICS

	2015-16		20	16-17	2017-18		
	N	%	N	%	N	%	
Male	19	54.3%	22	55.0%	16	31.4%	
Female	15	42.9%	18	45.0%	35	68.6%	
Unknown	1	2.9%	0	0.0%	0	0.0%	

	2015-16		20	16-17	2017-18		
	N	%	N	%	N	%	
Asian	1	2.9%	2	5.0%	1	2.0%	
Hispanic	6	17.1%	10	25.0%	9	17.6%	
Native Amer/Alaska Native	0	0.0%	0	0.0%	1	2.0%	
White Non-Hispanic	25	71.4%	26	65.0%	37	72.5%	
Two or more races	3	8.6%	2	5.0%	1	2.0%	
Other	0	0.0%	0	0.0%	1	2.0%	
Unknown	0	0.0%	0	0.0%	1	2.0%	

	2015-16		20	16-17	2017-18		
	N	%	N	%	N	%	
Age < 25	21	60.0%	23	57.5%	18	35.3%	
Age 25 - 49	9	25.7%	15	37.5%	27	52.9%	
Age 50 +	5	14.3%	2	5.0%	6	11.8%	

	2015-16	2016-17	2017-18
Median Age	26	24	29
Youngest	18	17	17
Oldest	68	69	63

Environmental Science - Environmental Tech and Sustain

AWARDS

	Award Type	Award Title	Awards Conferred
2016-17	AA Degree	Biological Resources	1
	AA Degree Physical Resources		1
	Certificate	Physical Resources	1
2017-18	AA Degree	Biological Resources	1
	AA Degree	Physical Resources	3

Environmental Science - Environmental Tech and Sustain

COURSE SUCCESS

	2015-16		2016	-17	2017-18		
	Enrollment	Success	Enrollment	Success	Enrollment	Success	
Male	22	77.3%	37	83.8%	19	84.2%	
Female	18	94.4%	26	84.6%	66	92.4%	

	2015	-16	2016	-17	2017-18		
	Enrollment	Success	Enrollment	Success	Enrollment	Success	
Asian	1	100.0%	2	0.0%	1	100.0%	
Hispanic	7	85.7%	14	57.1%	13	92.3%	
Native Amer/Alaska Native	0	0.0%	0	0.0%	2	50.0%	
White Non-Hispanic	28	89.3%	44	97.7%	63	92.1%	
Two or more races	4	50.0%	3	66.7%	4	100.0%	
Other	0	0.0%	0	0.0%	1	0.0%	
Unknown	0	0.0%	0	0.0%	1	100.0%	

	2015-16		2016	-17	2017-18		
	Enrollment	Success	Enrollment	Success	Enrollment	Success	
Age < 25	21	71.4%	33	75.8%	19	73.7%	
Age 25 - 49	14	100.0%	27	92.6%	56	96.4%	
Age 50 +	5	100.0%	3	100.0%	10	90.0%	

	2015-16		2016	-17	2017-18		
	Enrollment	ment Success Enroll		Success	Enrollment	Success	
F2F	40	85.0%	63	84.1%	85	90.6%	

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

Environmental Science - Environmental Tech and Sustain

2017-18 COURSE STATISTICS

ENVIRONMENTAL SCIENCE - ENVIRONMENTAL TECH AND SUSTAIN PRODUCTIVITY* (2017-18): 221.12

% FULL TIME INSTRUCTORS** (2017-18): 23%

% ADJUNCT INSTRUCTORS** (2017-18): 57%

	FACE TO FACE	Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTES	WSCH	FTEF	Productivity
EVS-102	Environ Science: System Dyn	1	0.0%	100%	0%	14.0	14.0	100.0%	85.7%	1.01	56	0.08	225.40
EVS-103	Enviro Science: Human Impacts	1	0.0%	0%	100%	20.0	17.0	85.0%	76.5%	1.55	80	0.08	320.00
EVS-104	Env Tech and Sust Lab Methods	1	0.0%	0%	0%	9.0	9.0	100.0%	88.9%	0.24	14	0.03	144.00
EVS-105	Env Tech and Sus Field Methods	1	0.0%	0%	0%	11.0	10.0	90.9%	90.0%	0.37	22	0.04	176.00
EVS-131D	ST: STEM/STEAM (Part I)	2	50.0%	0%	100%	14.0	14.0	100.0%	100.0%	0.57	28	0.04	224.00
EVS-131E	ST:STEM/STEAM Earth Science	1	0.0%	0%	100%	11.0	11.0	100.0%	100.0%	0.45	22	0.04	176.00
EVS-131F	ST: STEM/STEAM (Part III)	1	0.0%	0%	100%	10.0	10.0	100.0%	100.0%	0.42	20	0.04	160.00
Total		8	12.5%	23%	57%	12.7	12.1	95.5%	90.6%	4.62	242	0.36	

DISTANCE EDUCATION	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.