Assessment: Program Review Updates prior to Fall 2018

Program (UnivSt) - University Studies: Oceanography AA.1498

Program Catalog Summary: University Studies – 22 Unit Emphasis:
SC Program: AA.1498

This degree plan identifies courses needed for a student to transfer into any of the marine sciences. The associate degree emphasizes a multidisciplinary approach as a foundation that can then be applied to an Oceanography bachelor's degree or a more specialized bachelor's degree such as Marine Biology or Marine Fisheries.

The Learning Outcomes correspond to the Institutional Student Learning Outcomes.

Complete the following 14 units:
BIOL 1 Principles of Biology (4)
ESCI 1 Physical Geology (4)
ESCI 15 Oceanography (4)
ESCI 16 Coastal Oceanographic Field Studies (2)

Choose the remaining 8 units from the following transferable courses to include at least one additional science course:

Related Science Courses:
AGNR 60 Environmental Science (3)
AGNR 61 Environmental Science Lab (1)
BIOL 12 Field Biology (4)
CHEM 1B General Chemistry (5)
ESCI 10 Environmental Geology (4)
ESCI 17 Earth System Science (3)
ESCI 37 Geology of the Northern California Coast (1.5)
ESCI 38 Geology of Point Reyes National Seashore (1.5)
NHIS 15 Natural History (3)
NHIS 65 Natural History of Patrick's Point (1)
PHYS 2B General College Physics

Courses from supporting disciplines:
AGNR 1 Introduction to Natural Resources (3)
AGNR 83 Introduction to Global Positioning Systems (1)
CIS 1 Computer Literacy Workshop (3)
GEOG 10 Introduction to Geographic Information Systems (3)
MATH 3B Calculus 3B (5)
MATH 14 Introduction to Statistics (4)

Fall 2017

Who completed this form?: Program Review Committee
Other factors for consideration: This is a University Studies program and is reviewed by the PRC
****TO BE COMPLETED BY THE PROGRAM REVIEW COMMITTEE** PRC Action::** PRC recommends the program continue with qualification
Summary Date: 04/11/2018
Summary of findings: Final University Studies: Oceanography AA. 1498

The PRC recommends this program continue with qualification. This change in decision stems from robust discussion prompted by the faculty comments following our original decision on 3.14.18. As a result of the PRC discussion during our meeting on 4.11.18, we voted to change our previous evaluation from program discontinuance to continue with qualification. We will re-evaluate the program in 2019. Unless specific actions and related outcomes are achieved based on our below recommendations and others determined by the program faculty, this University Studies degree will be tagged for discontinuance.

The program shows only two degrees in the past five years with the last one in 2014/15. There are three "core" courses. The five-year average success rates are 79.4% but a steady decline is seen in the past three years, landing at 71.88% for 2016/17, above the Institution- Set Standard of 70% but alarming in the degree of change. Retention rates are strong with a five-year average of 89.23%. Enrollments have eroded 23.02 % from a high in year 2012/13 of 181 students with 10 sections, to a low of 139 students in year 2016/17 with 7 sections. The SLO's for BIO 1 have been mapped but the other two classes have not been mapped to ISLO's, which serve as the program learning outcomes for the University and General Studies degrees.

The PRC recommends the following:
1. The faculty map the SLO's to ISLO's, which serve as the program learning outcomes for the University and General Studies degrees.
2. The faculty work with Marketing and others to create program promotions and specifically educate Counselors about the merits of this program related to student degree attainment.
3. The faculty review enrollment trends and work on increasing (where appropriate to curriculum, SLO's and so forth) the student enrollments per section.

Summary review date: 04/11/2018
Date summary sent to program faculty and/or counselors: 03/22/2018
Program faculty response: From Randy Reed based on initial recommendation from PRC:
Part of the critique here describes the decline when I was away and sick with Leukemia. I am a bit bothered by the recommendation which seems to be more centered on a one-year trend.

Further, since my return and progression in recovery, I've been trying to catch up to the workload I missed which includes mapping the SLO's and ISLO's. By the way, the BIOL 1 SLO is a complete joke. You should take a look at it.

And finally, the biggest problem I've had reported to me from students is that NO ONE seems to know this degree exists. Before I got sick, I had an Oceanography major tell me she went to three counseling session asking about majoring in oceanography. The first two times she was told there is no such degree on campus. The third time she was told the same thing, but then the councilor said, "wait a minute… let me check", and that's when she was finally signed dup for the program!!

Program Review needs to consider more than the stats they can pull from Tableau. Program success is multi-faceted and includes advertising and educating not just the councilors, but students inclusive of into,ming high school students.

There is one other massive issue that I've argued about for a while: there are 2 Natural Science degrees and they are the second most awarded degrees on campus. I call them both "junk yard" degrees because you can assemble any combination of science classes you would like and get those degrees and the result may or may not prep you for further progress toward a science degree once the student transfers! I have had Geology majors (not the AS-T… that is another matter) go over to sign up for the program and counselors try to talk them into the Natural Science degree instead; that degree they know. I'll add this, the Natural Science degree was NOT written by any science faculty but rather, it was written by a councilor.

Sorry that this comes across a bit harsh. I've been frustrated by this whole thing for over 5 years now. I guess I'm just in a place now that if I don't at least say something about it, then I'm really just quietly complaining. I do have solutions to solve these issues and one is the Guided pathway Idea I mentioned in the coordinator meeting and two others that I've scribbled some notes about.

I'm happy to talk about this further with you or anyone, inclusive of Frank. Feel free to forward the above should you feel it appropriate. I'll finish with this though, I have been considering modifying this degree and others (in all of my spare time!) but I am completely AGAINST discontinuous as the Program Review process is supposed to first to=ake steps to assist in making a program successful rather than first recommending discontinuance… at least that's they way it was developed 3 years ago.

Counselor response: From Sue Loring, Counselor based on initial recommendation of PRC: I agree with the recommendations for Geology, Oceanography and Psychology. I'm not sure there's a need for the University Studies –Science Teacher degree, though. The program allows students to select from a number of classes, many of which are not required for bachelor degree programs

for science teachers. Students would need a recommendation about which classes are best choices, and some, like Chem 1A and Phys 2A, are not even included in the list. Students could accomplish the same goal (preparation for becoming a science teacher) by completing our Univ. Studies – Natural Sciences degree.
Date summary sent to College Council: 04/26/2018
Date reviewed by College Council: 05/01/2018
College Council response or additional action: Committee acknowledged receipt of program review recommendations.

Fall 2017 Program Review
Course Statistics

		Academic Year				
Course Name		2012-13	2013-14	2014-15	2015-16	2016-17
AGNR-1	# of Sections	2	2	1	1	2
	Enrollment	49	47	20	23	44
	FTES	7.7	7.5	3.0	3.2	6.5
	FTEF	0.57	0.57	0.28	0.28	0.28
	WSCH	230	225	90	95	193
	Avg Enrl/Section	25	24	20	23	22
	Avg FTES FTEF	13.54	13.24	10.59	11.19	14.12
	Avg WSCH FTEF	406	397	318	335	424
AGNR-60	# of Sections	16	11	11	7	10
	Enrollment	367	267	288	257	254
	FTES	34.4	26.8	26.6	24.1	23.9
	FTEF	1.97	1.60	1.60	1.40	1.40
	WSCH	1,049	819	813	738	728
	Avg Enrl/Section	23	24	26	37	25
	Avg FTES FTEF	15.40	16.00	16.13	17.21	16.00
	Avg WSCH FTEF	471	489	493	527	488
AGNR-61	# of Sections	3	2	2	2	2
	Enrollment	64	47	50	46	57
	FTES	5.7	4.4	4.1	4.1	5.5
	FTEF	0.45	0.30	0.30	0.30	0.30
	WSCH	171	132	123	123	165
	Avg Enrl/Section	21	24	25	23	29
	Avg FTES FTEF	12.67	14.67	13.67	13.67	18.33
	Avg WSCH FTEF	380	440	410	410	550
AGNR-83	# of Sections	1				
	Enrollment	20				
	FTES	1.2				
	FTEF	0.11				
	WSCH	37				
	Avg Enrl/Section	20				
	Avg FTES FTEF	11.08				
	Avg WSCH FTEF	342				
BIOL-1	# of Sections	2	2	2	2	2
	Enrollment	63	56	55	43	47
	FTES	17.1	13.6	14.4	11.2	11.7
	FTEF	0.87	0.87	0.87	0.87	0.87
	WSCH	512	408	432	336	352
	Avg Enrl/Section	32	28	28	22	24
	Avg FTES FTEF	19.69	15.69	16.62	12.92	13.54
	Avg WSCH FTEF	591	471	498	388	406
BIOL-12	# of Sections					1
	Enrollment					27
	FTES					2.7
	FTEF					0.20
	WSCH					83

Fall 2017 Program Review
Course Statistics

	Avg Enrl/Section					27
	Avg FTES FTEF					13.50
	Avg WSCH FTEF					415
CHEM-1B	# of Sections	4	4	4	4	3
	Enrollment	89	91	69	85	71
	FTES	20.5	18.2	16.3	19.1	15.4
	FTEF	1.27	1.07	1.07	1.07	0.65
	WSCH	616	545	490	574	462
	Avg Enrl/Section	22	23	17	21	24
	Avg FTES FTEF	17.36	19.41	17.43	22.79	27.40
	Avg WSCH FTEF	521	582	523	684	822
CIS-1	# of Sections	32	37	40	54	52
	Enrollment	987	1,090	1,121	1,346	1,410
	FTES	99.7	118.3	109.4	136.6	143.1
	FTEF	6.78	8.95	8.23	8.23	8.47
	WSCH	3,335	4,074	4,087	4,935	5,133
	Avg Enrl/Section	31	29	28	25	27
	Avg FTES FTEF	14.69	13.18	12.05	12.50	12.73
	Avg WSCH FTEF	493	456	464	483	500
ESCI-1	# of Sections	6	3	2	2	3
	Enrollment	55	30	19	28	24
	FTES	8.6	5.4	3.6	4.6	3.4
	FTEF	0.59	0.35	0.35	0.22	0.29
	WSCH	258	162	108	138	102
	Avg Enrl/Section	9	10	10	14	8
	Avg FTES FTEF	10.29	13.14	9.14	7.43	8.00
	Avg WSCH FTEF	309	394	274	223	240
ESCI-10	# of Sections			4		1
	Enrollment			20		9
	FTES			2.0		1.8
	FTEF			0.35		0.35
	WSCH			60		54
	Avg Enrl/Section			5		9
	Avg FTES FTEF			2.86		5.14
	Avg WSCH FTEF			86		154
ESCI-15	# of Sections	2	2	2	2	2
	Enrollment	67	76	70	76	69
	FTES	12.2	13.4	13.4	13.6	12.6
	FTEF	0.70	0.70	0.70	0.70	0.70
	WSCH	366	402	402	408	378
	Avg Enrl/Section	34	38	35	38	35
	Avg FTES FTEF	17.43	19.14	19.14	19.43	18.00
	Avg WSCH FTEF	523	574	574	583	540
ESCI-17	# of Sections	4	4		4	
	Enrollment	24	27		36	
	FTES	2.2	2.3		3.0	
	FTEF	0.20	0.20		0.20	

Fall 2017 Program Review
Course Statistics

	WSCH	66	69		90	
	Avg Enrl/Section	6	7		9	
	Avg FTES FTEF	4.50	8.50		9.00	
	Avg WSCH FTEF	135	255		270	
ESCI-37	# of Sections		1		1	
	Enrollment		39		15	
	FTES		2.0		1.2	
	FTEF		0.14		0.14	
	WSCH		59		33	
	Avg Enrl/Section		39		15	
	Avg FTES FTEF		14.33		8.12	
	Avg WSCH FTEF		416		233	
ESCI-38	# of Sections	1		1		
	Enrollment	28		20		
	FTES	1.9		1.1		
	FTEF	0.14		0.14		
	WSCH	57		32		
	Avg Enrl/Section	28		20		
	Avg FTES FTEF	13.69		7.62		
	Avg WSCH FTEF	402		226		
GEOG-10	# of Sections		1	2	1	1
	Enrollment		26	25	19	17
	FTES		1.8	3.8	2.5	2.8
	FTEF		0.28	0.57	0.28	0.28
	WSCH		93	115	75	85
	Avg Enrl/Section		26	13	19	17
	Avg FTES FTEF		6.35	6.76	8.82	9.99
	Avg WSCH FTEF		328	203	265	300
MATH-3B	# of Sections	4	4	4	3	3
	Enrollment	143	111	100	98	96
	FTES	18.9	15.5	17.2	17.9	15.2
	FTEF	1.07	1.07	1.33	1.00	1.00
	WSCH	568	464	517	536	457
	Avg Enrl/Section	36	28	25	33	32
	Avg FTES FTEF	17.75	14.50	12.93	17.87	15.23
	Avg WSCH FTEF	532	435	388	536	457
MATH-14	# of Sections	37	43	42	44	48
	Enrollment	1,244	1,281	1,235	1,294	1,468
	FTES	154.3	165.2	163.7	169.2	191.5
	FTEF	8.55	9.88	9.61	10.15	11.12
	WSCH	4,652	4,985	4,945	5,111	5,738
	Avg Enrl/Section	34	30	29	29	31
	Avg FTES FTEF	17.43	15.83	16.54	15.89	16.33
	Avg WSCH FTEF	526	478	500	481	495
NHIS-15	# of Sections	5	5	4	5	4
	Enrollment	59	58	24	55	57
	FTES	5.5	5.4	2.2	5.4	5.7

Fall 2017 Program Review
Course Statistics

	FTEF	0.40	0.40	0.20	0.40	0.37
	WSCH	165	162	66	162	174
	Avg Enrl/Section	12	12	6	11	14
	Avg FTES FTEF	11.25	7.75	3.50	7.00	10.00
	Avg WSCH FTEF	338	233	105	210	308
PHYS-2B	# of Sections	2	2	2	2	2
	Enrollment	35	38	31	30	33
	FTES	7.0	7.4	5.4	6.0	6.6
	FTEF	0.50	0.50	0.50	0.50	0.50
	WSCH	210	222	162	180	198
	Avg Enrl/Section	18	19	16	15	17
	Avg FTES FTEF	17.24	18.19	14.95	13.14	16.29
	Avg WSCH FTEF	517	546	449	394	489
Grand Total	# of Sections	121	123	123	134	136
	Enrollment	2,809	2,826	2,758	3,053	3,256
	FTES	396.9	407.2	386.3	421.5	448.5
	FTEF	24.14	26.88	26.10	25.73	26.78
	WSCH	12,292	12,821	12,442	13,534	14,302
	Avg Enrl/Section	23	23	22	23	24
	Avg FTES FTEF	15.72	14.69	14.17	14.56	14.99
	Avg WSCH FTEF	489	465	462	476	492

Fall 2017 Program Review
Success and Retention

			Academic Year				
Course Name	Title		2012-13	2013-14	2014-15	2015-16	2016-17
AGNR-1	Intro to Natural Resources	Success	78.26%	75.56%	77.78%	68.42%	80.33%
		Retention	86.96%	88.89%	100.00%	84.21%	83.61%
AGNR-60	Environmental Science	Success	77.19%	64.93%	64.18%	69.51%	73.98%
		Retention	90.94%	91.42%	86.94%	91.06%	86.99%
AGNR-61	Environmental Science Lab	Success	86.21%	79.55%	87.80%	69.05%	70.69%
		Retention	89.66%	90.91%	95.12%	83.33%	81.03%
AGNR-83	Intro Global Position Systems	Success	89.47%				
		Retention	89.47%				
BIOL-1	Principles of Biology	Success	85.94%	88.24%	87.04%	83.33%	91.11%
		Retention	89.06%	92.16%	90.74%	85.71%	95.56%
BIOL-12	Field Biology	Success					88.89%
		Retention					100.00%
CHEM-1B	General Chemistry	Success	79.78%	88.51%	78.87%	84.15%	87.14%
		Retention	87.64%	94.25%	91.55%	91.46%	98.57%
CIS-1	Computer Literacy Workshop	Success	75.67%	68.15%	69.53%	74.40%	76.11%
		Retention	92.08%	91.91%	90.43%	91.88%	92.13%
ESCI-1	Physical Geology	Success	75.00%	88.89%	88.89%	73.91%	70.00%
		Retention	86.36%	96.30%	94.44%	86.96%	75.00%
ESCI-10	Environmental Geology	Success			100.00%		87.50%
		Retention			100.00%		100.00%
ESCI-15	Oceanography	Success	86.89%	85.07%	71.64%	70.42%	58.73%
		Retention	96.72%	92.54%	85.07%	87.32%	84.13%
ESCI-17	Earth System Science	Success	63.64%	69.57%		67.74%	
		Retention	90.91%	95.65%		87.10%	
ESCI-37	Geology of No. Califonia Coast	Success		63.89%		100.00%	
		Retention		80.56%		100.00%	
ESCI-38	Geol Pt. Reyes Natl Seashore	Success	78.57%		65.00%		
		Retention	96.43%		85.00%		
GEOG-10	Intro to Geographic Info Syst	Success		83.33%	72.73%	86.67%	82.35%
		Retention		88.89%	77.27%	86.67%	82.35%
MATH-3B	Calculus 3B	Success	59.86%	51.28%	55.77%	55.05%	69.15%
		Retention	76.76%	79.49%	76.92%	88.07%	90.43%
MATH-14	Introduction to Statistics	Success	60.80%	62.20%	61.33%	55.12%	61.28%
		Retention	82.30%	84.23%	81.63%	79.14%	82.86%
NHIS-15	Natural History	Success	74.55%	83.33%	72.73%		
		Retention	87.27%	98.15%	86.36%		
	Natural History of California	Success				78.18%	81.36%
		Retention				90.91%	94.92%
PHYS-2B	General College Physics	Success	94.29%	91.89%	96.43%	90.00%	91.18%
		Retention	97.14%	97.30%	96.43%	93.33%	100.00%
Grand Total		Success	70.41%	67.19%	66.57%	66.66%	70.17%
		Retention	87.18%	88.49%	86.01%	86.52%	87.75%

Fall 2017 Program Review
Program Awards

Award Type	Program Type - TOP61	2013-14	2014-15
Associate of Arts (A.A.) degree	Oceangraphy-191900	1	1
Grand Total		1	1