## NECHE Inventory of Educational Effectiveness Indicators Graduate Programs (PSM in Biotechnology - 2019-20)

	(1)	(2)	(3)	(4)	(5)	(6)
	List ONLY the	For each learning	What were the	Who interprets the	What	Date of most
DEGREE	program learning	objective listed in	results/outcomes/findings/conclusion(s)	evidence? Describe	changes/improvements	recent program
GRANTING	objective(s) assessed	column (1), other than	of the assessment?	the process	have been made as a	review
PROGRAM	during the current	GPA, what data/ evidence was used to	Explain results/findings/conclusions for	(e.g. annually by the curriculum	result of using the data/evidence (3)?	
Name	reporting period	determine that graduates	each program learning objective listed	committee).	Link discussion in this	
1 (111/12)		have achieved the stated	in column (1)	commuce).	column with a	
		objectives? (e.g.,	in column (1)		learning objective (1)	
		capstone assignment,			and the results of	
		portfolio review,			assessing that	
		licensure examination)			objective (3)	
PSM in	Communication	Data from a Directed	1) Using two Intellectual and	(a) Program	For future	2019
Biotechnology	and Team Work	case study was	Practical Skills rubrics from	Director (Dr.	assessment and	
	(Program	collected over this	AACU as the guide, students	Sunny Tam) and	report, we would	
	Learning	period from (1)	were evaluated on their	Faculty	like to incorporate	
	Objective, PLO	student capstone	foundation in the understanding	members (Dr.	more direct testing	
	#4)	experience and (2)	of Communication & Team	Simon Fricker	& measurement to	
		Technical Writing	Work while attending the	& Dr. Stefan	better assess the	
		course & (3)	Technical Communication	Doerre) have	selected PLOs. A	
		Bioethical course to	course, Bioethics course and	discussed on the	committee of	
		support conclusion	Capstone Internship course.	progress of the	faculty members	
		on this PLO. They	Based on the case study's	students, and the	and the program	
		also have included	scoring with the AACU rubric	chosen value	director will meet	
		(1) student training	scheme, the following	attributes to	and design on the	
		set of attributes	observation is obtained. With	examine on all	direct case studies.	
		important for the	the AACU classification; 1	PLOs including	We will continue	
		PLO using AACU	student is below the benchmark	communication	to utilize the	
		Values Rubric	(score of below 25), 3 students	and team work.	current AACU	
		analyses, (2)	meet milestone of acceptance	(b) For capstone	values rubric to	
		capstone projects	(score between 25 and 50),	internship	assess	
		competence review	2students meet milestone of	projects, both	development	
		with faculty	high acceptance (score between	the Program	under each PLO.	

members, and (3)	50 and 75), and finally the	Director and	For future
faculty	remaining students of 14 meet	project mentors	capstone
confirmations of	the highest capstone level (score	interacted	internship
student performance	between 75 and 100). Out of	regularly to	
on PLO.	the 20 students, 5% of students	discuss on the	
	did not reach the acceptance	student progress	
	level. 15% of students have	and reviewed all	projects, we will
	passed the acceptance level.	the final reports	continue to hold
	10% of students have exceeded	before and after	honest discussion
	the high acceptance level. 70%	the capstone	and evaluation
	of the remaining students have	internship	before and after
	exceeded our expectation of	studies.	the study with the
	their communication and team	stadies.	students, faculty
	work in the highest capstone		members and
	level. For future program		industry mentors.
	progress, we hope that every		If any student has
	student can exceed the high		completed
	acceptance level by meeting all		national
	the rubrics for milestone		professional
			1
	achievement (score of higher		license
	than 50). (2) For the 4 students		examination, we
	who have completed the 400		will also include
	hours Capstone internship study		the result as part
	over this period, careful directed		of our annual
	evaluation of their progress		program report.
	based on the selected attributes		
	were completed. Based on the		
	capstone project evaluations and		
	direct case study, good		
	communication and team		
	concepts among the students		
	were all in the high capstone		
	level (score between 75 and		
	100). This is an encouraging		
	finding over many months of		
	hard work incorporating		

Insert URL of the program web page where Program Learning Objectives for this program are published (NECHE requires this as part of being transparent to stakeholders): <a href="https://www.framingham.edu/Assets/uploads/about-fsu/office-of-assessment/">https://www.framingham.edu/Assets/uploads/about-fsu/office-of-assessment/</a> documents/assessment-plan-professional-science-masters.pdf