NECHE INVENTORY OF EDUCATIONAL EFFECTIVENESS INDICATORS GRADUATE PROGRAMS (M.S. CONCENTRATION IN FOOD AND NUTRITION WITH A SPECIALIZATION IN FOOD SCIENCE AND NUTRITION SCIENCE - 2018-19)

	(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/		(e.g. annually by the	result of using the	
NAME	reporting period	evidence was used to	Explain results/findings/conclusions for	curriculum	data/evidence (3)?	
INAME		determine that graduates	each program learning objective listed	committee).	Link discussion in this	
		have achieved the stated	in column (1)		column with a	
		objectives? (e.g.,	•		and the results of	
		portfolio review			and the results of	
		licensure examination)			objective (3)	
M.S.	PLO1:	PLO1: For students	Students in the MS thesis option	Sarah Pilkenton	Due to the small	The
Concentration	Demonstrate	in the thesis option	of the program demonstrate a	and Emmanouil	size of the	Department
in Food and	knowledge of	of the program, the	satisfactory to excellent	Apostolidis	program, it has	of
Nutrition with a	fundamental	MS thesis and thesis	knowledge of fundamental	interpret the	taken five years to	Chemistry
Specialization	concepts in	defense in FDSC	concepts in functional foods.	evidence.	collect enough	and Food
in Food Science	functional foods	960 are used. For	The topic of their MS thesis is		artifacts to assess.	Science,
and Nutrition		students in the non-	an in-depth evaluation of a	Due to the small	The assessment	which
Science	PLO2: Evaluate	thesis option, the	functional food. The students'	size of the	plan needs to be	houses the
	and analyze	comprehensive	MS thesis is evaluated using	program, SP and	revised to	program,
	realistic	exam is used.	attached rubric. The results of	EA collect	incorporate the	conducted a
	situations in the		the thesis evaluations are	artifacts when	following:	self-study
	food industry.	PLO2: For students	attached in a separate file.	available. The	-	during the
		in the thesis option	Aggregated data for seven	artifacts are	PLO1 needs to be	Spring 2016
		of the program, the	students completing the thesis	assessed as they	modified.	semester.
		MS thesis and thesis	option between 2014 and 2019	are collected.	Although students	This
		defense in FDSC	show that the students meet the		in the thesis	document
		960 are used. For	expectations of the program.		option focus on	was
		students in the non-	An additional demonstration of		functional foods,	submitted to

PLO3: Prod	uce thesis option, the	the achievement of the program	students in the	the Dean of
high quality	comprehensive	learning objectives of the	non-thesis option	Science,
written repo	orts exam is used.	students in the thesis option are	do not.	Technology,
and present	their	seven publications of student		Engineering,
contents	PLO3: For students	work in peer reviewed food	Students in both	and
effectively	in the thesis option	science journals, seven poster	the thesis and non-	Technology
	of the program, the	presentations by students at	thesis options take	in
PLO4:	MS thesis and thesis	national conferences, and four	an oral	September
Demonstrat	e the defense in FDSC	students in the thesis option	comprehensive	2016.
ability to	960 are used. For	have received awards or	exam at the end of	
thoroughly	students in the non-	scholarships from the food	the program. For	
review scien	ntific thesis option, there	science community. These	students in the	
literature	is no mechanism for	items are not requirements of	thesis option, this	
	collecting artifacts to	the program, but they are	is carried out in	
	assess.	evidence that PLO1, 3, 4, and 5	the format of a	
PLO5: Perf	form	are achieved at a satisfactory	thesis defense.	
high quality		level.	The following	
research in	PLO4: For students		need to be	
specific area	as in the thesis option	A flaw in the current assessment	collected and/or	
relevant to	of the program, the	plan is that there is no formal	developed to	
functional f	bods MS thesis and thesis	mechanism for assessment the	better assess the	
	defense in FDSC	program leaning outcomes for	MS thesis	
	960 are used. For	students participating in the	program: slides	
	students in the non-	non-thesis option of the	from the thesis	
	thesis option, there	program. During the five year	defense need to be	
	is no mechanism for	time period that is covered in	collected, and a	
	collecting artifacts to	this assessment report, three of	rubric for	
	assess.	ten students participated in the	assessing the	
		non-thesis option of the	program learning	
		program. This issue needs to be	objectives using	
	PLO5: For students	addressed in a revised version	the thesis defense	
	in the thesis option	of the assessment plan for the	needs to be	
	of the program, the	program.	developed.	
	MS thesis and thesis			
	defense in FDSC		Students in the	
	960 are used. For		non-thesis option,	

students in the non		must participate in	
thesis antion there		nust participate in	
in a machanism for		a lood industrial	
is no mechanism lor		fracticum	
collecting artifacts to		(industrial	
assess.		internship). The	
		comprehensive	
		final exam centers	
		on the students'	
		internship	
		experience. In	
		order to assess the	
		learning	
		objectives of the	
		program with	
		respect to students	
		in the non-thesis	
		option, a written	
		report from the	
		internship	
		experience needs	
		to be collected.	
		and a rubric for	
		assessing the	
		written report	
		needs to be	
		developed. A	
		more formalized	
		criteria for the	
		comprehensive	
		exam needs to be	
		established and a	
		rubric to assess	
		the program	
		leorning	
		objectives via this	
		objectives via this	
		exam needs to be	

		developed.	
		One hallmark of	
		that students who	
		that students who	
		nave graduated	
		with an MS often	
		participate in a	
		mentoring	
		program with	
		undergraduate	
		students majoring	
		in Food Science.	
		The close	
		connection	
		between the	
		undergraduate and	
		graduate programs	
		and the	
		willingness of the	
		graduate students	
		to mentor	
		undergraduate	
		students should be	
		highlighted.	
		0 0	
		Another	
		accomplishment	
		of the program is	
		that student work	
		has resulted in	
		seven peer	
		reviewed	
		publications and	
		in numerous	
		nresentations at	
		presentations at	

		national	
		conferences. A	
		list of publication	
		is attached.	

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): <u>https://www.framingham.edu/academics/graduate-studies/graduate-degree-programs/master-of-science-food-and-nutrition/learning-outcomes</u>