Agricultural Sciences

Harold and Pearl Dripps School of Agricultural Sciences

Performance Objective 1 Increase enrollment, persistence, retention, and graduation rates for each program offered by the department.

1 Assessment and Benchmark

Benchmark: Increase enrollment by 5% each year, overall and in each program offered by the department.

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Prior to 2018-2019, the benchmark was increase undergraduate completers and student enrollment at each level and in each concentration.

- AGSC - Agricultural Sciences
  - AGBU - Agribusiness
  - AGED - Agricultural Education Grades 6-12
  - ANSC - Animal Science
  - DIET - Dietetics (inactive effective 201740)
  - EQSC - Equine Science
  - FDTC - Food Technology
  - FNTS - Food and Nutritional Sciences (effective 201740)
  - GAGR - General Agriculture
  - NTRS - Nutritional Sciences (inactive effective 201740)
  - NUDT - Nutrition and Dietetics (effective 201740)
  - PVET - Pre-Veterinary Medicine
- NRCM - Natural Resource Conservation Management
  - EVED - Environmental Science Education Grades 6-12
- SECE - Secondary Education and Teaching
  - EVED - Environmental Science Education Grades 6-12

1.1 Data

2013-2014:

Major	Conc.	Summer						Fall						Spring					
		F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP
AGSC	AGBU	1	3	3	13	20	1	15	16	14	19	64	7	13	15	19	11	58	8
	AGED	1	0	1	0	2	0	4	4	2	0	10	0	4	5	3	1	13	0
	ANSC	2	2	3	12	19	0	15	13	11	23	62	4	11	13	9	23	56	11
	DIET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	EQSC	1	1	0	3	5	1	6	4	2	2	14	0	8	1	4	3	16	2
	FDTC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GAGR	0	2	0	7	9	3	9	2	3	12	26	8	4	4	4	8	20	5
	NTRS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PVET	3	6	2	5	16	1	32	22	7	8	69	1	25	22	8	8	63	2
	(blank)	1	0	1	5	7	0	7	1	3	9	20	0	4	5	2	9	20	0
	Total	***9***	***14***	***10***	***45***	***78***	***6***	***88***	***62***	***42***	***73***	***265***	***20***	***69***	***65***	***49***	***63***	***246***	***28***
NRCM	EVED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(blank)	1	1	6	5	13	0	17	7	12	15	51	3	12	13	9	14	48	10
	Total	***1***	***1***	***6***	***5***	***13***	***0***	***17***	***7***	***12***	***15***	***51***	***3***	***12***	***13***	***9***	***14***	***48***	***10***
SECE	EVED	1	0	1	0	2	0	0	2	1	1	4	0	0	0	1	0	1	0
Grand Total		**10**	**15**	**17**	**50**	**93**	**6**	**105**	**71**	**55**	**89**	**320**	**23**	**81**	**78**	**59**	**77**	**295**	**38**

2014-2015:

Major	Conc.	Summer						Fall						Spring					
		F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP

AGSC	AGBU	2	5	8	8	23	0	18	18	13	19	68	2	16	12	19	23	70	8
	AGED	0	0	0	2	2	0	2	4	4	1	11	0	2	4	3	2	11	7
	ANSC	2	2	2	10	16	0	11	13	9	17	50	7	11	11	10	11	43	0
	DIET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	EQSC	0	1	2	0	3	0	1	2	5	1	9	0	1	3	1	6	11	0
	FDTC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GAGR	1	1	4	5	11	2	3	4	8	8	23	4	3	5	6	7	21	3
	NTRS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PVET	2	4	3	7	16	0	25	19	12	10	66	2	17	17	14	10	58	2
	(blank)	0	1	1	2	4	0	10	5	1	6	22	0	3	6	6	6	21	0
	Total	***7***	***14***	***19***	***33***	***73***	***2***	***70***	***65***	***52***	***62***	***249***	***15***	***52***	***54***	***57***	***63***	***226***	***20***
NRCM	EVED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(blank)	0	4	6	5	15	0	12	10	8	12	42	2	9	8	11	12	20	4
	Total	***0***	***4***	***6***	***5***	***15***	***0***	***12***	***10***	***8***	***12***	***42***	***2***	***9***	***8***	***11***	***12***	***20***	***4***
SECE	EVED	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0
Grand Total		**7**	**18**	**25**	**38**	**88**	**2**	**82**	**76**	**60**	**74**	**291**	**17**	**61**	**62**	**69**	**75**	**247**	**24**

2015-2016:

Major	Conc.	Summer						Fall						Spring					
		F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP
AGSC	AGBU	2	2	7	11	22	1	17	14	21	23	75	14	12	14	12	18	56	8
	AGED	0	0	1	2	3	1	5	1	2	2	10	0	3	1	1	2	7	1
	ANSC	0	3	4	2	9	0	14	2	9	11	39	4	12	4	6	13	35	5
	DIET	0	0	0	0	0	1	0	0	0	0	0	0	12	2	4	4	22	6
	EQSC	0	2	0	5	7	0	5	2	3	5	15	4	3	1	4	1	9	1
	FDTC	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
	GAGR	1	1	3	3	8	2	6	4	8	10	28	2	4	5	6	13	28	7
	NTRS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
	PVET	3	4	3	8	18	0	40	13	14	9	76	1	24	9	16	13	62	3
	(blank)	3	0	3	2	8	0	25	8	5	9	47	0	3	6	6	12	27	0
	Total	***9***	***12***	***21***	***33***	***75***	***5***	***115***	***44***	***62***	***69***	***290***	***28***	***74***	***42***	***55***	***77***	***248***	***35***
NRCM	EVED	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0
	(blank)	0	2	4	6	12	0	11	8	8	14	41	3	11	8	4	16	39	4
	Total	***0***	***2***	***4***	***6***	***12***	***0***	***12***	***8***	***8***	***14***	***42***	***3***	***11***	***9***	***4***	***16***	***40***	***4***
SECE	EVED	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0
Grand Total		**9**	**14**	**25**	**40**	**88**	**5**	**127**	**52**	**70**	**84**	**333**	**31**	**85**	**51**	**59**	**94**	**289**	**39**

2016-2017:

Major	Conc.	Summer						Fall						Spring					
		F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP
	AGBU	5	6	9	13	33	1	18	17	15	18	68	4	15	15	14	23	67	11
	AGED	0	2	1	1	4	0	7	2	1	1	11	0	7	2	1	2	12	0
	ANSC	0	1	3	5	9	0	14	5	4	12	35	6	15	8	6	9	38	3

AGSC	DIET	3	1	3	3	10	0	11	8	5	9	33	0	4	8	5	11	28	0
	EQSC	0	0	1	1	2	0	3	1	3	4	11	0	1	0	2	5	8	0
	FDTC	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	GAGR	1	0	0	10	11	2	8	5	6	11	30	5	4	4	7	7	22	4
	NTRS	0	0	0	0	0	0	3	0	1	1	5	0	1	1	0	2	4	0
	PVET	1	1	5	9	16	0	33	11	17	18	79	2	13	12	10	20	55	8
	(blank)	0	2	0	0	2	0	4	1	1	1	7	0	3	2	1	2	8	0
	Total	***11***	***13***	***22***	***42***	***88***	***3***	***101***	***48***	***53***	***75***	***279***	***17***	***63***	***52***	***46***	***81***	***242***	***26***
NRCM	EVED	0	0	0	0	0	0	0	1	1	2	4	0	0	0	0	0	0	0
	(blank)	1	3	1	10	15	0	7	9	4	15	35	9	6	9	6	9	30	4
	Total	***1***	***3***	***1***	***10***	***15***	***0***	***7***	***10***	***5***	***17***	***39***	***9***	***6***	***9***	***6***	***9***	***30***	***4***
SECE	EVED	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1
Grand Total		**12**	**16**	**23**	**53**	**104**	**3**	**108**	**58**	**58**	**93**	**319**	**26**	**69**	**61**	**52**	**91**	**273**	**31**

2017-2018:

Major	Conc.	Summer						Fall						Spring					
		F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP
AGSC	AGBU	2	6	6	14	28	2	19	16	18	15	68	6	12	15	16	15	58	4
	AGED	0	1	2	0	3	0	3	7	4	2	16	1	3	4	2	3	12	0
	ANSC	1	3	3	5	12	0	7	16	8	9	40	4	3	14	10	11	38	5
	DIET	0	0	0	4	4	0	2	4	1	15	22	1	0	4	3	14	21	9
	EQSC	1	0	0	3	4	0	4	0	0	7	11	2	3	1	0	2	6	0
	FDTC	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
	FNTS	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0
	GAGR	1	1	5	3	10	1	5	3	2	12	22	5	7	7	4	11	29	2
	NTRS	0	1	0	0	1	0	0	1	0	1	2	2	0	1	0	0	1	0
	NUDT	0	0	1	1	2	0	7	3	4	2	16	0	4	4	6	6	20	0
	PVET	1	4	4	7	16	1	46	14	11	8	79	1	26	14	10	8	58	1
	(blank)	0	2	0	1	3	0	5	2	0	2	9	0	0	0	0	0	0	0
	Total	***6***	***19***	***21***	***38***	***84***	***4***	***98***	***67***	***48***	***73***	***286***	***22***	***59***	***69***	***51***	***70***	***249***	***21***
NRCM	EVED	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	0	1	0
	(blank)	1	5	3	7	16	0	11	10	8	10	39	2	7	8	11	12	38	1
	Total	***1***	***5***	***3***	***7***	***16***	***0***	***11***	***12***	***8***	***10***	***41***	***2***	***7***	***9***	***11***	***12***	***39***	***1***
Grand Total		**7**	**24**	**24**	**45**	**100**	**4**	**109**	**79**	**56**	**83**	**327**	**24**	**68**	**78**	**62**	**82**	**288**	**22**

2018-2019:

Major	Conc.	Summer						Fall						Spring					
		F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP	F	S	J	Sr	T	CMP
	AGBU	1	3	9	18	31	2	14	14	14	24	66	9	10	15	13	21	59	7
	AGED	0	0	1	1	2	0	4	1	5	3	13	1	1	5	4	3	13	0
	ANSC	0	1	7	4	12	1	13	10	13	10	46	3	9	12	12	11	44	4
	DIET	0	1	0	4	5	0	0	1	4	10	15	0	0	0	3	8	11	2
	EQSC	0	1	0	2	3	1	2	3	0	2	7	1	1	1	0	1	3	0

AGSC	FNTS	0	0	0	0	0	0	0	0	1	1	2	0	0	1	0	2	3	0
	GAGR	2	1	4	7	14	2	10	5	7	11	33	5	6	2	6	11	25	2
	NTRS	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0
	NUDT	0	2	0	3	5	0	9	10	3	9	31	0	8	10	3	14	35	4
	PVET	1	6	4	7	18	1	37	21	16	9	83	1	24	19	15	17	75	7
	(blank)	1	1	1	0	3	0	0	3	1	0	4	0	0	2	1	0	3	0
	Total	***5***	***16***	***26***	***46***	***93***	***7***	***89***	***68***	***65***	***79***	***301***	***20***	***59***	***67***	***58***	***88***	***272***	***26***
NFSC	DIET	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	1	1	1
NRCM	EVED	0	0	1	0	1	0	0	0	2	0	2	0	0	0	0	0	0	0
	(blank)	1	1	7	8	17	1	8	7	10	13	38	1	7	6	8	17	38	6
	Total	***1***	***1***	***8***	***8***	***18***	***1***	***8***	***7***	***12***	***13***	***40***	***1***	***7***	***6***	***8***	***17***	***38***	***7***
Grand Total		**6**	**17**	**34**	**54**	**111**	**8**	**97**	**75**	**77**	**94**	**343**	**21**	**66**	**73**	**66**	**106**	**311**	**33**

Percentage Change between 2017-2018:

Major	Fall	Total	% Change
AGSC	2017	286	5.244%
	2018	301	
NRCM	2017	41	-2.439%
	2018	40	
Total	**2017**	**327**	**4.892%**
	2018	**343**	

1.1.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:
Based on the data provided, over the past five years the average annual number of program completers is 58. With a high of 77 in 2013-2014 and a low of 46 in 2016-2017. Fall enrollments continue to be strong with an average of 317 students enrolled, (high of 369 in 2013 and low of 290 in 2015). The agriculture industry has a considerable need for graduates in all fields of agricultural sciences, which makes the program attractive to incoming students.

2018-2019:
Enrollment and students completing the program continue to be strong.

2 Assessment and Benchmark

Benchmark: Increase graduate enrollment and completers in each concentration.

- ECSA - Environmental and Chemical Sciences
  - AGSC - Agricultural Sciences
  - ENSC - Environmental Science

2.1 Data

Graduate Enrollment:

Major	Conc.	2013-2014			2014-2015			2015-2016			2016-2017			2017-2018		
		U	F	S	U	F	S	U	F	S	U	F	S	U	F	S
ECSA	AGSC	2	13	11	5	16	16	7	15	13	6	16	15	7	14	12
	ENSC	2	7	12	2	11	12	4	7	6	0	5	6	2	5	4
Total		**4**	**20**	**23**	**7**	**27**	**28**	**11**	**22**	**19**	**6**	**21**	**21**	**9**	**19**	**16**

Major	Conc.	2018-2019			2019-2020			2020-2021			2021-2022			2022-2023		
		U	F	S	U	F	S	U	F	S	U	F	S	U	F	S

ECSA	AGSC	4	9	8												
	ENSC	0	6	3												
Total		**4**	**15**	**11**												

Graduate Completers:

Major	Conc.	2013-2014			2014-2015			2015-2016			2016-2017			2017-2018		
		U	F	S	U	F	S	U	F	S	U	F	S	U	F	S
ECSA	AGSC	0	3	2	2	2	1	1	2	2	1	6	2	1	1	1
	ENSC	0	0	0	0	1	4	0	1	1	0	0	1	0	1	1
Total		**0**	**3**	**2**	**2**	**3**	**5**	**1**	**3**	**3**	**1**	**6**	**3**	**1**	**2**	**2**

Major	Conc.	2018-2019			2019-2020			2020-2021			2021-2022			2022-2023		
		U	F	S	U	F	S	U	F	S	U	F	S	U	F	S
ECSA	AGSC	1	2	2												
	ENSC	0	2	0												
Total		**1**	**4**	**2**												

2.1.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:
From the data provided, 253 students enrolled in graduate programs in the Environmental and Chemical Sciences (agricultural and environmental science concentrations) over the past five years (2013-2017) for an average of 51 students per year with a high of 62 students in 2014-2015 and a low of 44 students in 2017-2018. Over the same time frame there was a total of 37 completers for an average of seven per year with a high of 10 in 2014-2015 and 2016-2017 and a low of five in 2013-2014 and 2017-2018.

Graduate enrollment continues to remain strong. Losing faculty and increased teaching workloads may be a factor in a lower number of students enrolled in graduate school. In addition, a vibrant agriculture industry with attractive entry salaries for students with a BS may be deterring students from continuing education past the BS.

2018-2019:
Graduate student numbers continue to hold steady as do students completing the degree.

3 Assessment and Benchmark

Benchmarks:

- A persistence rate (retained students from fall Y1 to spring Y1) of 85%.
- A retention rate of 70% from Y1 to Y2.
- A retention rate of 55% from Y2 to Y3.
- A retention rate of 45% from Y3 to Y4.
- A 4-year graduation rate of 35%.
- A 5-year graduation rate of 40%.
- A 6-year graduation rate of 45%.

Major:

- AGSC - Bachelor of Science in Agricultural Sciences
- NFSC - Bachelor of Science in Nutrition and Food Sciences
- NRCM - Bachelor of Science in Natural Resource Conservation Management

3.1 Data

2012:

Major	Cohort Size	Same Major?	Persistence Rate		Retention Rate						Graduation Rate					
					Y1 to Y2		Y1 to Y3		Y1 to Y4		4-Year		5-Year		6-Year	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%

AGSC	75*	Same	60	80.0	39	52.0	28	37.3	27	36.0	17	22.7	23	30.7	24	32.0
		Changed	7	9.3	9	12.0	11	14.7	8	10.7	6	8.0	6	8.0	8	10.7
		Total	***67***	***89.3***	***48***	***64.0***	***39***	***52.0***	***35***	***46.7***	***23***	***30.7***	***29***	***38.7***	***32***	***42.7***
NFSC	9	Same	6	66.7	2	22.2	2	22.2	2	22.2	2	22.2	2	22.2	2	22.2
		Changed	3	33.3	5	55.6	4	44.4	3	33.3	2	22.2	3	33.3	3	33.3
		Total	***9***	***100***	***7***	***77.8***	***6***	***66.7***	***5***	***55.6***	***4***	***44.4***	***5***	***55.6***	***5***	***55.6***
NRCM	9	Same	7	77.8	5	55.6	5	55.6	4	44.4	4	44.4	4	44.4	4	44.4
		Changed	2	22.2	2	22.2	3	33.3	3	33.3	1	11.1	3	33.3	3	33.3
		Total	***9***	***100***	***7***	***77.8***	***8***	***88.9***	***7***	***77.8***	***5***	***55.6***	***7***	***77.8***	***7***	***77.8***
Total	93	Same	73	8.5	46	49.5	35	37.6	33	35.5	23	24.7	29	31.2	30	32.3
		Changed	12	12.9	16	17.2	18	19.4	14	15.1	9	9.7	12	12.9	14	15.1
		Total	**85**	**91.4**	**62**	**66.7**	**53**	**57.0**	**47**	**50.5**	**32**	**34.4**	**41**	**44.1**	**44**	**47.3**

*2 students were previously undeclared before declaring AGSC.

2013:

Major	Cohort Size	Same Major?	Persistence Rate		Retention Rate						Graduation Rate					
					Y1 to Y2		Y1 to Y3		Y1 to Y4		4-Year		5-Year		6-Year	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%
AGSC	61*	Same	54	88.5	38	62.3	27	44.3	25	41.0						
		Changed	4	6.6	7	11.5	6	9.8	9	14.8						
		Total	***58***	***95.1***	***45***	***73.8***	***33***	***54.1***	***34***	***55.7***						
NFSC	10**	Same	7	70.0	5	50.0	3	30.0	2	20.0						
		Changed	3	30.0	3	30.0	5	50.0	4	40.0						
		Total	***10***	***100***	***8***	***80.0***	***8***	***80.0***	***6***	***60.0***						
NRCM	8	Same	6	75.0	4	50.0	4	50.0	2	25.0						
		Changed	1	12.5	1	12.5	1	12.5	1	12.5						
		Total	***7***	***87.5***	***5***	***62.5***	***5***	***62.5***	***3***	***37.5***						
Total	79	Same	67	84.8	47	59.5	34	43.0	29	36.7						
		Changed	8	10.1	11	13.9	12	15.2	14	17.7						
		Total	**75**	**94.9**	**58**	**73.4**	**46**	**58.2**	**43**	**54.4**						

*1 student was previously undeclared before declaring AGSC.

**1 student was previously undeclared before declaring NFSC.

2014:

Major	Cohort Size	Same Major?	Persistence Rate		Retention Rate						Graduation Rate					
					Y1 to Y2		Y1 to Y3		Y1 to Y4		4-Year		5-Year		6-Year	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%
AGSC	53	Same	44	83.0	32	60.4	25	47.2	18	34.0						
		Changed	4	7.5	7	13.2	8	15.1	7	13.2						
		Total	***48***	***90.6***	***39***	***73.6***	***33***	***62.3***	***25***	***47.2***						
NFSC	8	Same	4	50.0	3	37.5	3	37.5	2	25.0						
		Changed	2	25.0	2	25.0	0	0.0	0	0.0						
		Total	***6***	***75.0***	***5***	***62.5***	***3***	***37.5***	***2***	***25.0***						
		Same	3	50.0	2	33.3	1	16.7	0	0.0						

NRCM	6	Changed	2	33.3	1	16.7	1	16.7	1	16.7							
		Total	***5***	***83.3***	***3***	***50.0***	***2***	***33.3***	***1***	***16.7***							
Total	67	Same	51	76.1	37	55.2	29	43.3	20	29.9							
		Changed	8	11.9	10	14.9	9	13.4	8	11.9							
		Total	**59**	**88.1**	**47**	**70.1**	**38**	**56.7**	**28**	**41.8**							

2015:

Major	Cohort Size	Same Major?	Persistence Rate		Retention Rate						Graduation Rate					
					Y1 to Y2		Y1 to Y3		Y1 to Y4		4-Year		5-Year		6-Year	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%
AGSC	78	Same	57	73.1	39	50.0	27	34.6	22	28.2						
		Changed	7	9.0	9	11.5	12	15.4	8	10.3						
		Total	***64***	***82.1***	***48***	***61.5***	***39***	***50.0***	***30***	***38.5***						
NRCM	7	Same	5	71.4	2	28.6	2	28.6	2	28.6						
		Changed	1	14.3	2	28.6	1	14.3	1	14.3						
		Total	***6***	***85.7***	***4***	***57.1***	***3***	***42.9***	***3***	***42.9***						
Total	85	Same	62	72.9	41	48.2	29	34.1	24	28.2						
		Changed	8	9.4	11	12.9	13	15.3	9	10.6						
		Total	**70**	**82.4**	**52**	**61.2**	**42**	**49.4**	**33**	**38.8**						

2016:

Major	Cohort Size	Same Major?	Persistence Rate		Retention Rate						Graduation Rate					
					Y1 to Y2		Y1 to Y3		Y1 to Y4		4-Year		5-Year		6-Year	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%
AGSC	72	Same	51	70.8	41	56.9	32	44.4								
		Changed	8	11.1	16	22.2	18	25.0								
		Total	***59***	***81.9***	***57***	***79.2***	***50***	***69.4***								
NRCM	4	Same	3	75.0	2	50.0	2	50.0								
		Changed	1	25.0	1	25.0	1	25.0								
		Total	***4***	***100***	***3***	***75.0***	***3***	***75.0***								
Total	76	Same	54	71.1	43	56.6	34	44.7								
		Changed	9	11.8	17	22.4	19	25.0								
		Total	**63**	**82.9**	**60**	**78.9**	**53**	**69.7**								

2017:

Major	Cohort Size	Same Major?	Persistence Rate		Retention Rate						Graduation Rate					
					Y1 to Y2		Y1 to Y3		Y1 to Y4		4-Year		5-Year		6-Year	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%
AGSC	75	Same	61	81.3	49	65.3										
		Changed	9	12.0	10	13.3										
		Total	***70***	***93.3***	***59***	***78.7***										
NRCM	9	Same	7	77.8	2	22.2										
		Changed	1	11.1	4	44.4										
		Total	***8***	***88.9***	***6***	***66.7***										

Total	84	Same	68	81.0	51	60.7										
		Changed	10	11.9	14	16.7										
		Total	**78**	**92.9**	**65**	**77.4**										

2018:

Major	Cohort Size	Same Major?	Persistence Rate		Retention Rate						Graduation Rate					
					Y1 to Y2		Y1 to Y3		Y1 to Y4		4-Year		5-Year		6-Year	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%
AGSC	72	Same	56	77.8												
		Changed	8	11.1												
		Total	***64***	***88.9***												
NRCM	6	Same	3	50.0												
		Changed	1	16.7												
		Total	***4***	***66.7***												
Total	78	Same	59	75.6												
		Changed	9	11.5												
		Total	**68**	**87.2**												

2019:

Major	Cohort Size	Same Major?	Persistence Rate		Retention Rate						Graduation Rate					
					Y1 to Y2		Y1 to Y3		Y1 to Y4		4-Year		5-Year		6-Year	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%
AGSC		Same														
		Changed														
		Total														
NRCM		Same														
		Changed														
		Total														
Total		Same														
		Changed														
		Total														

3.1.1 Analysis of Data and Plan for Continuous Improvement

2018-2019:

Performance Objective 2 Faculty and students will engage in campus, community, and scholarly activities on behalf of the University.

1 Assessment and Benchmark

Benchmark: Faculty members will engage in service to the University through participation in department and/or University committees.

1.1 Data

2017-2018:
All Dripps School of Agricultural Sciences faculty members participated in department and/or University committees. The committees included: faculty and staff hiring committees, tenure and promotion, internship, curriculum, disciplinary, faculty senate, and building.

2018-2019:
All Dripps School of Agricultural Sciences faculty members participated in department and/or University committees. The committees included: faculty and staff hiring committees, tenure and promotion, internship, curriculum, disciplinary, faculty senate, and building.

1.1.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:
All faculty are encouraged to serve on departmental and/or University committees. This enables faculty to learn about departmental and University activities and to share this information amongst colleagues. Our faculty have been receptive to participating in such committees.

2018-2019:
All faculty are encouraged to serve on departmental and/or University committees. This enables faculty to learn about departmental and University activities and to share this information amongst colleagues. Our faculty have been receptive to participating in such committees. With new retention and recruiting efforts on campus, there are opportunities for our faculty to interact and collaborate with other colleges and departments.

2 Assessment and Benchmark

Benchmark: Faculty members will engage in service to the University through participation in community activities.

2.1 Data

2015-2016:
- 15 field days, seminars, or clinics were conducted in 2015-2016, including subject areas of artificial insemination, livestock judging, small ruminant management, non-ruminant management, beef cattle production, and forage and genetic evaluation.
- Hosted a beef cattle symposium.
- Hosted area career development events.
- Hosted the Annual Fuller Farm Field Day.
- Hosted youth judging and skills clinics and shows.
- Received a community partner grant with SASOL to plant trees throughout Calcasieu parish.
- Hosted parish and area FFA speaking contest.

2016-2017:
- Hosted several community and recruitment activities throughout the year.
- Area, district, parish leadership development events.
- Area, district, parish career development events.
- State FFA livestock judging contest.
- Hosted 12 Greek students from the American Farm School for three-week agrotourism program.

2017-2018:
- Hosted community, youth development and recruitment events throughout the year.
- Hosted Poultry and Equine industry professionals from across the country to speak to our students regarding careers and internships.
- Hosted area, district and parish leadership and career development events.
- Accompanied students to International Poultry and Processing Expo, State livestock shows, and All East Collegiate livestock evaluation contest.
- Hosted the 2017 Rodeo Hall of Fame.
- Hosted the 2017 Beefmaster show and sale.
- Led 10 Greek students and one advisor from the American farm school on three-week agrotourism event.
- Provided PQA training to state youth and adults.
- Faculty members also served as committee members or officers in civic organizations (e.g. Calcasieu Cattlemen's ASSN, Beefmaster breeders ASSN, Ducks Unlimited, Louisiana Pork Producers ASSN etc.), giving presentations at local schools, judging science fairs, holding on-site demonstrations and learning activities for local school children, and answering scientific questions asked by local residents.

2018-2019:
- Hosted community, youth development, and recruitment events throughout the year.
- Hosted area, district, and parish leadership and career development events for FFA and 4-H students.

- Hosted the State FFA Livestock Judging Contest
- Accompanied students to International Poultry and Processing Expo, State livestock shows, and All East Collegiate livestock evaluation contest.
- Hosted the 2018 Rodeo Hall of Fame.
- Hosted the 2018 Beefmaster show and sale.
- Made presentations at several meetings throughout the state at professional agriculture meetings (e.g. LA AG Industries, LA Cattleman's ASSN, LA FFA)
- Led 10 Greek students and one advisor from the American Farm School on three-week agrotourism event.
- Provided PQA training to state youth and adults.
- Completed the 1000 Trees in 1000 Days project with SASOL.
- Faculty members also served as committee members or officers in civic organizations (e.g. Calcasieu Cattlemen's ASSN, Beefmaster breeders ASSN, Ducks Unlimited, Louisiana Pork Producers ASSN etc.), giving presentations at local schools, judging science fairs, holding on-site demonstrations and learning activities for local school children, and answering scientific questions asked by local residents.

2.1.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:
Community outreach is a strong asset of our department. All faculty members are expected to participate and are encouraged to create new events in their area of expertise.

2017-2018:
Community outreach is a strong asset to the department. Part of our mission is to disseminate current research and information to producers and consumers. Working with youth in the community and throughout the state provides potential recruiting opportunities for the university. We will continue to support outreach by providing classes, seminars, field days, etc.

2018-2019:
We continue to support community outreach in our activities— we have made progress with many state industries and look to further nurture these relationships.

3 Assessment and Benchmark

Benchmark: Faculty members will engage in scholarly activities including giving presentations at professional meetings and publishing peer-reviewed journal articles, books, and book chapters.

3.1 Data

2017-2018:
Faculty and/or graduate/undergraduate students presented (abstracts and oral) research at the following association meetings:

- American Society of Animal Science
- International Food Technologist
- Louisiana Academy of Sciences
- Louisiana Association of Professional Biologists
- ULS Research Symposium

In addition, a peer-reviewed journal article was published in the Journal of Food Research.

2018-2019:
The following scientific presentations were completed by faculty and students in Dripps School of Agricultural Sciences:
-Louisiana Association of Professional Biologists and the Wildlife Society Louisiana Chapter 2019 Fall Symposium

Site Selection of Louisiana Bats in Alternative Roost Structures
Christina Keathley, A. Nikki Anderson
Evaluating Black-bellied Whistling-duck (Dendrocygna autumnalis) Nest Box Use and Nest Success in Southwestern Louisiana.
Christopher S. Shipp, Joseph R. Marty, J. Taylor Gibson
An Evaluation of License Sales and the Use of Alligator Hides Over Three Decades in Louisiana
Andrew C. Kay and Angela R. Guidry
Mourning Dove Banding (Zenaida macroura) Program at Rockefeller Wildlife Refuge

Miah S. Lognion, Lane J. Hudspeth, Andrew M. Langley, Jonathan K. Deshotels and James M. Whitaker

PREY SELECTION BY THE LOUISIANA PINE SNAKE (PITUOPHIS RUTHVENI) IN RELATION TO PREY AVAILABILITY

Alyssa Broussard1, Eddie Lyons1 and Justin Hoffman2

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2Department of Biology, McNeese State University, Lake Charles, LA, jhoffman@mcneese.edu

INFLUENCE OF VEGETATION AND SOIL TEXTURE ON THE DENSITY OF BAIRD'S POCKET GOPHER (GEOMYS BREVICEPS) IN LOUISIANA

Alexandria E. Medine1, Eddie K. Lyons1 and Justin D. Hoffman2

1Harold and Pearl Dripps School of Agricultural Sciences, McNeese State University, Lake Charles, LA

2Department of Biology, McNeese State University, Lake Charles, LA

SITE SELECTION OF LOUISIANA BATS IN ALTERNATIVE ROOST STRUCTURES

Christina Keathley, A. Nikki Anderson

Louisiana Department of Wildlife and Fisheries, Baton Rouge, LA 70808

-2019 American Society of Animal Science- Canadian Society of Animal Science Annual Meeting

Late Season Sorghum Produced for Silage in Southwest Louisiana

William Storer, Karyle Crawford, and Luke Billeaudeaux

Harold and Pearl Dripps School of Agricultural Sciences, McNeese State University

-2019 International Food Technologist annual Meeting

Effect of Three Novel Powders: Cricket, Pea, and Cornish Hen on 3D-Printed Chatamari

Nila Pradhananga, Wannee Tangkham, and Frederick LeMieux

Harold and Pearl Dripps School of Agricultural Sciences, McNeese State University

3.1.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:

Most of the faculty are involved in some research activities. Faculty are encouraged to present research data orally or written when appropriate. Our focus has been on undergraduate research and while this is valuable, it takes longer to accumulate adequate data to publish in reputable journals. We will continue to encourage and support faculty in their research activities and reward these activities.

2018-2019:

We will continue to encourage research. We are writing grants that are inclusive for all faculty members. Hopefully, we will be able to include all interested faculty members in these projects.

3.2 Data

2017-2018:

One peer-reviewed journal article was published in the Journal of Food research: 'Microbial, Physical and Sensory Properties of Three Novel Yogurt Flavors: Molasses, Mulberry and Amaretto', Tangkham & LeMieux.

2018-2019: Three peer-reviewed articles were published-

Huntzinger, C. C, I. J. Louque, Jr.,W. Selman, P. V. Lindeman, and E. K. Lyons. 2019. Distribution and abundance of the alligator snapping turtle (*Macrochelys temmenckii*) in southwestern Louisiana. Southeastern Naturalist 18:65-75.

Soileau, J.M., E.K. Lyons, B. Chung, J. Hoffman, and F.M. LeMieux. 2018. Defining Success criteria for *Spartina alterniflora* Restoration Projects in Southwestern Louisiana. Southeastern Naturalist 17(4): 541-553.

Tangkham, W., and F.M. LeMieux. 2018. Effects of Promolux Platinum LED on Shelf-life of Ground Beef Patties. JFR; Vol 7, No 6

3.2.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:

Continue to encourage quality research that is suitable for publication. This research should include undergraduate and graduate students. When available provide funding and other resources to facilitate research that can be published.

2018-2019:

We published three papers this year. We have several papers in review and hope to double these scientific publications next year. We will continue to promote and encourage quality research that is suitable for publication. This research should include undergraduate and graduate students. When available, provide funding and other resources to facilitate research that can be published.

4 Assessment and Benchmark

Benchmark: Faculty will participate in professional societies and attend professional meetings.

4.1 Data

2017-2018:
Faculty in the School of Agricultural Sciences were members of the following professional societies and attended the respective annual meeting:
1) American Meat Science Association
2) American Society of Animal Science
3) International Food Technologist
4) Louisiana Academy of Nutrition and Dietetics
5) Louisiana Association of Professional Biologists
6) Louisiana Academy of Sciences
7) Louisiana Cattlemen's Association
8) Louisiana Pork Producers Association
9) Poultry Science Association

Eddie Lyons served as president of (5).
William Storer served as district vice president of (7).
Research was presented at (2,3,4,5,6).

2018-2019:
Faculty in the School of Agricultural Sciences were members of the following professional societies and attended the respective annual meeting:
1) American Meat Science Association
2) American Society of Animal Science
3) International Food Technologist
4) Louisiana Academy of Nutrition and Dietetics
5) Louisiana Association of Professional Biologists
6) Louisiana Academy of Sciences
7) Louisiana Cattlemen's Association
8) Louisiana Pork Producers Association
9) Poultry Science Association

Eddie Lyons served as president of (5).
Research was presented at (2,3,4,5,6).

4.1.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:
The department will continue to encourage and provide financial support for faculty to join societies and travel to annual meetings.

2018-2019:
The department will continue to encourage and provide financial support for faculty to join societies and travel to annual meetings.

5 Assessment and Benchmark

Benchmark: Students will engage in undergraduate research.

5.1 Data

Students in the department that participated in the Undergraduate Research Symposium at McNeese and represented McNeese at the state meeting:

Academic Year	# of students

2014-2015	4
2015-2016	4
2016-2017	5*
2017-2018	4*
2018-2019	6*

*McNeese did not have a campus research symposium; students and faculty participated in the ULS research symposium.

5.1.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:
We introduce students to undergraduate research at the freshmen level through AGRI 111, ANSC 101, and AGRI 101. We have undergraduates that have completed this experience give a presentation in class and discuss their experience. Students enrolled in ANSC 101 complete a group project that measures linear growth of animals. We discuss nutrient requirements and experimental methods in the class. During the sophomore and junior year we advertise possible undergraduate projects for the students. We encourage and have been successful in recruiting students to partake in these activities.

2018-2019:
We increased the number of undergraduate presenters this past year and look forward to increasing this number again this upcoming year. We had two of our students participate in the scientific presentation competition at national meetings.

We introduce students to undergraduate research at the freshmen level through AGRI 111, ANSC 101, and AGRI 101. We have undergraduates that have completed this experience give a presentation in class and discuss their experience. Students enrolled in ANSC 101 complete a group project that measures linear growth of animals. We discuss nutrient requirements and experimental methods in the class. During the sophomore and junior year, we advertise possible undergraduate projects for the students. We encourage and have been successful in recruiting students to partake in these activities.

We will continue to spotlight these students and their accomplishments in scientific research and communications.

Performance Objective 3 Graduates will attain employment related to their discipline and/or pursue additional professional education.

1 Assessment and Benchmark

Benchmark: 60% of degree completers will be gainfully employed in an agriculture-related industry within one year.

1.1 Data

Academic Year	Graduates currently employed with a job in agriculture	
	#	%
2013-2014	38/78	49%
2014-2015	40/70	57%
2015-2016	40/70	57%
2016-2017	40/63	63%
2017-2018	32/50	64%
2018-2019	34/62	55%

1.1.1 Analysis of Data and Plan for Continuous Improvement

2015-2016:

We hosted a job fair for agriculture students this year. We had representatives from seed, feed, fertilizer, lending agencies, consulting firms, pharmaceuticals and graduate schools on hand. We will continue to organize and hold this event. Students and industry representatives were very pleased.

2016-2017:
Continue to encourage students to participate in industry internships. Provide industry speakers, career fairs, and industry expo opportunities for our students.

2017-2018:
Students in the Dripps School of Agricultural Sciences are successful in securing jobs in their field of study. Continue to work with industry and our students to provide internship and job opportunities. The Dripps School of Agricultural Sciences will host the annual agriculture career fair during the 2018 fall semester. Prior to the career fair a professional development seminar will be held to instruct students on resume preparation and interviewing skills. In addition, we will continue to bring students to the international poultry and processing expo where they will interview for internships and permanent employment with agriculture companies. Resume building is embedded in several (AGRI 111, AGRI 340, AGRI 441) required and elective (AGRI 461, NRCM 499) agriculture courses.

2018-2019:
We will continue to provide information to help get our students/graduates positions in their field of choice. We provide numerous professional interaction opportunities and career building exercises. We continue to place over 50% of our students in agricultural related positions.

2 Assessment and Benchmark

Benchmark: No less than five degree completers will be admitted to graduate or professional schools.

2.1 Data

Academic Year	Students that have been/will be admitted to graduate or professional school	
	#	%
2013-2014	7	-
2014-2015	10	-
2015-2016	5	-
2016-2017	14	-
2017-2018	17	-
2018-2019	19	31

2.1.1 Analysis of Data and Plan for Continuous Improvement

2015-2016:
We hosted a job fair for agriculture students this year. We had representatives from seed, feed, fertilizer, lending agencies, consulting firms, pharmaceuticals and graduate schools on hand. We will continue to organize and hold this event. Students and industry representatives were very pleased.

2016-2017:
We had six students admitted to veterinary school and several others admitted to graduate school. Undergraduate research is valuable in educating students and piquing their research interest.

2017-2018:
Data includes 10 dietetics interns that are admitted to graduate school.

More students are choosing to pursue graduate and/or professional schools after completing undergraduate degrees in agricultural sciences. Through personal communication with these students and colleagues at the respective institutions our students are well prepared and successful in their educational pursuits.

2018-2019:
We have been successful in placing/preparing students for graduate studies and professional schools. Our number of students entering the graduate/professional schools continue to increase.

Performance Objective 4 **Provide a comprehensive curriculum that reflects disciplinary foundations and remains responsive to contemporary developments, student and workforce demand, and University needs and aspirations.**

1 Assessment and Benchmark

Benchmark: Program faculty will meet each academic year to review student progress, curricular offerings, and appropriate professional contacts and opportunities.

1.1 Data

2017-2018:
This is a new assessment that will begin being tracked in 2018-2019.

2018-2019:
College of Agricultural Sciences faculty met in Spring 2019 to discuss student progress and academic programs. Goals, student success, coursework, advising, and retention were discussed during this meeting.

1.1.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:
No data available.

2018-2019:
Faculty will meet a minimum of once per semester to discuss academic programs and student retention.

2 Assessment and Benchmark

Benchmark: 50% of the faculty will write teaching-related grant proposals, which will enhance teaching in the classroom.

2.1 Data

Academic Year	Faculty that submitted teaching related grants	
	#	%
2013-2014	9/12	75%
2014-2015	5/10	50%
2015-2016	5/12	42%
2016-2017	6/12	50%
2017-2018	6/12	50%
2018-2019	6/12	50%

2.1.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:
A faculty meeting will be held in which faculty who have been successful in obtaining teaching-related grants will discuss grant writing with faculty who have either not submitted grants or who have submitted but not been awarded grants.

2018-2019:
Faculty submitted grants to improve classroom instruction and experiential learning. Three faculty members received grants to improve teaching (e.g. equipment to demonstrate embryo growth, live animals to demonstrate animal growth, lab and farm equipment, AV equipment, etc.). Faculty will continue to support improvement in classroom learning. Program leaders will encourage collaborative grant writing and work to improve the learning environment.