

Agricultural Sciences

Harold and Pearl Dripps School of Agricultural Sciences

AGSC	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	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	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
	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

AGSC	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

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.

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

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

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.

3 Assessment and Benchmark

Benchmark: Strive for an average retention rate of 70%.

- AGED - Agricultural Education Grades 6-12
- AGSC - Agricultural Sciences
- ECSA - Environmental and Chemical Sciences
- FACS - Family and Consumer Services
- NFSC - Nutrition and Food Sciences
- NRCM - Natural Resource Conservation Management
- SECE - Secondary Education and Teaching
- WMGT - Wildlife Management

3.1 Data

2013-2014:

Major	# of retained students	Retention rate
AGED	0	0.00%
AGSC	153	68.61%
ECSA	12	85.71%
FACS	1	50.00%
NFSC	19	54.29%
NRCM	29	72.50%
SECE	0	0.00%
WMGT	0	0.00%

2014-2015:

Major	# of retained students	Retention rate
AGSC	149	69.30%
ECSA	15	55.56%
NFSC	22	56.41%
NRCM	27	69.23%
SECE	1	100.00%

2015-2016:

Major	# of retained students	Retention rate
AGSC	148	61.16%
ECSA	12	70.59%
NFSC	15	83.33%
NRCM	24	61.54%
SECE	1	100.00%

2016-2017:

Major	# of retained students	Retention rate
AGSC	145	61.44%
ESCA	10	76.92%
NFSC	8	72.73%
NRCM	16	61.54%

3.1.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:

4 Assessment and Benchmark

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

4.1 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%	6	8.0%	1	1.3%
		Changed	7	9.3%	9	12.0%	11	14.7%	8	10.7%	6	8.0%	0	0.0%	2	2.7%
		Total	67	89.3%	48	64.0%	39	52.0%	35	46.7%	23	30.7%	6	8.0%	3	4.0%
NFSC	9	Same	6	66.7%	2	22.2%	2	22.2%	2	22.2%	2	22.2%	0	0.0%	0	0.0%
		Changed	3	33.3%	5	55.6%	4	44.4%	3	33.3%	2	22.2%	1	11.1%	0	0.0%
		Total	9	100%	7	77.8%	6	66.7%	5	55.6%	4	44.4%	1	11.1%	0	0.0%
NRCM	9	Same	7	77.8%	5	55.6%	5	55.6%	4	44.4%	4	44.4%	0	0.0%	0	0.0%
		Changed	2	22.2%	2	22.2%	3	33.3%	3	33.3%	1	11.1%	2	22.2%	0	0.0%

Total	Same															
	Changed															
	Total															

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		Same														
		Changed														
		Total														
NFSC		Same														
		Changed														
		Total														
NRCM		Same														
		Changed														
		Total														
Total		Same														
		Changed														
		Total														

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														
NFSC		Same														
		Changed														
		Total														
NRCM		Same														
		Changed														
		Total														
Total		Same														
		Changed														
		Total														

4.1.1 Analysis of Data and Plan for Continuous Improvement

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.

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.

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.

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.

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.

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.

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.

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.

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).

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.

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*

*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.

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%

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.

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	-

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.

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 to meet two times per 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.

1.1.1 Analysis of Data and Plan for Continuous Improvement

2017-2018:

No data available.

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%

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.