ATTACHMENT 1E

ADD, CHANGE OR DELETE UNIT, PROGRAM REQUIREMENTS, OR ACADEMIC POLICIES

Complete this form consistent with the instructions in Academic Policy 1622.20. Use the form to add, change, or delete a program or unit or to change program policies. Proposed additions and changes must be consistent with Academic Policies 1100.40 and 1621.10 and any other policies which apply.

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Department / Program Chair		Date Submitted		Graduate Council Chair		Date
College Dean		Date		Faculty Senate Chair		Date
Honors College Dean		Date		Provost		Date
Core Curriculum Committee		Date		Board of Trustees Approval/Notification Date		
University Course and Programs Committee		Date		Arkansas Higher Education Coordinating Board Approval/Notification Date		
Vice Provost for Distance	e Education	Date				
(for on-line programs) SECTION II: Pro	file Data - Require	ed Inform	nation and N	ame Change Info	rmation	
Academic Unit:	Major/Field o ■ Major/Field o ■ ■ Major/Field o ■ □ ■ □ ■ □	f Study	☐ Minor	□Other Unit _	Policy	
Level:	☑ Undergraduat	e	☐ Graduate	☐ Law	Effective Catalog Year 2014	4
Program changes are e	effective with the next	t available	catalog. See A	Academic Policy Ser	ries 1622.20	
Current Name	BSA, Animal So	<u>cience</u>				
College, School, Division AFLS			Department Code ANSC			
Current Code (6 digit Alpha)ANSCBS		<u>S</u>	Proposed Code (6 digit Alpha) Prior approval from the Office of the Registrar is required.			
□Interdisciplinary Program			CIP Code <u>01.0901</u> Prior assignment from Office of Institutional Research is required.			
Proposed Name When a program name is ch	anged, enrollment of curre	ent students re	eflects the new nar	me.		
SECTION III: Add	l a New Program/	Unit				
☐ For new program p 'Criteria and Procedure http://www.adhe.edu/divises	es for Preparing Prop	osals for N	ew Programs		r a full program proposal as o	described in
	roposal uses courses e of the dean of that a				t college dean's office has be	en notified. T
SECTION IV: Elir	ninate an Existing	Program	/Unit			
Code/Name	Effective Catalog	g Year	<u></u>			
No new students admi			Year: 2ram until Tei	rm: Year:		

SECTION VI: Justification

Justify this change and state its likely effect on any other degree program (including those outside the school or college). Identify any program or program components (other than courses) to be eliminated if this program is implemented. (Program and course change forms must also be submitted for such related changes.)

Change Total Hours (Complete all sections of the form except "Proposed Name" in II, section III, and section IV.)

The changes proposed have been brought forward and approved by the faculty of the Department of Animal Science. These changes will allow students flexibility in meeting educational and career goals and will present a clearer path for students to follow through the degree program. The availability of the three concentrations will also improve and simplify student advising.

SECTION VII: Catalog Text and Format

☑ Change in Program Policies

In the box below, insert the current catalog text which is to be changed, with changes highlighted with the color yellow. Include all proposed changes identified in Section V. Only changes explicitly stated in Section V will be considered for approval by the University Course and Programs Committee, the Graduate Council and the Faculty Senate. If you are proposing a new program, give proposed text with all of the elements listed below. If you are proposing modified text, include these elements as appropriate.

Include the following elements, in order, in the catalog text for proposed undergraduate program(s) or program changes:

- State complete major/program name
- Briefly define or describe the major/program or discipline.
- Identify typical career goals or paths for graduates. (Optional)
- State admission requirements (if any) for entry or entry into upper/advanced level of major/program.
- Identify location in catalog of university, college/school, and department/program requirements which the student must meet in addition to hours in the major, but do not restate these requirements.
- State course requirements in the major and any allied areas, giving number of hours and specific courses; specify electives or elective areas and give numbers of hours and courses in elective pools or categories; identify any other course requirements.
- State any other requirements (required GPA, internship, exit exam, project, thesis, etc.).
- Identify name and requirements for each concentration (if any).
- Specify whether a minor or other program component is allowed or required and provide details.
- State eight-semester plan requirements

For minors, state requirements in terms of hours, required courses, electives, etc.

For graduate program/units, include elements (as needed) parallel to those listed for undergraduate programs above.

For Law School program/units, prepare text consistent with current catalog style.

For centers, prepare text consistent with current catalog style.

The animal science major offers three areas of concentration is designed to provide the scientific and technical education to prepare students for positions of leadership and responsibility. Students gain valuable experience pertaining to the production of beef and dairy cattle, swine, horses, sheep, and companion animals. In addition, extensive study is offered in the specialized areas of animal health, breeding and genetics, meat science, nutrition, and physiology.

Students majoring in animal science are prepared for a variety of careers. Pre-veterinary, pre-medical, and pre-professional course requirements may be fulfilled while meeting degree requirements. Specific career opportunities include positions and services related to the production, merchandising, processing and distribution of meat, milk, and related products. Additional opportunities include field persons, farm and herd managers, and other agribusiness-related positions. With additional academic training, animal science majors may become extension livestock specialists, nutritionists, geneticists, and physiologists.

The General Animal Science Concentration is a science-based degree program designed for students desiring a broader general background in animal science and offers students the greatest degree of flexibility in adapting their degree program to a wide variety of career paths. It offers a larger list of elective classes and opportunity the minors in other disciplines.

The Pre-Professional/Science Concentration is designed primarily for students who intend to compete for admission to professional schools, advanced post-graduate degree programs, or other career paths that require a strong background and understanding of basic and applied sciences.

The Equine Concentration is designed for students who desire a sound science based background in Animal Science, but desire a more intense study of equine management and equine science.

Students should consult an animal science adviser for specific course selections in the elective areas. With appropriate advising, students have an opportunity to complete at least one minor within the 120-hour degree program.

Requirements for a Major in Animal Science (ANSC) General Animal Science Concentration State minimum core and discipline specific general education requirements: (Course work that meets state minimum core requirements is in bold.) Communications (6-12 hours) Choose from **English Core** courses (6 hours) Communication Intensive Elective (6 hours from approved list.) History or Government (3 hours) Choose from U.S. History or Government Core courses Mathematics (3 hours) Choose from MATH Core courses Sciences (16 hours) **BIOL 1543/1541L** Principles of Biology and lab BIOL 2013/2011L General Microbiology and lab CHEM 1073/1071L Fundamentals of Chemistry and lab or CHEM 1123/1121L University Chemistry II and lab CHEM 2613/2611L Organic Physiological Chemistry and lab or CHEM 3603/3601L Organic Chemistry I and lab Fine Arts and Humanities (6 hours) Choose from Fine Arts, Humanities Core courses Social Sciences (9 hours) __ Choose from **Social Sciences Core** courses ANSC Requirements (242 hours) __ ANSC 1001L Introductory Animal Sciences Laboratory __ ANSC 1032 Introductory Animal Sciences ANSC 1041 Introduction to Companion Animal Industry or ANSC 1051 Introduction to the Livestock Industry __ ANSC 2252L Introduction to Livestock and Meat Evaluation __ ANSC 2781 Career Preparation and Development __ ANSC 3133 Animal Breeding and Genetics __ ANSC 3143 Principles of Animal Nutrition __ ANSC 3433 Fundamentals of Reproductive Physiology ANSC 4142 Advanced Animal Handling Techniques Choose 6 hours from the following: __ ANSC 4252 Cow-Calf Management __ ANSC 4262 Swine Production __ ANSC 4272 Sheep Production __ ANSC 4283 Horse Production __ ANSC 4452 Milk Production __ ANSC 4482 Companion Animal Management __ ANSC 4652 Stocker-Feedlot Cattle Management Animal Science Electives (Choose 13 hours): __ ANSC 3003 Applied Animal Parasitology __ ANSC 3013 Parasitisms of Domesticated Non-Herbivores ANSC 3032 Animal Physiology I

ANSC 3042 Animal Physiology II

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ANSC 3123 Principles of Genetics
  ANSC 3152/3151L Applied Animal Nutrition and lab
__ ANSC 3333 Diseases of Livestock
  ANSC 3072 Equine Selection and Evaluation
 ANSC 4072 Advanced Equine Selection and Evaluation
  ANSC 4173 The Thoroughbred Horse Industry
  ANSC 3491L Artificial Insemination in Cattle
  ANSC 3613 Meat Science
ANSC 4303 Comparative Veterinary Anatomy
Discipline-related Electives (Choose 16 hours)
__ ANSC 2003 __ ANSC 2213 __ ANSC 2304
__ ANSC 3282 __ ANSC 3291 __ ANSC 3723
_ ANSC 3822 __ ANSC 400V __ ANSC 401V
__ ANSC 410V __ ANSC 4291 __ AGEC 1103_
                                                AFLS 400VH (1-6 hrs)
  AGEC 2103 AGEC 2303 AGME 2903
  BIOL 1601L __ BIOL 1603 __ BIOL 2531L
BIOL 2533 __ CSES 1203 __ CSES 2013
__ CHEM 1101L __ CHEM 1103 __ CHEM 1121L
__ CHEM 1123 __ CHEM 2261L __ CHEM 2263
  FDSC 2503 __ PHYS 2011L __ PHYS 2013
  PHYS 2031L __ PHYS 2033 __ POSC 2353
POSC 3554 __ WCOB 1012 __ WCOB 1023_
                                               Math 1213 or higher
Or any upper division course in AEED, AGEC, AGME, AGST, BIOL,
CHEM, CSES, FDSC, POSC, or WCOB.
General Electives (<u>1820</u>-2<u>46</u> hours)
                                                                                    120 Total Hours
Requirements for a Major in Animal Science (ANSC) Pre-Professional/Science Concentration
State minimum core and discipline specific general education requirements:
(Course work that meets state minimum core requirements is in bold.)
Communications (6–12 hours)
__ Choose from English Core courses (6 hours)
<u>COMM 131</u>3
   Communication Intensive Elective (63 hours from approved list.)
History or Government (3 hours)
   Choose from U.S. History or Government Core courses
Mathematics (3 hours)
   Choose from MATH 1213 Core courses
Sciences (168 hours)
 BIOL 1543/1541L Principles of Biology and lab
 BIOL 2013/2011L General Microbiology and lab
- CHEM 1073/1071L Fundamentals of Chemistry and lab or
    CHEM 1123/1121L University Chemistry II and lab
- CHEM 2613/2611L Organic Physiological Chemistry and lab or
CHEM 3603/3601L Organic Chemistry I and lab
Fine Arts and Humanities (6 hours)
  Choose from Fine Arts, Humanities Core courses
Social Sciences (9 hours)
__ Choose from Social Sciences Core courses
ANSC Requirements (2222 hours)
__ ANSC 1001L Introductory Animal Sciences Laboratory
__ ANSC 1032 Introductory Animal Sciences
  ANSC 1041 Introduction to Companion Animal Industry or
ANSC 1051 Introduction to the Livestock Industry
__ ANSC 2252L Introduction to Livestock and Meat Evaluation
__ ANSC 2781 Career Preparation and Development
   ANSC 3133 Animal Breeding and Genetics
   ANSC 3123 Principles of Genetics
   ANSC 3143 Principles of Animal Nutrition
   ANSC 3433 Fundamentals of Reproductive Physiology
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ANSC 4142 Advanced Animal Handling Techniques	
Choose 46 hours from the following:	
ANSC 4252 Cow-Calf Management	
ANSC 4262 Swine Production	
ANSC 4272 Sheep Production	
ANSC 4283 Horse Production	
ANSC 4452 Milk Production	
ANSC 4482 Companion Animal Management ANSC 4652 Stocker-Feedlot Cattle Management	
ANSC 4032 Stocker-reediot Cattle Management	
Animal Science Electives (Choose <u>136</u> hours):	
ANSC 3003 Applied Animal Parasitology	
ANSC 3013 Parasitisms of Domesticated Non-Herbivores	
— ANSC 3032 Animal Physiology I	
ANSC 3042 Animal Physiology II	
ANSC 3123 Principles of Genetics	
ANSC 3133 Animal Breeding and Genetics	
ANSC 3152/3151L Applied Animal Nutrition and lab	
ANSC 3333 Diseases of Livestock	
ANSC 3072 Equine Selection and Evaluation	
ANSC 4072 Advanced Equine Selection and Evaluation	
ANSC 4173 The Thoroughbred Horse Industry ANSC 3491L Artificial Insemination in Cattle	
ANSC 3491L Attrictal insemination in Cattle ANSC 3613 Meat Science	
ANSC 4303 Comparative Veterinary Anatomy	
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Pre-Professional/Science Concentration (35 hrs)	
ANSC 3032 Animal Physiology I	
ANSC 3042 Animal Physiology II	
BIOL 1603/1601L Zoology and Lab	
BIOL 2013/2011L General Microbiology and lab	
CHEM 1103/1011L Univ Chem I and Lab	
PHYS 2013/2011L College Physics I and Lab PHYS 2033/2031L College Physics II and Lab	
CHEM 3603/3601L Organic Chemistry I and Lab	
CHEM 3613/3611L Organic Chemistry II and Lab	
CHEM 3813 Biochemistry	
Discipline-related Electives (Choose 1 <u>0</u> 6 hours)	
Suggested Pre-Professional/Science Electives:	
BIOL 2533 Cell Biology	
MATH 2554 Calculus I STAT 2023 Biostatistics or STAT 2303 Principles of Statistics	
Other discipline related electives:	
ANSC 2003 ANSC 2213 ANSC 2304	
ANSC 3282 ANSC 3291 ANSC 3723	
ANSC 3822 ANSC 400V ANSC 401V	
ANSC 410V ANSC 4291 AGEC 1103AFLS 400VH (1 – 6 hrs	
AGEC 2103 AGEC 2303 AGME 2903	
<u>BIOL 1601L</u> <u>BIOL 1603</u> <u>BIOL 2531L</u>	
BIOL 2533 CSES 1203 CSES 2013	
CHEM 1101L CHEM 1103 CHEM 1121L CHEM 1123 CHEM 2261L CHEM 2263	
CHEM 1125 CHEM 2201L CHEM 2205 FDSC 2503 PHYS 2011L PHYS 2013	
— PHYS 2031L — PHYS 2033 — POSC 2353	
POSC 3554 WCOB 1012 WCOB 1023	
Or any upper division course in AEED, AGEC, AGME, AGST, BIOL,	
CHEM, CSES, FDSC, POSC, or WCOB.	
General Electives (20-266 hours)	120 Total Hours
	120 Total Hours
Requirements for a Major in Animal Science (ANSC) Equine Concentration	_
State minimum core and discipline specific general education requirements:	

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(Course work that meets state minimum core requirements is in bold.)
Communications (6-12 hours)
__ Choose from English Core courses (6 hours)
  Communication Intensive Elective (6 hours from approved list.)
History or Government (3 hours)
   Choose from U.S. History or Government Core courses
Mathematics (3 hours)
   Choose from MATH Core courses
Sciences (16 hours)
   BIOL 1543/1541L Principles of Biology and lab
  BIOL 2013/2011L General Microbiology and lab
  CHEM 1073/1071L Fundamentals of Chemistry and lab or
  CHEM 1123/1121L University Chemistry II and lab
  CHEM 2613/2611L Organic Physiological Chemistry and lab or
  CHEM 3603/3601L Organic Chemistry I and lab
Fine Arts and Humanities (6 hours)
   Choose from Fine Arts, Humanities Core courses
Social Sciences (9 hours)
__ Choose from Social Sciences Core courses
ANSC Requirements (222 hours)
__ ANSC 1001L Introductory Animal Sciences Laboratory
__ ANSC 1032 Introductory Animal Sciences
   ANSC 1041 Introduction to Companion Animal Industry or
ANSC 1051 Introduction to the Livestock Industry
  ANSC 2252L Introduction to Livestock and Meat Evaluation
  ANSC 2781 Career Preparation and Development
  ANSC 3133 Animal Breeding and Genetics
__ ANSC 3143 Principles of Animal Nutrition
__ ANSC 3433 Fundamentals of Reproductive Physiology
  ANSC 4142 Advanced Animal Handling Techniques
Choose 46 hours from the following:
__ ANSC 4252 Cow-Calf Management
__ ANSC 4262 Swine Production
  ANSC 4272 Sheep Production
   ANSC 4283 Horse Production
  ANSC 4452 Milk Production
  ANSC 4482 Companion Animal Management
  ANSC 4652 Stocker-Feedlot Cattle Management
Animal Science Electives (Choose 13 hours):
  ANSC 3003 Applied Animal Parasitology
  ANSC 3013 Parasitisms of Domesticated Non-Herbivores
__ ANSC 3032 Animal Physiology I
__ ANSC 3042 Animal Physiology II
__ ANSC 3123 Principles of Genetics
__ ANSC 3152/3151L Applied Animal Nutrition and lab
  ANSC 3333 Diseases of Livestock
  ANSC 3491L Artificial Insemination in Cattle
  ANSC 4072 Advanced Equine Selection and Evaluation
  ANSC 3613 Meat Science
 ANSC 4303 Comparative Veterinary Anatomy
Equine Concentration: (14 hrs)
  ANSC 2003 Intro to the Equine Industry
  ANSC 3723 Horse & Livestock Merchandising
 ANSC 3072 Equine Selection and Evaluation
  ANSC 4173 The Thoroughbred Horse Industry
  ANSC 4283 Horse Production
Discipline-related Electives (Choose 163 hours)
  <u>ANSC 2003</u> _ ANSC 2213 _ ANSC 2304
   ANSC 3282 ANSC 3291 — ANSC 3723
   ANSC 3822
                 ANSC 400V ANSC 401V
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ANGC 410V ANGC 4201 A CEC 1102 APR C 400VIV (1 - 61
ANSC 410V ANSC 4291 AGEC 1103 <u> AFLS 400VH (1 – 6 hrs</u>
AGEC 2103 AGEC 2303 AGME 2903
BIOL 1601L BIOL 1603 BIOL 2531L
BIOL 2533CSES 1203CSES 2013
CHEM 1101L CHEM 1103 CHEM 1121L
CHEM 1123 CHEM 2261L CHEM 2263 MATH 1213 or higher
FDSC 2503 PHYS 2011L PHYS 2013
PHYS 2031L PHYS 2033 POSC 2353
POSC 3554WCOB 1012WCOB 1023
Or any upper division course in AEED, AGEC, AGME, AGST, BIOL,
CHEM, CSES, FDSC, POSC, or WCOB.
General Electives (9 20- 15 26 hours)
120 Total Hours

PROGRAM INVENTORY/DARS									
PGRM	SUBJ_		CIP	CRTS					
DGRE	PGCT		OFFC&CRTY VALID)					
REPORTING COD	DES								
PROG. DEF.	-		REQ. DEF.	Initials	Date				
Distribution									
Notification to: (1) College (7) Treasurer	(2) Department (8) Undergraduate Progran		(4) Institutional Research	(5) Continuing Education	(6) Graduate School				

SECTION VIII: Action Recorded by Registrar's Office

8/19/13