

Approval Chart for Curriculum Changes

A = Approve I= Information Item¹ R= Advise & Respond²

Course Number ANSC 496 or Degree Plan(s) _____

State the requested change and reason. A memo may be attached if more space is necessary.

See attached memo for changes to course description and student learning outcomes.

Circle the number that corresponds to the requested change. Degree plan changes are on the second page.

					COUNCIL ³					
	Change to a Course	Dept./School	College Academic	Deans	TEC	UGEC	UUAC	GRAD	Provost	President
1.	Title (description unchanged)	A	A	A	I				I	I
2.	Description (not affecting content)	A	A	A	I				I	I
3.	Course term(s)	A	I	A	I				I	I
4.	Content (substantive change)	A	A	A	I				A	I
5.	Number of hours (lecture, lab, contact)	A	A	A	A				A	I
6.	Course number within the hundred	A	A	I	I				I	I
7.	Course number beyond the hundred	A	A	A	A				A	I
8.	Prerequisites	A	A	A	I				I	I
9.	Course fee(s)	A	--	A	--				A	I
10.	From U to G <i>or</i> G to U	A	A	A	A				A	I
11.	Cross list with another department: U or G level	A	A	A	A				A	I
12.	Department of record	A	A	A	A				A	I
13.	Open or close a course	A	A	A	A				A	I
14.	New course — See website for application and process. This change includes combining or splitting a course(s).	A	A	A	A				A	I

Note: When an academic unit does not have a council, the UGEC and/or UUAC will serve as its academic council, depending on the nature of the issue.

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COUNCIL ³																		
	Change to a Degree Plan	Dept./School	College Academic	Deans	TEC	UGEC	UUAC	GRAD	Provost	Faculty	President	Board of Trustees						
1.	University Requirements — Change in approved course content ⁶	A	A	A	A				A	--	A	--						
2.	University Requirements — Add or drop a required course from the University Requirements chart ⁶	A	A	A	A				A	A	A	--						
3.	University Requirements — Add or drop a course from a menu within the University Requirements ⁶	A	--	--	A				A	--	A	--						
4.	University Requirements — Change hours within a menu on the University Requirements chart ⁶	A	A	A	A				A	A	A	--						
5.	Major — Revision of major ^{4,5}	A	A	A	A				A	--	A	--						
6.	Major — Adopt or change admission requirements	A	A	A	A				A	--	A	--						
7.	Major — Add ^{4,5}	A	A	A	A				A	A	A	I						
8.	Major – Discontinue (proposed by the department or college)	A	A	A	A				A	A	A	I						
9.	Major – Discontinue (proposed by the Provost)	See below.																
10.	GPA — Revise major or cumulative requirement	A	A	A	A				A	A	A	--						
11.	Minor — Revise course selection	A	A	A	I				I	--	I	--						
12.	Minor — Add	A	A	A	A				A	--	A	--						
13.	Minor – Discontinue (proposed by the department or college)	A	A	A	A				A	--	A	--						
14.	Minor – Discontinue (proposed by the Provost)	See below.																
15.	Degree — Add	A	A	A	A				A	A	A	I						
16.	Degree – Discontinue (proposed by the department or college)	A	A	A	A				A	A	A	I						
17.	Degree – Discontinue (proposed by the Provost)	See below.																
18.	Any change to a graduate degree program	A	A	A	A				A	--	A	--						

COUNCIL ³										
	Provost-Proposed Change	Provost	Department	Dean	TEC	UUAC	Graduate	Faculty	President	Board of Trustees
1.	Major/Graduate Program – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I
2.	Minor – Discontinue (proposed by the Provost)	A	R	R	A			--	A	--
3.	Degree – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I

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COUNCIL³

	Change to the Catalog Information	Dept./School	College Academic	Deans	UGEC	UUAC	GRAD	Provost	Faculty	President
1.	General requirements for graduation including course requirements that are common to all majors for all degrees ⁷	--	--	--		A		A	A	A
2.	Admission requirements	--	--	--		A		A	A	A
3.	Policies governing academic probation and suspension	--	--	--		A		A	A	A
4.	Requirements for graduating with honors	--	--	--		A		A	A	A

¹ Councils may request additional information about “Information” items. These items are approved as “Consent Agenda.”

² The Dean and Department should respond to the Provost’s recommendation to close a program in writing. Advise & Respond (R) requires that the voting body should receive the written responses at least one week prior to the vote.

³ All courses that meet University Requirements for general education must go through UGEC. Courses or degrees offered only to students seeking teacher certification must go through the Teacher Education Council. All undergraduate changes must go before the UUAC. All graduate degree plan changes must go through the Graduate Council.

⁴ A minimum of 30 hours is required for a major. A maximum is specified for each degree (e.g., BA, BS). The university minimum for elective hours is 6, unless the requirements of external accrediting bodies make it impossible.

⁵ Program or course changes that apply to any major that includes Teacher Certification will be reviewed by the college, the Teacher Education Council (TEC), and then the UUAC.

⁶ Courses that satisfy ACU’s University Requirements (General Education) will normally have lower-level numbering, be free of prerequisites and co-requisites, appeal to more than one or two majors, and “not narrowly focus on those skills, techniques, and procedures specific to a particular occupation or profession” (SACS 2.7.3). Departments may request exceptions to the first three criteria.

⁷ The UUAC approved the clarification that “general requirements for graduation” means the enumerated items in the “General Requirements for Bachelor’s Degrees” section of the catalog.

Revised 8-26-19

Curriculum/Catalog Changes Signature Page

Department/School Chair(s)	
 Signature	09/09/2019 Approval date
_____ Signature	_____ Approval date

College Academic Council(s)	
 Signature	11-15-19 Approval date
_____ Signature	_____ Approval date

Dean(s)	
 Signature	12/13/19 Approval date
_____ Signature	_____ Approval date

Teacher Education Council	
_____ Chair's signature	_____ Approval date

General Education Council	
_____ Chair's signature	_____ Approval date

Undergraduate Academic Council	
_____ Chair's signature	_____ Approval date

Graduate Council	
_____ Chair's signature	_____ Approval date

Provost	
_____ Signature	_____ Approval date

Faculty	
_____ Chair of faculty senate	_____ Approval date

President	
_____ Signature	_____ Approval date

ANSC: 496

Animal Breeding

Old	New
Course Description	
Genetics applied to the improvement of domestic animals and methods of selection. Introduction to basic statistics. Prerequisite: BIOL 351 .	A systems approach to selection and mating of livestock through the application of genetic principles to livestock production and management. Breeding objectives, heritability, direct and correlated responses, detection of heterozygotes, utilization of pedigree and progeny information for selection, crossbreeding and genotype-environment interactions will be discussed. Prerequisite: BIOL 351.

Old Student Learning Outcomes
Demonstrate a basic understanding of the concepts covered by their exams.

New Student Learning Outcomes	
Competency	Measurement Instrument
Explain key components of Mendelian genetics.	Quizzes and Exams
Evaluate mating systems ability to meet breeding objectives.	Quizzes, Exams, and final project
Summarize the primary factors affecting the rate of genetic change.	Quizzes and Exams
Identify key components of the genetic model for quantitative traits.	Quizzes, exams, and final project
Describe new technologies utilized in animal breeding.	Quizzes and exams
Apply principles of animal breeding to management strategies of domestic animals.	Final project

ANSC 496

Animal Breeding

Course Description

A systems approach to selection and mating of livestock through the application of genetic principles to livestock production and management. Breeding objectives, heritability, direct and correlated responses, detection of heterozygotes, utilization of pedigree and progeny information for selection, crossbreeding and genotype-environment interactions will be discussed. Prerequisite: BIOL 351.

Course number and title: ANSC 496 – Animal Breeding

Credit hours: 3 hours

Semester and year: Fall 2018

Meeting time and place: Lecture: Tue and Thur – 1:30 to 2:50 Onstead Science Center (OSC) 261

Prerequisites: BIOL 351 – Genetics

Catalog description: Genetics applied to the improvement of domestic animals and methods of selection

Intended audience: This class is intended for Junior and Senior level students.

About the Teacher

Professor: Dr. Adam McGee, Assistant Professor of Animal Science.

Office location: OSC 145b

Phone number(s): (325) 674-2167

Email address: alm18f@acu.edu

Office hours/Contact expectations: Office hours: Mon 1:00 to 5:00 and Thur. 9:00 to 11:00 am and 3:00 to 5:00 pm CST or by appointment. Email is the best way to contact me as I will not be in my office all the time. I have an open door policy, if I am in my office feel free to stop and talk. If you have questions about the material presented in class please contact me well in advance of any assignment due dates to make sure that we are able to find a time to meet.

Mission Statements

ACU Mission: The mission of Abilene Christian University is to educate students for Christian service and leadership throughout the world.

College of Arts and Sciences Mission: To educate students for worldwide Christian service and leadership through programs of study and other learning experiences that blend a liberal arts education with professional and career education.

Agriculture and Environmental Sciences Mission Statement: To educate students for Christian stewardship of sustainable agricultural and environmental systems throughout the world.

Unique Christian Perspective: We have been given the unique responsibility of providing for all animals and caring for the land (Genesis 1:26-30). Throughout this semester we will discuss how to be good stewards of the land and livestock. How we can demonstrate our faith in how we care for the land and livestock under our management.

Format of Class

Format of Class: This class will build upon the basic understanding of genetics and apply those principles to livestock production. For this course, there will be 10 quizzes throughout the semester with the 2 lowest scores being dropped. There will be 3 semester exams covering 3-4 weeks of material along with a few cumulative questions from previous exams and a final cumulative exam. There will be a breeding plan project that will be assigned towards the end of the semester to tie the information provided into class into a real world setting.

Instructional Materials

Textbook: Bourdon, R. M. Understanding Animal Breeding. 2nd ed. Prentice Hall, Upper Saddle River (NJ) ISBN: 0130964492

Other materials: Additional materials will be provided to the class through Canvas.

Learning Outcomes

Course goal: Students will be able to discuss and develop breeding plans for livestock species.

Competencies: At the conclusion of the semester students will be able to:

	Competency	Measurement Instrument
1	Explain key concepts of Mendelian genetics.	Quizzes and Exams
2	Evaluate mating systems ability to meet breeding objectives.	Quizzes, Exams, and final project
3	Summarize the primary factors affecting the rate of genetic change.	Quizzes and Exams
4	Identify key components of the genetic model for quantitative traits	Quizzes, exams, and final project
5	Describe new technologies utilized in animal breeding	Quizzes and exams
6	Apply principles of animal breeding to management strategies of domestic animals	Final project

Expectations

This semester we will have the opportunity to study and learn together. In order to ensure that everybody understands what is expected of them for this course I have included what I expect from you in my class as well as what you can expect from me.

Expectations of Students:

- I expect you to be on time to class and prepared to learn.
- I expect you to be respectful to both myself and your fellow classmates. We are all human and will make mistakes as well as have varying levels of previous experiences that shape our understanding and knowledge of the subject. Please allow everybody in the class the opportunity to make mistakes as well as be understanding with those who may not have the same experiences that you have.
- I expect you to spend the time to complete your assignments and study for this class. The assignments in this class are designed to help improve your understanding of the content and will help with your grades in this class
- I expect you to be dressed appropriately for class. If we take a field trip to the Rhoden during class, for safety reasons, I expect you to wear pants and closed toed shoe. During class no hats will be worn.

Expectations of the Instructor:

- I will respond to emails within a timely manner. I will reply to emails during the week within 24 hours. To maintain a balance between work and home, I will not regularly reply to emails in the evening or on the weekend.
- I will respect you and your desire to learn. If there is something that you don't understand please ask so I can reword or spend additional time on a subject to ensure that all content is clearly understood. You are taking this course to learn and it is my responsibility to afford you every opportunity to be successful.
- I will be prepared and on time to class. It is disrespectful to you if I am not prepared and on time for class, as such I will make every effort to be on time and prepared for class just as I expect you to be.
- I will return assignments and tests to you within 2 weeks of the due date. It is important for you to have assignments returned to you in a timely manner so that you can learn what areas you need to spend more time studying and what areas you have a good understanding of.

Assessment and Grading

Assessment activities: This class will have 2 forms of formal assessment, tests and quizzes. There will be 3 tests throughout the semester along with a cumulative final at the end of the semester. Quizzes will be completed at the end of each module for a total of 10 per semester and the lowest 2 quiz scores will be dropped. This class will also have a final project that will include the development of a breeding plan for the species and operation of the student's choice.

Example:

Assessment Activities	Grades Possible	Weighting
Attendance and Participation	50	5%
Quizzes (10)	240	25%
Group Presentation	210	22%
Semester tests (3)	300	32%
Final Project	150	16%
Total	950 (without bonus)	100%

Final grade calculation: Grades will be assigned based on the standard grading format below.

Range of Points	Final Letter Grade
90%-100%	A
80%- 89%	B
70%-79%	C
60%-69%	D
Below 59%	F

Rules for discussing grades: If you have a question about grades on an assignment or your grade in the class please set up an appointment to discuss your grade. Setting an appointment allows me to be better prepared to discuss your grades and make the meeting more beneficial for both of us. Rather than waiting until the end of the semester, if you have questions about your grades please come and visit with me early in the semester while there is still time to improve before the end of the semester.

University Policies

ADA compliance:

Abilene Christian University is dedicated to removing barriers and opening access for students with disabilities in compliance with ADA and Section 504 of the Rehabilitation Act. The Alpha Scholars Program facilitates disability accommodations in cooperation with instructors. In order to receive accommodations, you must be registered with Alpha Scholars Program, and you must complete a specific request for each class in which you need accommodations.

If you have a documented disability and wish to discuss academic accommodations, please call our office directly at (325) 674-2667 or email our compliance coordinator, Scott Self, at jss00c@acu.edu.

Academic integrity is defined as academic work completed as assigned for each class by the individual or group responsible for the work. Violations of academic integrity and other forms of cheating involve the intention to deceive, mislead, or misrepresent and therefore, are a form of lying. Such actions are contrary to behavioral norms that flow from the nature of God. Academic misconduct includes, but is not limited to, the following: 1) Failure to give credit to sources used in a work in an attempt to present the work as one's own, 2) Submission of papers or projects obtained from another source (e.g., research service or club paper file) as one's own, and 3) Falsifying information orally or in writing. Academic misconduct may result in, but is not limited to, a zero on the assignment and/or an F in the course. Additionally, the department chair, Dean of your school, and the Dean of Student Life will be notified. See the full university policy, including how to appeal a decision, by following [this link](#).

Harassment policy: “As a Christian community, Abilene Christian University has committed itself, unequivocally, to ensuring a working and learning environment in which the dignity of every individual is respected. Harassment is defined as unwelcome behavior or conduct based on sex, religion, race, age, color, national origin, veteran's status, disability, or any other characteristic protected by law when (1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment, education, or participation in University programs or activities, (2) submission to, or rejection of, such conduct by an individual is used as the basis for a decision affecting an individual's employment, education, or participation in University programs or activities, or (3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive environment for work, education, or participation in a University program or activity. See the full university policy by following [this link](#)

Course Policies

Attendance : Attendance will be recorded throughout the semester. Students who have documented excused absences for University events will be responsible for finding a time **outside of class prior to the absence** to discuss work that will be missed and how to make up missed assignments.

Any absences for reasons other than excused University events will be considered unexcused absences. After the third absence 5 points will be deducted for each unexcused absence. Absences due to health or family emergencies will be evaluated on an individual basis.

Tardiness : Students are expected to be on time to class, showing up late not only disrupts the class but is also disrespectful to your instructor and the time and effort placed in developing the lesson. A student will be considered tardy if they are not in the class, seated, and ready to begin class by the designated start of class or lab time. After the fifth tardy 5 points will be deducted from attendance points and an additional 5 points will be deducted for every 2 subsequent tardies.

Participation : Students are expected to be active participants in class. This includes taking notes, answering questions, and being involved in activities in both lecture and lab. Failure to participate in class will result in a loss of participation points assigned. Lectures, activities and labs are designed to help you develop a better understanding of the content discussed, your involvement in this is vital to your success in this class.

In my classroom **rude and inappropriate behavior will not be tolerated**. This class is a learning environment and as such, should be a place where students feel comfortable asking questions without being ridiculed. Students who continue to exhibit rude or inappropriate behavior after being asked to stop by the instructor or TA will be asked to leave and must schedule a time to visit with the instructor to obtain notes or missed assignments prior to returning to class. Additional information can be found in the [ACU student handbook](#).

Late assignment/exam: College is a time to develop habits and skills that you will use throughout your life. Completing tasks by the deadline is an important skill that will be needed throughout your professional career. Therefore, for late assignments turned in within 24 hours of after the due date 10% will be deducted from the total score and 10% will be deducted for every additional 24 hours the assignment is late.

Technology use : While technology can be a very useful tool for many tasks, it can also be very distracting both to you and to those students around you. If you find it easier to take notes on a laptop or tablet, you are free to use them, however, if they are being used for activities other than taking notes, students will be asked to put it away.

Calendar

Below is a tentative calendar of topics and test dates for this class. This is only a tentative schedule and will be modified throughout the semester. When significant changes are made i.e. moving of tests, I will let you know at least 1 class period in advance. Due dates for quizzes and assignments will be listed in canvas.

Lecture Calendar

Date	Week	Topic	Quizzes and Exams
8/28/18	1	Syllabus and How to improve animal populations	8/31 –Improving animal populations quiz due
9/4/18	2	Mendelian Inheritance	9/7 – Mendelian Inheritance quiz due
9/11/18	3	Genes in Populations and Simply inherited and Polygenic traits	9/14 – Genes in Population quiz due
9/18/18	4	Selection for Simply-Inherited traits	9/20 Exam 1: Wk 1-3
9/25/18	5	Genetic Model for Quantitative Traits	9/27 Selecting simply inherited traits and Genetic model quiz due
10/2/18	6	Heritability and Repeatability	10/5 Heritability and repeatability quiz due
10/9/18	7	Factors affecting the rate of genetic change	10/12 Factors affecting rate of change quiz due
10/16/18	8	Genetic Prediction	10/18 – Exam 2: Wk 4-7
10/23/18	9	Large-scale Genetic evaluation	10/26 – Genetic Prediction and genetic evaluation quiz due
10/30/18	10	Correlated Response to Selection	11/2 – Correlated response quiz due
11/6/18	11	Multiple Trait Selection	11/8 – Multiple trait quiz due
11/13/18	12	Selection for simply inherited traits and Mating strategies	11/15 – Exam 3: Wk 8-11.
11/20/18	13	Hybrid Vigor	Thanksgiving Break

11/27/18	14	Crossbreeding Systems	11/30 – Hybrid Vigor and Crossbreeding systems quiz due
12/4/18	15	Biotechnology and animal breeding	12/4 – Animal Breeding paper due
12/14	Finals	Final 12:00 – 1:45	