Angelo State University  
ASCI 4343 Beef Cattle Science

Professor:  
Dr. Chase A. Runyan  
Department of Animal Science  
Angelo State University  
VIN 219  
Office: 325-486-6758  
chase.runyan@angelo.edu  
*Email will be best way to contact me. I will make every effort to respond in a timely fashion.

Course T.A.’s:  
Landon Sullivan: lsullivan3@angelo.edu | Cody Webb: landon.webb@tsrh.org

Office Hours:  
Monday: 9:00 – 12:00; Tuesday: 11:00 – 12:00; Wednesday: 9:00 – 12:00; Thursday: 11:00 – 12:00  
Open door policy – Come in if the door is open. **make appointments if you need to block off specific time**

Scheduled Meeting times:  
Lecture: Tuesday & Thursday 9:30 - 10:20 (VIN 241)  
Lab: Thursday 1:00 - 2:50 OR 3:00 – 4:50 (MIR Center 107)

Course Description:  
Methods of breeding, feeding, management, and marketing of commercial and purebred cattle

Recommended Text:  

Objectives:  
Upon completion of this course students will:  
- Understand the principles of profitable and sustainable beef cattle production  
- Be engaged with fundamental concepts of beef cattle systems and how they interact  
- Communicate production recommendations  
- Develop basic understanding of industry parameters

Student Learning Outcomes:  
- Increase proficiency in areas of management, nutrition, breeding, health, and marketing of beef cattle  
- Gain skills implementing managerial practices which increase efficiency or productivity of beef cattle  
- Display understanding of current managerial and economic decision making
**Student Learning Assessment:**
Student learning outcomes will be assessed from 10 or fewer quiz and/or homework assignments from lab and lecture sessions and 4 or fewer course exams.

**Grading Determinations:**
65% of overall course grade will come from Exam grades. 35% of overall course grade will come from quiz/homework assignments.

**Grading Scale**
- A = 89.5% and above
- B = 79.5 to 89.4%
- C = 69.5 to 79.4%
- D = 59.5 to 69.4%
- F = 59.4% and below

**GRADING FORMULA:** \((\text{EXAM AVERAGE} \times 0.65) + (\text{(HOMEWORK/QUIZ AVERAGE)} \times 0.35)\)

**Attendance:**
Students are expected to attend class daily and daily roll sheets will be recorded. Attendance is important and required. Authorized absences may include: (1.) University approved activities (A memo from sponsoring faculty member should be provided) (2.) Death or serious illness of immediate family (3.) Serious personal illness (A physicians note should be provided).

**6 or more unexcused absences will result in reduction of 1 letter grade**

**Attendance Incentive:**
Students with 2 or less unexcused absences are eligible to drop their lowest exam score.

**Academic Honesty Statement:**
Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code. Scholastic dishonesty includes but is not limited to, cheating, plagiarism, falsifying academic records, misinterpreting facts, and any act designed to give unfair academic advantage to the student or the attempt to commit such an act.

**Students with Disabilities:**
Angelo State University is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments Act of 2008 (ADAAA), and subsequent legislation. Student Contact: The Student Life Office is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student’s responsibility to initiate such a request by contacting the Student Life Office, Room 112 University Center, at (325) 942-2191 or (325) 942-2126 (TDD/FAX) or by e-mail at Student.Life@angelo.edu to begin the process. You are encouraged to make this request early in the semester so that appropriate arrangements can be made.
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Exam/Homework/Quiz</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 16</td>
<td>Syllabus/course overview</td>
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<tr>
<td>January 18</td>
<td>Intro. Beef Cattle Production/History/Breeds</td>
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<tr>
<td>January 23</td>
<td>Industry Structure—Systems Framework</td>
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<td>January 25</td>
<td>Basic genetic resources</td>
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<td>January 30</td>
<td>Fundamentals of crossbreeding</td>
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<tr>
<td>February 1</td>
<td>Crossbreeding systems</td>
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<tr>
<td>February 6</td>
<td>Animal identification – production records</td>
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<tr>
<td>February 8</td>
<td>Data and selection of replacements</td>
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<tr>
<td>February 13</td>
<td>Using Genomic information</td>
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<td>February 15</td>
<td>Replacement heifer development</td>
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<tr>
<td>February 20</td>
<td>Controlling Calving Seasons</td>
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<tr>
<td>February 22</td>
<td>EXAM 1 review</td>
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<tr>
<td>February 27</td>
<td>EXAM 1</td>
<td>EXAM 1</td>
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<tr>
<td>March 1</td>
<td>Guest Lecture Series</td>
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<tr>
<td>March 6</td>
<td>Bull Selection and management considerations</td>
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<td>March 8</td>
<td>Optional Content</td>
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<tr>
<td>March 13</td>
<td><em>No Class - Spring Break</em></td>
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<tr>
<td>March 15</td>
<td><em>No Class - Spring Break</em></td>
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<tr>
<td>March 20</td>
<td>Nutritional management of cow herd</td>
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<td>March 22</td>
<td>Herd health considerations</td>
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<td>March 27</td>
<td>Herd health and beef quality assurance</td>
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<tr>
<td>March 29</td>
<td>Slaughter Cattle Grading + fed cattle discussion</td>
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<td>April 3</td>
<td>Factors influencing Seedstock production</td>
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<td>April 5</td>
<td>Factors influencing Yearling-Stocker</td>
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<td>April 10</td>
<td>Factors influencing cattle feeding</td>
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<tr>
<td>April 12</td>
<td>EXAM 2 review</td>
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<td>April 17</td>
<td>EXAM 2</td>
<td>EXAM 2</td>
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<td>April 19</td>
<td>Advertising and Promotion + Marketing</td>
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<td>April 24</td>
<td>Optional Content</td>
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<td>April 26</td>
<td>Risk management</td>
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<tr>
<td>May 1</td>
<td>Economic considerations</td>
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<td>May 3</td>
<td>Optional Content/Final Exam Review</td>
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<tr>
<td>May 10</td>
<td>Final Exam – 8:00am – 10:00am</td>
<td>FINAL EXAM</td>
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**Any part of this schedule is tentative to change**
## Proposed Lab Schedule

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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Homework/Quiz</th>
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<tbody>
<tr>
<td>January 25</td>
<td>Breeds and biological types</td>
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<tr>
<td>February 1</td>
<td>Crossbreeding systems comparisons</td>
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<td>February 8</td>
<td>Beef cattle performance records</td>
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<tr>
<td>February 15</td>
<td>Breeding cattle evaluation and selection</td>
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<tr>
<td>February 22</td>
<td>Reproductive management</td>
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<tr>
<td>March 1</td>
<td>Optional Content</td>
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<tr>
<td>March 8</td>
<td>Breeding Soundness Exams</td>
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<tr>
<td>March 15</td>
<td><em>No Lab – Spring Break</em></td>
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<tr>
<td>March 22</td>
<td>Optional Content</td>
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<tr>
<td>March 29</td>
<td>Fed Cattle Evaluation</td>
<td>3</td>
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<tr>
<td>April 5</td>
<td>Pasture evaluation and stocking rate problems</td>
<td>4</td>
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<tr>
<td>April 12</td>
<td>Stocker/feeder cattle evaluation and pricing</td>
<td>5</td>
</tr>
<tr>
<td>April 19</td>
<td>Optional Content</td>
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<tr>
<td>April 26</td>
<td>Lab Practicum</td>
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</table>

**Any part of this schedule is tentative to change**

Keep a record of your grades here:

<table>
<thead>
<tr>
<th>QUIZ 1</th>
<th>QUIZ 2</th>
<th>HW 1</th>
<th>HW 2</th>
<th>HW 3</th>
<th>HW 4</th>
<th>HW 5</th>
<th>HW 6</th>
<th>HW 7</th>
<th>EXAM 1</th>
<th>EXAM 2</th>
<th>EXAM 3</th>
<th>FINAL EXAM</th>
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