ANS 4243C
Beef Cow/Calf Management
Fall 2018

Instructor:
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210C Animal Science Bldg., North (Bldg. 459)
392-8597 office
tathrift@ufl.edu

Teaching Assistants:
Jesse Savell
Savell@animal.ufl.edu
352-494-3397 cell

Schedule:
Lectures: T R Period 3 (9:35 - 10:25 am) BTU south
Discussion: R Period 8-10 (3:00 - 6:00 pm) BTU south
Office Hours: Open door policy

Course Description:
Beef cow/calf management is a senior level “capstone” course for the Beef Industry curriculum in the Animal Sciences Major. It is designed to assimilate information learned in prerequisite courses into management systems. The course will focus on the commercial cow/calf production with emphasis on application of nutrition, reproduction, genetics, health, marketing, and financial management.

Course Objectives:
1. To gain an understanding of the beef cattle industry in the state of Florida, the United States, and the World.
2. To describe roles of the major beef breeds as well as equipment, identification, nutrition, reproduction, genetics, health, marketing, taxation, and management concepts relative to the beef cattle industry.
3. To understand the future direction of the beef cattle industry and how change may affect beef production.
Grading Policy:

1. Final course grade will be based on percentage of total points earned (total points will be based on hour examinations, homework, magazine article reviews, and final examination).

<table>
<thead>
<tr>
<th>Points</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Hourly exam 1</td>
<td>150</td>
</tr>
<tr>
<td>Hourly exam 2</td>
<td>150</td>
</tr>
<tr>
<td>Homework (~5 assignments)</td>
<td>50</td>
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<tr>
<td>Magazine article reviews (10)</td>
<td>50</td>
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<tr>
<td>Total</td>
<td>400</td>
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Final Grade (non-negotiable)

- > 90.0 = A
- 87.5 - 89.9 = B+
- 82.5 - 87.4 = B
- 80.0 - 82.4 = B-
- 77.5 - 79.9 = C+
- 67.5 - 69.9 = D+
- 60.0 - 67.4 = D
- 60.0 - 62.5 = D-
- < 60.0 = E

2. Final examination, which all students have to take, will be given on a date and during a time period specified in the University Class schedule.

3. Hour examinations, involving lecture and laboratory material, will be given at specified intervals during the semester. If the hour exam is not taken at a specified time due to illness, the student must provide the instructor with a signed doctors excuse.

4. Unannounced pop quizzes may be given in lecture or lab. Quiz points will be bonus points. No make up quizzes will be given.

5. Attendance to lecture or lab is not required. No penalty will be imposed for absence; however, students are responsible for material covered in class.

6. Review and summary of a popular press article will be required weekly. The summary should be handwritten (must be readable and neat), between 3/4 to 1 page in length, due on THURSDAYS at the BEGINNING of lab. The summary must review the facts presented in the article and should end with a couple of sentences on how the information presented might apply to the Florida Beef Industry.
Acceptable magazines for review are listed below (This list is not inclusive and other magazines are acceptable as long as they apply to the beef industry).

<table>
<thead>
<tr>
<th>Agricultural Research</th>
<th>Feedlot</th>
<th>Meat International</th>
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<tbody>
<tr>
<td>Angus Journal</td>
<td>Feedstuffs</td>
<td>National Cattlemen</td>
</tr>
<tr>
<td>Angus Beef Bulletin</td>
<td>Gelbvieh World</td>
<td>Progressive Farmer</td>
</tr>
<tr>
<td>Beef</td>
<td>Gulf Coast Cattleman</td>
<td>Santa Gertrudis USA</td>
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<tr>
<td>Beef Today</td>
<td>Hay and Forage Grower</td>
<td>The Cattleman</td>
</tr>
<tr>
<td>Braford News</td>
<td>Hereford World</td>
<td>The Florida Cattleman</td>
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<tr>
<td>Cattle Today</td>
<td>Limousin World</td>
<td>The Beefmaster Cowman</td>
</tr>
<tr>
<td>Drovers Journal</td>
<td>Livestock Weekly</td>
<td>Western Livestock Journal</td>
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</table>

Text:

No text is required. Supplemental reading may be handed out during class or lab.
### Tentative Course Outline:

<table>
<thead>
<tr>
<th>Date</th>
<th>Type</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/23</td>
<td>Lecture</td>
<td>Introduction/Syllabus Overview</td>
</tr>
<tr>
<td></td>
<td></td>
<td>How did the FL beef cattle industry get started?</td>
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<tr>
<td></td>
<td></td>
<td>- History of beef industry in FL</td>
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<tr>
<td>08/23</td>
<td>Lab</td>
<td>How is the beef industry structured?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Overview of beef cattle industry –structure, industry targets</td>
</tr>
<tr>
<td>08/28</td>
<td>Lecture</td>
<td>How is the beef industry structured?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Overview of beef cattle industry –structure, industry targets</td>
</tr>
<tr>
<td>08/30</td>
<td>Lecture</td>
<td>Where are the cows in FL, the US, and World?</td>
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<tr>
<td></td>
<td></td>
<td>- Global beef production</td>
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<tr>
<td></td>
<td></td>
<td>- Comparison and contrast of beef production practices</td>
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<tr>
<td>08/30</td>
<td>Lab</td>
<td>Why isn’t the beef industry vertically integrated?</td>
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<tr>
<td></td>
<td></td>
<td>- Discussion of industry structure, current and future trends</td>
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<tr>
<td></td>
<td></td>
<td>How are cattle different than other creatures?</td>
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<tr>
<td></td>
<td></td>
<td>- Common cattle characteristics</td>
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<tr>
<td></td>
<td></td>
<td>What traits are important in beef production?</td>
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<td></td>
<td></td>
<td>- Placing selection emphasis on different traits</td>
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<tr>
<td>09/4</td>
<td>Lecture</td>
<td>What is a genetic antagonism?</td>
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<tr>
<td></td>
<td></td>
<td>- Common antagonisms that hinder selection progress</td>
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<tr>
<td>09/6</td>
<td>Lecture</td>
<td>Should all of my calves grade choice?</td>
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<tr>
<td></td>
<td></td>
<td>- Utilization of carcass data to make selection decisions</td>
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<tr>
<td>09/6</td>
<td>Lab</td>
<td>Is my cow too big?</td>
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<tr>
<td></td>
<td></td>
<td>- Discussion of cow size and milk production</td>
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<tr>
<td>09/11</td>
<td>Lecture</td>
<td>How heavy should my weaning weight be?</td>
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<tr>
<td></td>
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<td>- Economics of weaning weight and value of gain</td>
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<td></td>
<td></td>
<td>- Discussion on age at weaning</td>
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<tr>
<td></td>
<td></td>
<td>What are the implications of high reproductive rates and heavy calf crops?</td>
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<tr>
<td></td>
<td></td>
<td>- Cost and benefits of improving lbs calf weaned/cow exposed</td>
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<tr>
<td>09/13</td>
<td>Lecture</td>
<td>Which breed do I choose?</td>
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<tr>
<td></td>
<td></td>
<td>- Breed evaluation/utilization</td>
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<tr>
<td></td>
<td></td>
<td>- Breed vs Type</td>
</tr>
<tr>
<td>Date</td>
<td>Type</td>
<td>Topic</td>
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</tbody>
</table>
| 09/13 | Lab   | Which breed do I choose?  
- Breed evaluation/utilization  
- Breed vs Type  
- Functional traits |
| 09/18 | Lecture | What is hybrid vigor and how can I take advantage of it?  
- Discussion of crossbreeding potential |
| 09/20 | Lecture | Should I straightbreed or crossbreed?  
- Planning a breeding program |
| 09/20 | Lab   | Should I straightbreed or crossbreed?  
- Planning a breeding program |
| 09/25 | Lecture | Should I straightbreed or crossbreed?  
- Planning a breeding program |
| 09/27 | Lecture | What is a composite?  
- Discussion of alternative mating plans |
| 09/27 | Lab   | How much ear do I need in my cow?  
- Discussion of adaptability to hot humid conditions |
| 10/ 2 | Lecture | Which heifers should I keep as replacements?  
How old are my cows?  
- Determining age of cows |
| 10/ 4 | Lecture | What are the keys to good reproductive success in my cowherd?  
- Calving span, %Calf Crop, |
| 10/ 4 | Lab   | How am I ever going to pass this test?  
- **EXAM 1 SUBJECT TO CHANGE** |
| 10/ 9 | Lecture | When should my cows calve?  
- Calving season selection and management |
| 10/11 | Lecture | What is the Non fed Beef Quality Audit?  
- BQA application to cull cow management |
| 10/11 | Lab   | What is Beef Quality Assurance?  
- Injection sites |
| 10/16 | Lecture | How should I manage my heifers?  
- Replacement heifer selection and management |
| 10/18 | Lecture | Should I purchase or raise my replacement heifers?  
- Economics of replacement females |
<p>| 10/18 | Lab   | Replacement female options continued |</p>
<table>
<thead>
<tr>
<th>Date</th>
<th>Type</th>
<th>Topic</th>
</tr>
</thead>
</table>
| 10/23  | Lecture | How should I sell my calves?  
What is a slide?  
Should I retained ownership?  
What is a breakeven? |
| 10/25  | Lecture | How do I use data to help me make selection decisions?  
-Utilizing EPDs, frame score, weights, carcass data, etc. |
| 10/25  | Lab    | How should I manage my bulls?  
-Bull management for commercial cow calf producers  
-Utilization of yearling bulls  
-Utilization of un-adapted bulls  
-Breeding soundness of bulls |
| 10/30  | Lecture | Bull Management cont |
| 11/1   | Lecture | How do I use data to help me make selection decisions? Cont.  
-Utilizing EPDs, frame score, weights, carcass data, etc. |
| 11/1   | Lab    | How do I use all this data to pick a bull? |
| 11/6   | Lecture | How do I use all this data to pick a bull? |
| 11/8   | Lecture | How do I use all this data to pick a bull? |
| 11/8   | Lab    | How do I use all this data to pick a bull? |
| 11/13  | Lecture | What vaccines should I give my cows?  
-Vaccination theory  
-Bovine diseases  
-Designing a herd health program |
| 11/15  | Lecture | Should I individually identify my cows/calves?  
-Individual animal management |
| 11/15  | Lab    | How do I ID my cows?  
-Marks and Brands |
| 11/20  | Lecture | Should I deworm my cows?  
-Internal and external parasite control |
| 11/22  | Lecture | How much turkey can I eat?  
-Thanksgiving Break |
| 11/22  | Lab    | How much leftover turkey can I eat?  
-Thanksgiving Break |
| 11/27  | Lecture | Should I deworm my cows?  
-Internal and external parasite control |
### RISK ASSOCIATED WITH THE USE OF LIVESTOCK:

Working with livestock is inherently **risky**. Many of these animals are capable of injuring people, especially when they are in the *fight or flight* mode inspired by a stressful situation. The instructors will work to provide students with the ability to manage livestock with minimal stress, thus lowering the risk of injury to people and animals.

**IT IS IMPERATIVE THAT STUDENTS FOLLOW INSTRUCTIONS!**
Grades and Grade Points
For information on current UF policies for assigning grade points, see
https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Attendance and Make-Up Work
Requirements for class attendance and make-up exams, assignments and other work are
consistent with university policies that can be found at:

Online Course Evaluation Process
Student assessment of instruction is an important part of efforts to improve teaching and
learning. At the end of the semester, students are expected to provide feedback on the
quality of instruction in this course using a standard set of university and college criteria.
These evaluations are conducted online at https://evaluations.ufl.edu. Evaluations are
typically open for students to complete during the last two or three weeks of the semester;
students will be notified of the specific times when they are open. Summary results of
these assessments are available to students at https://evaluations.ufl.edu/results.

Software Use:
All faculty, staff and students of the university are required and expected to obey the laws
and legal agreements governing software use. Failure to do so can lead to monetary
damages and/or criminal penalties for the individual violator. Because such violations are
also against university policies and rules, disciplinary action will be taken as appropriate.

Services for Students with Disabilities
The Disability Resource Center coordinates the needed accommodations of students with
disabilities. This includes registering disabilities, recommending academic
accommodations within the classroom, accessing special adaptive computer equipment,
providing interpretation services and mediating faculty-student disability related issues.
Students requesting classroom accommodation must first register with the Dean of Students
Office. The Dean of Students Office will provide documentation to the student who must
then provide this documentation to the Instructor when requesting accommodation
0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/
Academic Honesty
As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: http://www.dso.ufl.edu/scrr/process/student-conduct-honor-code.

Campus Helping Resources
Students experiencing crises or personal problems that interfere with their general wellbeing are encouraged to utilize the university’s counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu/cwc/
- Counseling Services
- Groups and Workshops
- Outreach and Consultation
- Self-Help Library
- Wellness Coaching
- U Matter We Care, www.umatter.ufl.edu/
- Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/

Student Complaint Process