

# Kansas State University

## Beef Cattle Ranch Management Certificate

2022-2023 Catalog

This certificate program will require the completion of 21 credit hours of defined beef cattle production and management courses. The courses will provide practical application of scientific knowledge to beef cattle production and ranch management issues. Students may choose to complete the Certification Program concurrent with the pursuit of a degree in any of the eight colleges at Kansas State.

### Core Courses (18 credit hours)

- AGEC 308- Farm and Ranch Management **Credit: 3**  
or
- AGEC 318- Food and Agribusiness Management **Credits: 3**
- AGRON 501- Range Management **Credits: 3**  
or
- AGRON 550- Forage Management and Utilization **Credits: 3**
- ASI 400- Farm and Animal Reproduction **Credits: 3**
- ASI 510- Animal Breeding Principles **Credits: 3**
- ASI 620- Beef Systems Management **Credits: 2**
- ASI 680- Ruminant Nutrition **Credits: 1**
- ASI 683- Grazing Livestock Nutrition **Credits: 1**
- DMP 611- Cow-Calf Health Systems **Credits: 2**

### Electives (Minimum of 3 credit hours)

- ASI 402- Calving **Credits: 1**
- ASI 512- Bovine Reproductive Technologies **Credits: 2**
- ASI 650- Identification and Data Management of Food Animals **Credits: 2**
- ASI 662- Special Topics in Animal Science **Credits: 0-6**

### Maximum 6 credit hours from following experimental learning courses (must be beef cattle-related)

- ASI 561- Undergraduate Research on Animal Sciences and Industry **Credits: 0-3**
- ASI 599- Animal Science Internship **Credits: 1-6**
- ASI 660- International Study Experience in Animal Science **Credits: 0-6**
- ASI 661- Animal Sciences and Industry Problems **Credit: variable**

### Required Prerequisite Courses

- AGEC 120- Agricultural Economics and Agribusiness **Credits: 3**
- ASI 318- Fundamentals of Nutrition **Credits: 3**
- ASI 320- Principles of Feeding **Credits: 3**
- ASI 500- Genetics **Credits: 3**
- ASI 515- Beef Science **Credits: 3**
- BIOL 198- Principles of Biology **Credits: 4**
- CHM 110- General Chemistry **Credits: 3**  
And
- CHM 111- General Chemistry Lab **Credits: 1**
- MATH 100- College Algebra **Credits: 3**

### Notes

To receive the certificate students must have a cumulative GPA of 2.0 in the 21 required credit hours. Course(s) from the junior colleges and/or technical school programs will not be applied toward the certificate unless the course(s) are equivalent to a K-State course(s).