



**SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS**

New Course Request

SDSU	Agriculture, Food & Environmental Sciences / Animal Science
Institution	Division/Department
Dennis D. Hedge	10/23/2019
Institutional Approval Signature	Date

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
AS 533	Applied Mineral Nutrition of Livestock	1

Course Description

This course is designed to provide an overview of macro and micromineral nutrition of domestic livestock. Students will explore the general functions of various minerals, mineral requirements, potential interactions, bioavailability of different mineral sources, and signs of mineral deficiencies or toxicities.

Pre-requisites or Co-requisites

Prefix & No.	Course Title	Pre-Req/Co-Req?
None		

Registration Restrictions

None

Section 2. Review of Course

- 2.1. Was the course first offered as an experimental course? Yes No
 2.2. Will this be a unique or common course?

Unique Course

Prefix & No.	Course Title	Credits
AS 733	Vitamins and Minerals	3
NUTR 760	Vitamins and Minerals in Human Nutrition	3

Provide explanation of differences between proposed course and existing system catalog courses below:

The proposed course will emphasize applied mineral nutrition rather than in depth biochemical processes. Subject matter will include, but not be limited to, requirements, common antagonisms, identification of deficiency and toxicity signs, and delivery. Furthermore, this new course will be exclusively focused on livestock rather than including any discussion of mineral nutrition in humans.

Section 3. Other Course Information

3.1. Are there instructional staffing impacts?

No. Replacement of AS 733 Vitamins and Minerals (3 cr.)
 Effective date of deletion: Summer 2020

3.2. Existing program(s) in which course will be offered: Animal Science (M.S., Ph.D.)

3.3. Proposed instructional method by university: R - Lecture

3.4. Proposed delivery method by university: 001 – Face to Face Term Based Instruction

3.5. Term change will be effective: Fall 2020

3.6. Can students repeat the course for additional credit? Yes, total credit limit: No

3.7. Will grade for this course be limited to S/U (pass/fail)? Yes No

3.8. Will section enrollment be capped? Yes, max per section: 25 No

3.9. Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course system database in Colleague and the Course Inventory Report? Yes No

3.10. Is this prefix approved for your university? Yes No

Section 4. Department and Course Codes (Completed by University Academic Affairs)

4.1. University Department Code: SANS

4.2. Proposed CIP Code: 01.0904

Is this a new CIP code for the university? Yes No

NEW COURSE REQUEST Supporting Justification for On-Campus Review

<u>Cody Wright</u> Request Originator	<u>Cody Wright</u> Signature	<u>9/24/2019</u> Date
<u>Joseph Cassady</u> Department Chair	<u>Joseph Cassady</u> Signature	<u>9/24/2019</u> Date
<u>Don Marshall</u> School/College Dean	<u>Don Marshall</u> Signature	<u>9/24/2019</u> Date

1. Provide specific reasons for the proposal of this course and explain how the changes enhance the curriculum.

This course is being proposed as an alternative to AS 733 – Vitamins and Minerals (3 cr.) in the Department of Animal Science. The course content will focus primarily on applied mineral nutrition. An understanding of applied mineral nutrition is necessary for both MS and PhD graduate students interested in pursuing industry or Extension careers related to livestock nutrition. AS 733 does include some applied components but is more heavily focused how various vitamins and minerals are utilized in various biochemical and physiological processes.

Furthermore, the new course will be offered face-to-face on campus in alternate years. Students will have the flexibility in scheduling either this course or a proposed companion course (AS 534 Applied Vitamin Nutrition of Livestock) each year. Currently, AS 733 Vitamins and Minerals is offered in the spring semester of odd years. Unfortunately, that precludes some students, especially MS students, from taking the course due to scheduling challenges. The department will also be afforded flexibility in managing faculty workloads. Since AS 733 is offered in alternate years, incorporating 4 workload units into an instructor's workload in alternate years creates significant challenges.

2. Note whether this course is: Required Elective
3. In addition to the major/program in which this course is offered, what other majors/programs will be affected by this course?

It is anticipated that graduate students in Dairy Science and Natural Resources Management may have an interest in taking this course as a component of their plan of study.

4. If this will be a dual listed course, indicate how the distinction between the two levels will be made.
N/A
5. Desired section size 25
6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).
Cody Wright, Ph.D., Professor
7. Note whether adequate facilities are available and list any special equipment needed for the course.
Adequate facilities are currently available for this course and no additional special equipment is required.
8. Note whether adequate library and media support are available for the course.
Adequate library and media support are currently available for this course.
9. Will the new course duplicate courses currently being offered on this campus? Yes No
10. If this course may be offered for variable credit, explain how the amount of credit at each offering is to be determined.
N/A
11. Add any additional comments that will aid in the evaluation of this request.
At some point in the future, this course may be proposed as a 400/500 level course that would allow advanced undergraduates to take it.