



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

New Course Request

SDSU	Agriculture, Food & Environmental Sciences / Agronomy, Horticulture & Plant Science
Institution	Division/Department
Dennis D. Hedge	3/28/2024
Institutional Approval Signature	Date

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
PRAG 475	Senior Capstone	3

Course Description

A current precision agriculture related research project in a field plot, greenhouse, or mechanical setting is assigned to a small student team. Student teams will use scientific methods and statistical analysis tools to solve the problem.

Pre-requisites or Co-requisites

Prefix & No.	Course Title	Pre-Req/Co-Req?
PRAG 285 or AST 273	Agriculture Computations <i>or</i> Agricultural Computer Applications for Ag Systems	Pre-Req
STAT 281 or STAT 383	Introduction to Statistics <i>or</i> Geospatial Dataset Analysis	Pre-Req

Registration Restrictions

Senior Standing

Section 2. Review of Course

2.1. Will this be a unique or common course?

Unique Course

Prefix & No.	Course Title	Credits
ABS 475	Integrated Natural Resource Management	3
	Varies	

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

All majors at SDSU include a capstone course. The prefix, number, title, and description vary based on each program. ABS 475 Integrated Natural Resource Management is currently utilized by multiple departments as a capstone course for students in the College of Agriculture, Food and Environmental Sciences. The proposed course, PRAG 475, will replace ABS 475 for Agronomy and Precision Agriculture majors. The purpose of this request is to provide a capstone course with a course description that reflects the evolution ABS 475 has undergone over the years as technology has entered the agronomy world creating precision agriculture. Students in PRAG 475 will complete precision agriculture research. ABS 475 will continue to be utilized by the Department of Natural Resource Management.

Section 3. Other Course Information

3.1. Are there instructional staffing impacts?

No. Schedule Management, explain below: PRAG 475 will replace ABS 475 Integrated

Natural Resource Management for the Agronomy and Precision Agriculture majors. The same faculty that taught ABS 475 in the fall will teach PRAG 475. The new course will be offered every fall semester. The Department of Natural Resource Management will continue to offer ABS 475 during the spring semester for their majors.

3.2. Existing program(s) in which course will be offered: Agronomy (B.S.), Precision Agriculture (B.S.)

3.3. Proposed instructional method by university (as defined by AAC Guideline 5.4): J - Research

3.4. Proposed delivery method by university (as defined by AAC Guideline 5.5): 001 - Face to Face

3.5. Term change will be effective: fall 2024

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: 65 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: Agronomy, Horticulture and Plant Science

4.2. Banner Department Code: SAHP

4.3. Proposed CIP Code: 01.0301

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

**NEW COURSE REQUEST
Supporting Justification for On-Campus Review**

Cheryl L. Reese/Brent Turnipseed	Cheryl L. Reese/Brent Turnipseed	2/27/2024
Request Originator	Signature	Date
David Wright	David Wright	3/1/2024
Department Chair	Signature	Date
Joseph Cassady	Joseph Cassady	3/1/2024
School/College Dean	Signature	Date

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

PRAG 475 Senior Capstone (3 cr.) will replace ABS 475 Integrated Natural Resource Management for the Agronomy and Precision Agriculture majors. The same faculty that taught ABS 475 in the fall will teach the new course. This course will be offered every fall semester. Listing a course with the same prefix and number between different departments leads to confusion for students, and they may plan/register for the wrong one. Creating PRAG 475 will better service students in the College of Agriculture, Food, and Environmental Sciences and eliminate confusion regarding which ABS 475 course to select. Industrial careers in precision agriculture require knowledge to understand the scientific method used to answer complex questions in the agronomic areas of in-field research, greenhouse, or equipment research. Natural Resource Management offers ABS 475 during the spring semester. The course focuses on sustainability of range, grasslands, and wildlife ecosystems and does not meet the needs of PRAG and AGRO majors.

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?

Students in Agricultural Science (B.S.), Agricultural Education, Communication and Leadership (B.S.) – Communication Specialization, and Agricultural Education, Communication and Leadership (B.S.) – Leadership Specialization select from a list of capstones offered within the college. This course may be

added to the list of options.

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: 65
6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).
Cheryl L. Reese, Senior Lecturer, Ph.D.
Hani Ghosheh, Senior Lecturer, Ph.D.
Shaina Westhoff, Lecturer, Ph.D.
7. Note whether adequate facilities are available and list any special equipment needed for the course.
Current facilities in the AHPS department and equipment are available and adequate.
8. Note whether adequate library and media support are available for the course.
Current library and media are adequate.
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