



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

**Revised Course Request: Unique Course
(Substantive Modification)**

SDSU Institution	Gemechis Djira Form Initiator Jerome J Lohr College of Engineering / Mathematics and Statistics	Suzette Burckhard Dean's Approval Signature	3/12/2025 Date
SDSU Institution	Division/Department	Dennis D. Hedge Institutional Approval Signature	4/16/2025 Date

Section 1. Existing Course Title and Description

Prefix & No.	Course Title	Credits
STAT 441	Statistical Methods II	3
STAT 541	Statistical Methods II	3
Course Description		
Analysis of variance, various types of regression, and other statistical techniques and distributions.		

Section 2. Modification(s) Requested

2.1. This modification will include:

A change in description/subject matter content (enter revised description below).

Review introductory statistical experiments and basics of programming with data. Topics include parameter estimation, hypothesis testing, and model assumption evaluation in various contexts such as one-way and two-way analysis of variance, simple and multiple linear regression, factorial designs, and experimental design. Students will use statistical software to analyze data and will learn to effectively communicate the scientific reasoning, statistical procedures, and interpretations of their analysis.

Effective term of the change: Fall 2025

2.2. Add justification for all changes noted above:

The existing description is very brief and fails to capture the scope and depth of the content being taught in the course.

Section 3. Other Course Information

3.1. 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 database? Yes No

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

	<u>Current</u>	to	<u>New</u>
<input type="checkbox"/> Change in University Department	Mathematics and Statistics		No change
<input type="checkbox"/> Change in Banner Department Code	SMAS		No change
<input type="checkbox"/> Change in <u>CIP Code</u>	27.0501		No change