

**ACADEMIC AFFAIRS COUNCIL**

**AGENDA ITEM: 3.B.2**

**DATE: July 26, 2010**

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**SUBJECT: Course Modifications - SDSU**

South Dakota State University has submitted the following course modifications. These will be reported on the Interim Actions report of the Executive Director for the August BOR meeting.

*New Course Request*

- RANG 710 Principles of Forage Quality

*Revised Course Request ~ Common*

- MATH 471 Numerical Analysis I
- MATH 571 Numerical Analysis I

*Revised Course Request ~ Unique*

- MATH 671 Numerical Analysis II

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**RECOMMENDED ACTION**

**Approval.**

**SOUTH DAKOTA BOARD OF REGENTS  
New Course Request**

<u>SDSU</u>	<u>Animal &amp; Range Sciences</u>	<u>Laurie Stenberg Nichols</u>	<u>4/6/2010</u>
Institution	Division/Department	Institutional Approval Signature	Date

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**Section 1. Course Title and Description**

<u>Prefix &amp; No.</u>	<u>Course Title</u>	<u>Credits</u>
RANG 710	Principles of Forage Quality	3

The course provides an in depth study of the chemical characteristics of forage components and the interactions with ruminant physiology and digestion that influence forage feeding value and the laboratory procedures used to evaluate forages for grazing livestock. Students should have knowledge of the basic principles of chemistry, ruminant nutrition, and plant physiology so that they can develop an understanding of the chemical characteristics of forages and how they affect the value of forages to grazing livestock.

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**Section 2. Review of Course**

Will this be a common or unique course? (select the appropriate option below)

  x   This course will be a unique course. (Go to Section 3.)

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**Section 3. Other Course Information**

1. Are there instructional staffing impacts?

  x   No, schedule management. Explain: Course is offered via internet from KSU through the AG IDEA program

2. Existing program in which course will be offered: Animal and Range Science

3. Proposed instructional method: R: Lecture  
(may be found at <http://www.sdbor.edu/administration/academics/aac/guidelines.htm>)

Provide a brief justification: Offered through the AG IDEA program

4. Proposed primary delivery: 18: Internet Synchronous  
(may be found at <http://www.sdbor.edu/administration/academics/aac/guidelines.htm>)

5. Term in which change will be effective: Fall 2010

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**SOUTH DAKOTA BOARD OF REGENTS  
Revised Course Request: Common Course**

This form is to be used to request a substantive change in a common course. Representatives from all institutions offering the common course must participate in developing the proposed revisions to a common course. Signatures from all institutions offering the common course must be included on the final form submitted to AAC.

<u>SDSU</u> Institution	<u>Math &amp; Stat Dept</u> Division/Department	<u>Laurie Stenberg Nichols</u> Institutional Approval Signature	<u>7/16/10</u> Date
<u>SDSU</u> Institution	<u>Kurt Cogswell</u> Form Initiator	<u>Lewis F. Brown</u> Dean's Approval Signature	<u>5/24/10</u> Date
<u>BHSU</u> Institution	<u>Chair</u> Division/Department	<u>Curtis Card</u> Institutional Approval Signature	<u>5/24/10</u> Date
<u>DSU</u> Institution	<u>VPAA</u> Division/Department	<u>Cecelia Wittmayer</u> Institutional Approval Signature	<u>5/24/10</u> Date
<u>NSU</u> Institution	<u>Chair</u> Division/Department	<u>Abid Elkhader</u> Institutional Approval Signature	<u>5/24/10</u> Date
<u>SDSMT</u> Institution	<u>Chair</u> Division/Department	<u>Kyle Riley</u> Institutional Approval Signature	<u>5/24/10</u> Date
<u>USD</u> Institution	<u>Chair</u> Division/Department	<u>Dan van Peurseem</u> Institutional Approval Signature	<u>5/24/10</u> Date

Indicate (X) the universities that offer the common course.

X \_\_\_ BHSU X \_\_\_ DSU X \_\_\_ NSU X \_\_\_ SDSMT X \_\_\_ SDSU X \_\_\_ USD

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Indicate (X) the universities that offer the common course.

BHSU  DSU  NSU  SDSMT  SDSU  USD

**Section 1. Course Title and Description**

If changing from a course that previously had only a lecture or laboratory component to a composite course, identify both the course and laboratory numbers (xxx and xxxL) and credit hours associated with each.

<u>Prefix &amp; No.</u>	<u>Course Title</u>	<u>Credits</u>
MATH 571	Numerical Analysis I	3

Course Description as it currently appears in the system common course database:  
Analysis of rounding errors, numerical solutions of nonlinear equations, numerical differentiation, numerical integration, interpolation and approximation, numerical methods for solving linear systems.

**Section 2. Modification(s) Requested**

Check all revisions that apply and provide detailed information in the Current and Revised fields below. Provide the complete course description as it currently appears in the system common course database. If changing a course that previously had only a lecture or laboratory component

**SOUTH DAKOTA BOARD OF REGENTS  
Revised Course Request: Unique Course**

This form is to be used to request a substantive change in a unique course.

<u>SDSU</u> Institution	<u>Math &amp; Stat Dept</u> Division/Department	<u>Laurie Stenberg Nichols</u> Institutional Approval Signature	<u>7/16/10</u> Date
<u>Kurt Cogswell</u> Form Initiator		<u>Lewis F. Brown</u> Dean's Approval Signature	<u>5/24/10</u> Date

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**Section 1. Current Course Title and Description**

If changing from a course that previously had only a lecture or laboratory component to a composite course, identify both the course and laboratory numbers (xxx and xxxL) and credit hours associated with each.

<u>Prefix &amp; No.</u>	<u>Course Title</u>	<u>Credits</u>
MATH 671	Numerical Analysis II	3

Course Description as it currently appears in the system course database:  
Continuation of Math 571 including approximation theory, matrix iterative methods and boundary value problems for ordinary and partial differential equations. P, Math 571.

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**Section 2. Modification(s) Requested**

**1. This modification will include (check all that apply):**

Term change will be effective: Fall 2010  
academic year/term

Additional minor changes also proposed at this time (enumerate below):  
For a list of minor course modifications, see <http://www.sdbor.edu/administration/academics/aac/guidelines.htm>

Change in CIP code (see Section 3).

**2. Provide a justification for all of the changes noted.**

The proposed code is a new CIP code that is more descriptive of this course.  
Details provided in Section 3 where CIP code changes may be requested.