

ACADEMIC AFFAIRS COUNCIL

AGENDA ITEM: 3 – B (3)

DATE: March 31, 2016

SUBJECT: Course Modifications – NSU

Northern State University has submitted the following course requests. These are under review by the System Vice President for Academic Affairs. Upon approval, the proposals will move forward to the Executive Director for consideration and be reported on the Interim Actions report for the May Board meeting.

New Course Requests

- 1) BIOL 345 Biological Statistics
- 2) BIOL 411/411L Gross Anatomy / Lab
- 3) BIOL 448/448L Remote Sensing
- 4) GEOG 436 Biogeography

Authority to Offer an Existing Common Course

- 1) CHEM 452L Inorganic Chemistry Lab
- 2) GEOG 473/473L GIS: Data Creation and Integration and Lab
- 3) GEOG 484/484L Remote Sensing

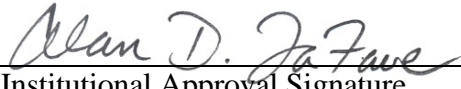
Authority to Offer an Existing Common Course

- 1) GEOG 472/472L Introduction to GIS / Lab

RECOMMENDED ACTION

Approve and move forward to the Executive Director upon final review and approval by the System Vice President for Academic Affairs.

SOUTH DAKOTA BOARD OF REGENTS
New Course Request

NSU	Biology		2/23/16
Institution	Division/Department	Institutional Approval Signature	Date

Section 1. Course Title and Description

If the course contains a lecture and laboratory component, identify both the lecture and laboratory numbers (xxx and xxxL) and credit hours associated with each. Provide the complete description as it will appear in the system common or unique database, including pre-requisites, co-requisites, and registration restrictions.

Prefix & No.	Course Title	Credits
BIOL 345	Biological Statistics	3

This course focuses on making sense of data, both quantitatively and conceptually. Topics include methods to describe data, inferential statistical methods, and regression modeling. Computer exercises will give students the opportunity to use software to analyze data. Pre-requisites: Biology 153, Math 102 (C or higher).

Section 2. Review of Course

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

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

This course will be a common course. (Complete below, then go to Section 3.)

Indicate universities that are proposing this common course:

BHSU DSU NSU SDSMT SDSU USD

Section 3. Other Course Information

1. Are there instructional staffing impacts?

No. Replacement of _____ which is
(prefix, number, name of course, credits)
being deleted. Effective date of deletion: _____

No, schedule management. Explain: This class will be incorporated into Dr. Long's

_____ schedule.

_____ Yes. Specify:

2. Existing program in which course will be offered: Biology

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

Provide a brief justification:

4. Proposed primary delivery: 001 (Face to Face)
(may be found at <http://www.sdbor.edu/administration/academics/aac/guidelines.htm>)

5. Term in which change will be effective: Fall 2016

6. Can this course be repeated for additional credit?
_____ Yes, total credit limit: _____ X No.

7. Will the grade for this course be limited to S/U (pass/fail)? _____ Yes _____ X No

8. Will section enrollments be capped?
X Yes, maximum per section 20 _____ No

9. Will this course be equated (i.e. considered the same course for degree completion) with any other unique or common course in the course database? _____ Yes _____ X No

If yes, indicate the course(s) to which it will be equated.

10. Is this prefix already approved for your university? _____ X Yes _____ No

If no, provide a brief justification:


Section 4. To be completed by Academic Affairs

1. University department code: NBIOL

2. Proposed CIP code: 260101

Is this a new CIP code for this university? _____ X Yes _____ No

SOUTH DAKOTA BOARD OF REGENTS
New Course Request

NSU	Biology		2/23/16
Institution	Division/Department	Institutional Approval Signature	Date

Section 1. Course Title and Description

If the course contains a lecture and laboratory component, identify both the lecture and laboratory numbers (xxx and xxxL) and credit hours associated with each. Provide the complete description as it will appear in the system common or unique database, including pre-requisites, co-requisites, and registration restrictions.

Prefix & No.	Course Title	Credits
BIOL 411/ BIOL 411L	Gross Anatomy/Lab	4

Course Description: BIOL 411: A complete dissection of the human subject will be performed. Enrollment is limited and requires instructor approval. Prerequisites: 3.0 GPA, BIOL 221/221L.

BIOL 411L: Lab to accompany BIOL 411.

Section 2. Review of Course

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

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

This course will be a common course. (Complete below, then go to Section 3.)

Indicate universities that are proposing this common course:

BHSU DSU NSU SDSMT SDSU USD

From: Waller, Steve
Sent: Monday, November 30, 2015 4:09 PM
To: Ramsay, Jodie <Jodie.Ramsay@northern.edu>
Subject: RE: NSU request

Hi,

I have no problem with that. We may need to change prerequisites though as they are quite specific for USD's situation.

Steve

COURSE FORM #5
Updated 03/2007

Steven Waller, PhD
 Associate Dean of Basic Biomedical Sciences
 Associate Professor of Pharmacology
 Sanford School of Medicine
 The University of South Dakota
 202C Lee Medicine Building
 414 East Clark Street
 Vermillion, South Dakota 57069
 Phone: 605-658-6323 (new!)
 Fax:605-677-6381

From: Ramsay, Jodie
Sent: Monday, November 30, 2015 3:58 PM
To: Waller, Steve <Steve.Waller@usd.edu>
Cc: Kiesow, Alyssa <Alyssa.Kiesow@northern.edu>
Subject: NSU request

Hello. Dr. Kiesow has been in contact with you regarding having cadavers at NSU. We would like to offer Gross Anatomy (in your catalog, Anat 411). Do you have any objection to us offering this a common course, or would you prefer that we create a new course?

Thank you! Jodie

Jodie Ramsay, Ph.D.
 Professor of Biology & Department Chair
 Northern State University
 Aberdeen, SD 57401

Section 3. Other Course Information

1. Are there instructional staffing impacts?

_____ No. Replacement of _____ which is
 (prefix, number, name of course, credits)
 being deleted. Effective date of deletion: _____

 X No, schedule management. Explain: Schedule Rotation

_____ Yes. Specify:

2. Existing program in which course will be offered: Biology

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

Provide a brief justification:

4. Proposed primary delivery: 001 (Face to Face Term)

(may be found at <http://www.sdbor.edu/administration/academics/aac/guidelines.htm>)

5. Term in which change will be effective: Spring 2017

6. Can this course be repeated for additional credit?
Yes, total credit limit: _____ No.

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

8. Will section enrollments be capped?
 Yes, maximum per section 10 _____ No

9. Will this course be equated (i.e. considered the same course for degree completion) with any other unique or common course in the course database? _____ Yes _____ No

If yes, indicate the course(s) to which it will be equated. _____

10. Is this prefix already approved for your university? _____ Yes _____ No

If no, provide a brief justification:

Section 4. To be completed by Academic Affairs

1. University department code: NBIOL

2. Proposed CIP code: 260403

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

SOUTH DAKOTA BOARD OF REGENTS
New Course Request

NSU	Biology		3/22/2016
Institution	Division/Department	Institutional Approval Signature	Date

Section 1. Course Title and Description

If the course contains a lecture and laboratory component, identify both the lecture and laboratory numbers (xxx and xxxL) and credit hours associated with each. Provide the complete description as it will appear in the system common or unique database, including pre-requisites, co-requisites, and registration restrictions.

Prefix & No.	Course Title	Credits
BIOL 448/448L	Remote Sensing	4/0
(Cross-list with GEOG 484/484L**, existing courses)		

Course Description:

Applications of remote sensing. Development of remote sensing; instrumentation; and techniques and methodology that will aid in the determination of need and proper utilization of our physical and cultural resources.

**The course is currently listed as a 3-credit lecture. We are requesting that it be offered for variable credit so that we can offer it for 4 credits.

Section 2. Review of Course

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

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

This course will be a common course. (Complete below, then go to Section 3.)

Indicate universities that are proposing this common course:

BHSU DSU NSU SDSMT SDSU USD

Section 3. Other Course Information

1. Are there instructional staffing impacts?

No. Replacement of _____ which is
 (prefix, number, name of course, credits)

being deleted. Effective date of deletion: _____

No, schedule management. Explain: Schedule rotation

_____ Yes. Specify:

2. Existing program in which course will be offered: Biology, Geography (cross-listed course)

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

Provide a brief justification:

4. Proposed primary delivery: 001 (Face to Face)
(may be found at <http://www.sdbor.edu/administration/academics/aac/guidelines.htm>)

5. Term in which change will be effective: Fall 2016

6. Can this course be repeated for additional credit?
_____ Yes, total credit limit: _____ No.

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

8. Will section enrollments be capped?
 Yes, maximum per section 16 _____ No

9. Will this course be equated (i.e. considered the same course for degree completion) with any other unique or common course in the course database? _____ Yes No

If yes, indicate the course(s) to which it will be equated. _____

10. Is this prefix already approved for your university? Yes _____ No

If no, provide a brief justification:

Section 4. To be completed by Academic Affairs

1. University department code: NBIOL

2. Proposed CIP code: 261101

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

SOUTH DAKOTA BOARD OF REGENTS
New Course Request

NSU	History/Geography		3/22/16
Institution	Division/Department	Institutional Approval Signature	Date

Section 1. Course Title and Description

If the course contains a lecture and laboratory component, identify both the lecture and laboratory numbers (xxx and xxxL) and credit hours associated with each. Provide the complete description as it will appear in the system common or unique database, including pre-requisites, co-requisites, and registration restrictions.

Prefix & No.	Course Title	Credits
GEOG 436	Biogeography	3

Course Description:

Biogeography is the study of the spatial distributions of plants and animals through time. The course will examine the distributions of plants and animals from the perspectives of both ecology (biomes, climates, vegetation) and evolutionary history (paleobiology).

This is approval from George White at SDSU to offer GEOG 484 and support to offer a new course, GEOG 346/BIOL 436

Thanks,
Erin

From: White, George
Sent: Tuesday, February 16, 2016 10:57 AM
To: Fouberg, Erin H (NSU)
Subject: RE: NSU common course requests

Erin,

Yes, it would be great if Dr. Long would teach biogeography online. This is not crucial, but is possible for him to teach a 500-level version of the course as well.

I think that the will be students. It's difficult to predict how many and manage growth. I don't know if you saw but our geography online program was recently ranked #3 in the U.S. (<http://www.sdstate.edu/news/articles/online-geography-ranked-third.cfm>). I'm expecting that this will increase enrollments.

When you state that Dr. Long plans to teach 473, I don't have a concern with that. However, does he plan to offer it online? If so, we should coordinate. Right now, we're teaching it online every Fall. We teach 474 online every Spring, At least for now.

As far as GEOG 200, usually Elizabeth Keeler most frequently teaches it for us online. She graduated from Oregon with her PhD in 1994. However, she lives in Minneapolis.

George

Section 2. Review of Course

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

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

This course will be a common course. (Complete below, then go to Section 3.)

Indicate universities that are proposing this common course:

BHSU DSU NSU SDSMT SDSU USD

Section 3. Other Course Information

1. Are there instructional staffing impacts?

No. Replacement of _____ which is
(prefix, number, name of course, credits)
being deleted. Effective date of deletion: _____

No, schedule management. Explain: Course rotation

Yes. Specify:

2. Existing program in which course will be offered: Biology

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

Provide a brief justification:

4. Proposed primary delivery: 001 (Face to Face Term)
(may be found at <http://www.sdbor.edu/administration/academics/aac/guidelines.htm>)

5. Term in which change will be effective: Fall 2016

6. Can this course be repeated for additional credit?
 Yes, total credit limit: _____ No.

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

8. Will section enrollments be capped?
 Yes, maximum per section 16 No

9. Will this course be equated (i.e. considered the same course for degree completion) with any other unique or common course in the course database? Yes No

If yes, indicate the course(s) to which it will be equated. BIOL 436

10. Is this prefix already approved for your university? Yes No

If no, provide a brief justification:

Section 4. To be completed by Academic Affairs

1. University department code: NHISG

2. Proposed CIP code: 450701

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

SOUTH DAKOTA BOARD OF REGENTS
Authority to Offer an Existing Common Course

NSU	Biology		
Institution	Division/Department	Institutional Approval Signature	Date

1. Provide the complete description as it appears in the system common course database including prerequisites.

Prefix & No.	Course Title	Credits
CHEM 452L	Inorganic Chemistry Lab	1

Course Description: Synthesis and characterization of inorganic compounds.
 Co-requisite CHEM 452.

2. Universities currently offering this course:

 X BHSU DSU NSU X SDSMT X SDSU X USD

SDSU has no objection.

David

--

David Cartrette, Ph.D.
 Associate Professor and Interim Department Head
 Chemistry and Biochemistry
 South Dakota State University
 Brookings, SD 57007
 605-688-5151 (v)
 605-688-6364 (fax)

From: Droge, Dale

Sent: Wednesday, January 20, 2016 5:35 PM

To: Ramsay, Jodie; Lamb, Charles; Rice, James; Sinden, Richard R.; Sykes, Andrew

Subject: RE: Chem 452L

Jodie,

No concerns.

Dale

Fine with us at SD MINES.

COURSE FORM #2

3/8/2016

Richard R Sinden, Ph.D.
 Professor and Head
 Director, Biomedical Engineering Graduate Program
 Department of Chemistry and Applied Biological Sciences
 South Dakota School of Mines and Technology

Hi Jodie,
 That's fine... good luck!!

Dr. Charles Lamb, Chair
 School of Natural Sciences
 Pre-Health Professions Advisor
 Black Hills State University
 (605) 642-6026
charles.lamb@bhsu.edu

From: Sykes, Andrew
Sent: Wednesday, January 20, 2016 1:57 PM
To: Ramsay, Jodie
Cc: Koppang, Miles
Subject: RE: Chem 452L

OK with USD, Andy

From: Ramsay, Jodie
Sent: Wednesday, January 20, 2016 10:23 AM
To: Droge, Dale; Lamb, Charles; Rice, James; Sinden, Richard R.; Sykes, Andrew
Cc: Ramsay, Jodie
Subject: Chem 452L

Hi everyone. We'd like to start offering Inorganic Chem lab at NSU. Any objections? If there is someone else I should contact, please let me know.

Thank you, Jodie

Jodie Ramsay, Ph.D.
 Professor of Biology & Department Chair
 Northern State University
 Aberdeen, SD 57401

3. FTE Implication

No. Replacement of _____, which is being deleted
 (prefix, number, name of course,
 credits)
 (Attach deletion form). Effective Date of Deletion: _____

No. Schedule Management, explain: This course will become part of a full-time faculty member's regular course load.

Yes. Specify: _____

4. Existing program in which course will be offered: Chemistry
5. CIP code for the common course 400503
6. Proposed Instructional Method by this university: Laboratory (L)
7. Proposed delivery method by this university: 001 Face to Face Instruction
8. University Dept. Code NCHPH
9. Authority to offer effective beginning in what term? Fall 2016
10. Section Restriction: 24

SOUTH DAKOTA BOARD OF REGENTS
Authority to Offer an Existing Common Course

NSU	History/Geography	<i>Alan D. JaFave</i>	3/22/2016
Institution	Division/Department	Institutional Approval Signature	Date

1. Provide the complete description as it appears in the system common course database including prerequisites.

Prefix & No.	Course Title	Credits
GEOG 473/473L	GIS: Data Creation and Integration and Lab	3/0

Course Description:

This course introduces advanced tools and techniques of data creation, data integration, mapping, and spatial analysis in Geographic Information Systems (GIS). It provides basic approaches for solving problems of data integration including format identification, conversion, and spatial registration. Building on the skills and techniques learned in the introductory GIS course or equivalent, it gives a conceptual base to many methods and techniques associated with vector and raster-based spatial analysis including imagery. It provides an examination of the functions and capabilities of ArcGIS Desktop GIS software (including extensions). Corequisites: GEOG 473L-473/573L-573.

2. Universities currently offering this course:

BHSU	DSU	NSU	SDSMT	X	SDSU	USD
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From: "White, George" <George.White@sdstate.edu>
Date: March 11, 2016 at 1:28:00 PM EST
To: "Fouberg, Erin H (NSU)" <Erin.Fouberg@northern.edu>
Subject: GIS courses

Dear Professor Fouberg,

We in the Department of Geography at South Dakota State University (SDSU) support the following curricular changes proposed by Northern State University (NSU):

- The renumbering of GEOG 472-472L to GEOG 372-372L.

- Making GEOG 372-372L a prerequisite of the other GIS courses (i.e. GEOG 473-473L (GEOG 573-573L), GEOG 474-474L (GEOG 574-574L), GEOG 475-475L (GEOG 575-575L)).
- The creation of GEOG 473-473L at NSU.

George W. White
 Professor and Head
 Dept. of Geography
 Box 506
 Wecota Hall 111
 South Dakota State University
 Brookings, SD 57007
 605-688-4840

3. FTE Implication

No. Replacement of _____, which is being deleted

 (prefix, number, name of course, credits)

(Attach deletion form). Effective Date of Deletion: _____

X No. Schedule Management, explain: Course rotation

Yes. Specify: _____

4. Existing program in which course will be offered: Geography Minor

5. CIP code for the common course 450701

6. Proposed Instructional Method by this university: R (Lecture)/L (Laboratory)

7. Proposed delivery method by this university: 001 Face to face

8. University Dept. Code NHISG

9. Authority to offer effective beginning in what term? Fall 2016

10. Section Restriction: Class capped at 20 students

SOUTH DAKOTA BOARD OF REGENTS
Authority to Offer an Existing Common Course

NSU	History/Geography		3/22/2016
Institution	Division/Department	Institutional Approval Signature	Date

1. Provide the complete description as it appears in the system common course database including prerequisites.

Prefix & No.	Course Title	Credits
GEOG 484/484L	Remote Sensing	3-4/0

Course Description:

Applications of remote sensing. Development of remote sensing; instrumentation; and techniques and methodology that will aid in the determination of need and proper utilization of our physical and cultural resources.

**The course is currently listed as a 3-credit lecture. We are requesting that it be offered for variable credit so that we can offer it for 4 credits.

2. Universities currently offering this course:

BHSU
 DSU
 NSU
 SDSMT
 X
 SDSU
 USD

From: White, George

Sent: Tuesday, February 16, 2016 9:13 AM

To: Fouberg, Erin H (NSU)

Subject: RE: NSU common course requests

Erin,

Thanks for telling me about the new course in biogeography. I wish that there was some way that our students could take it.

I have no objection to the remote sensing course. I don't know if cross-listing it with variable credits will work, but give it a try.

As far as GIS, we don't call it GIS II anymore and it doesn't have the 488 number anymore. It also doesn't have the same course description as before. When we changed 487 to 472, we also changed the other numbers, names, and course descriptions of the other GIS courses. I've pasted them below.

Also, we'd like to list GEOG 472 as a prerequisite for the other GIS courses. I haven't had the chance to pursue this.

Even more importantly, we'd like to lower the number of 472 to something like 372. GIS has become so user friendly. Plus, every year, more and more community colleges and high schools are using it. Moreover, students shouldn't wait until their senior to take this intro course. In fact, many of them are taking it their junior year. So renumbering to a 300-level course would also reflect when students are taking the course. This is especially important because it's not reasonable to tell students to wait until their senior year to take so many of their required courses when they are perfectly capable of taking some of them earlier. So these courses should be numbered more appropriately. What do you think?

George

3. FTE Implication

_____ **No.** Replacement of _____, which is being deleted
 (prefix, number, name of course,
 credits)
 (Attach deletion form). Effective Date of Deletion: _____

No. Schedule Management, explain: Course rotation

_____ **Yes.** Specify: _____

4. Existing program in which course will be offered: Geology and Biology (will be cross-listed with BIOL 448/448L).

5. CIP code for the common course 450701

6. Proposed Instructional Method by this university: Lecture (R) and Laboratory (L)

7. Proposed delivery method by this university: 001 Face to Face Instruction

8. University Dept. Code NHISG

9. Authority to offer effective beginning in what term? Fall 2016

10. Section Restriction: 16

SOUTH DAKOTA BOARD OF REGENTS
Revised Course Request: Common Course

NSU	Arts & Sciences/ Geography		3/22/2016
Institution	Division/Department	Institutional Approval Signature	Date
NSU	Erin H. Fouberg		
Institution	Form Initiator	Dean's Approval Signature	Date
SDSU	Arts & Sciences/ Geography		
Institution	Division/Department	Institutional Approval Signature	Date

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

BHSU	DSU	X	NSU	SDSMT	X	SDSU	USD
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From: "White, George" <George.White@sdstate.edu>

Date: March 11, 2016 at 1:28:00 PM EST

To: "Fouberg, Erin H (NSU)" <Erin.Fouberg@northern.edu>

Subject: GIS courses

Dear Professor Fouberg,

We in the Department of Geography at South Dakota State University (SDSU) support the following curricular changes proposed by Northern State University (NSU):

- The renumbering of GEOG 472-472L to GEOG 372-372L.
- Making GEOG 372-372L a prerequisite of the other GIS courses (i.e. GEOG 473-473L (GEOG 573-573L), GEOG 474-474L (GEOG 574-574L), GEOG 475-475L (GEOG 575-575L)).
- The creation of GEOG 473-473L at NSU.

George W. White
 Professor and Head
 Dept. of Geography
 Box 506
 Wecota Hall 111
 South Dakota State University
 Brookings, SD 57007
 605-688-4840

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
GEOG 472	Introduction to GIS	3
GEOG 472L	Introduction to GIS Lab	0

Course Description as it currently appears in the system common course database:

This course introduces many of the basic concepts of Geographic Information Systems (GIS) and provides an overview of the functions and capabilities of ArcGIS Desktop GIS software and an introduction to the ArcGIS Spatial Analyst extension. It will be taught primarily as a hands-on-course with supplementary lectures, demos, and discussion.

Corequisites: GEOG 472L-472.

Section 2. Modification(s) Requested

		<u>Current</u>		<u>New</u>
X	Course Number change from	472-472L	to	372-372L
X	Corequisites	GEOG 472L-472	to	GEOG 372L-372

**GEOG 473, GEOG 474, and GEOG 475 prerequisite 'Print text' field requires update to reflect GEOG 372.

Justification for all changes noted above:

Since geographic information systems (GIS) were created many years ago, software has become more user-friendly. For example, it required knowledge of DOS commands but now the software is windows-based. The concepts for this GIS are the same but students can now grasp them much more easily because the manipulation of the software is no longer very difficult to understand.

Section 3. Other Course Information

1. Will this course be equated (considered the same course for degree completion) with any

other unique or common course in the course database? Yes No

If yes, indicate the course(s) to which it will be equated.

Section 4. To Be Completed by Academic Affairs

	<u>Current</u>		<u>New</u>
Change in University Dept Code	NHISG, SGEOG	to	No Change
Change in CIP Code	45.0701	to	No Change