

SOUTH DAKOTA BOARD OF REGENTS

Academic and Student Affairs
Consent

AGENDA ITEM: 4 – B (2)

DATE: March 28-30, 2017

SUBJECT: Program Modifications – SDSM&T

South Dakota School of Mines and Technology has submitted the following program modification proposal provided in Attachment I. This request has been reviewed by the system Vice President for Academic Affairs and the Executive Director recommends approval.

Existing Program: Substantive Program Modification

- Interdisciplinary Sciences (BS) – Atmospheric Sciences Specialization – *request to change total credits of elective course work, and total credits of supportive course work*

DRAFT MOTION 20170328_4-B(2): I move to approve SDSM&T’s program modification for its B.S. in Interdisciplinary Sciences program.



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

Substantive Program Modification Program

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

UNIVERSITY:	SDSM&T
CURRENT PROGRAM TITLE:	B.S. in Interdisciplinary Sciences-Atmospheric Sciences Specialization
CIP CODE:	30.9999
UNIVERSITY DEPARTMENT:	Humanities and Social Sciences (Interdisciplinary Sciences)
UNIVERSITY DIVISION:	

University Approval

To the Board of Regents and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.

Dr. Demitris Kouris

Vice President of Academic Affairs or
President of the University

1/31/2017

Date

1. This modification addresses a change in (place an "X" in the appropriate box):

- | | |
|---|---|
| <input type="checkbox"/> Total credits required within the discipline | <input checked="" type="checkbox"/> Total credits of supportive course work |
| <input checked="" type="checkbox"/> Total credits of elective course work | <input type="checkbox"/> Total credits required for program |
| <input type="checkbox"/> Program name | <input type="checkbox"/> Existing specialization |
| <input type="checkbox"/> CIP Code | <input type="checkbox"/> Other (explain below) |

2. Effective date of change: 8/1/2017

3. Program Degree Level (place an "X" in the appropriate box):

Associate Bachelor's Master's Doctoral

4. Category (place an "X" in the appropriate box):

Certificate Specialization Minor Major

5. If a name change is proposed, the change will occur (place an "X" in the appropriate box):

- On the effective date for all students
- On the effective date for students new to the program (enrolled students will graduate from existing program)

Proposed new name: _____

Reminder: Name changes may require updating related articulation agreements, site approvals, etc.

6. Primary Aspects of the Modification (add lines or adjust cell size as needed):

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
CSC	150/ 150 L	Computer Science I/Lab	3	CSC	150/ 150L OR 170/ 170L	Computer Science I/Lab OR Programming for Engineers and Scientists	3
AES	110	Orientation to the Atmospheric Sciences	1			<i>removed</i>	
		Program approved electives	17			Program approved electives	18
CHEM	112/ L	General Chemistry I and Lab	4	CHEM	112/L	General Chemistry I and Lab	4
CHEM	114/ L	General Chemistry II and Lab	4	CHEM	114/L	General Chemistry II and Lab	4
PHYS	211	University Physics I	3	PHYS	211	University Physics I	3
PHYS	213/ L	University Physics II and Lab	4	PHYS	213/L	University Physics II and Lab	4
BIOL	311	Principles of Ecology	3	BIOL	311	Principles of Ecology	3
MATH	123	Calculus I	4	MATH	123	Calculus I	4
MATH	125	Calculus II	4	MATH	125	Calculus II	4
MATH	225	Calculus III	4	MATH	225	Calculus III	4
MATH	321	Differential Equations	3	MATH	321	Differential Equations	3
ENGL	101	Composition I	3	ENGL	101	Composition I	3
ENGL	279	Technical Communications I	3	ENGL	279	Technical Communications I	3
ENGL	289	Technical Communications II	3	ENGL	289	Technical Communications II	3
IS	201	Intro. to Science, Technology and Society	3	IS	201	Intro. to Science, Technology and Society	3
IS	401	Writing and Research in Interdisciplinary Sciences	3	IS	401	Writing and Research in Interdisciplinary Sciences	3
IS	498	Undergraduate Research	3	IS	498	Undergraduate Research	3
AES	201	Introduction to the Atmospheric Sciences	3	AES	201	Introduction to the Atmospheric Sciences	3
AES	404	Atmospheric Thermodynamics	3	AES	404	Atmospheric Thermodynamics	3
AES	450	Synoptic Meteorology I	3	AES	450	Synoptic Meteorology I	3

AES	455	Synoptic Meteorology II	3	AES	455	Synoptic Meteorology II	3
AES	406	Global Environmental Change	3	AES	406	Global Environmental Change	3
AES	401	Atmospheric Physics	3	AES	401	Atmospheric Physics	3
AES	430	Radar Meteorology	3	AES	430	Radar Meteorology	3
AES	460	Atmospheric Dynamics	3	AES	460	Atmospheric Dynamics	3
		Lower Division Hum/Soc. Science electives	12			Lower Division Hum/Soc. Science electives	12
		Upper Division Hum/Soc. Science Electives	12			Upper Division Hum/Soc. Science Electives	12
Total number of hours required for major, minor, or specialization			120	Total number of hours required for major, minor, or specialization			120
Total number of hours required for degree			120	Total number of hours required for degree			120

7. Explanation of the Change:

- 1) We want to give students that option of taking the recently added CSC 170/L to fulfill the program computer science requirement as an alternative to CSC 150/L
- 2) Due to low enrollment, we have not been able to offer AES 110 regularly the last two years. Instead, we have included much of the introductory material typically offered in AES 110 in our AES 201 course, obviating the need for the additional course. To streamline our curriculum this change removes the AES 110 requirement, replacing it with a “program-approved elective”. This changes the total number of elective credits in the degree program from 17 to 18.