

ACADEMIC AFFAIRS COUNCIL

AGENDA ITEM: 3.A (2)

DATE: April 3, 2013

SUBJECT: Program Modifications – SDSU

South Dakota State University has submitted the following program modifications proposals. The modifications are posted on SDSU’s website at the following URL. The proposals will move forward to the April COPS and May BOR meetings. <http://www.sdstate.edu/academic/resource/curriculum/2012-2013/index.cfm>

Existing Program-Substantive Program Modifications

- Biotechnology Major (BS) – *change in the total credits required within the discipline and change in the total credits of elective course work*
- Dance Minor – *change in the distribution of credits, add a new course, and delete the elective section*

RECOMMENDED ACTION

Approve, move forward.

South Dakota Board of Regents

EXISTING PROGRAM: SUBSTANTIVE PROGRAM MODIFICATION

1. **INSTITUTION:** South Dakota State University
 2. **CURRENT PROGRAM NAME:** Biotechnology
 3. **THIS PROPOSAL DEALS WITH A CHANGE IN:**

X total credits required within the discipline X total credits of elective course work

4. **LEVEL:** Bachelor's Degree 5. **CATEGORY:** Major
 6. **EFFECTIVE DATE OF CHANGE:** Fall 2013

8. **PRIMARY ASPECTS OF THE MODIFICATION:**

Existing Curriculum		Proposed Curriculum (Highlight Changes)	
Current Program Name: Biotechnology		Proposed Program Name: Biotechnology	
A. System General Education Requirements	34	A. System General Education Requirements	34
Goal # 1 Written Communication - ENGL 101	3	Goal # 1 Written Communication - ENGL 101	3
Goal # 1 Written Communication - ENGL 201	3	Goal # 1 Written Communication - ENGL 201	3
Goal #2 Oral Communication - Elective from approved list	3	Goal #2 Oral Communication - Elective from approved list	3
Goal #3 Social Sciences/Diversity - Electives from approved list	6	Goal #3 Social Sciences/Diversity - Electives from approved list	6
Goal #4 Humanities and Arts/Diversity - Electives from approved list	6	Goal #4 Humanities and Arts/Diversity - Electives from approved list	6
Goal #5 Mathematics: MATH 121-121L or 123/123L	5	Goal #5 Mathematics: MATH 121-121L or 123/123L	5
Goal #6 Natural Sciences: BIOL 151-151L and 153/153L	8	Goal #6 Natural Sciences: BIOL 151-151L and 153/153L	8
B. SDSU Institutional Requirements	5	B. SDSU Institutional Requirements	5
Goal #1 First Year Experience - First Year Seminar, Biology 109/109L	2	Goal #1 First Year Experience - First Year Seminar, Biology 109/109L	2
Goal #2 Cultural Awareness and Social and Environmental Responsibility - Elective from approved list	3-4	Goal #2 Cultural Awareness and Social and Environmental Responsibility - Elective from approved list	3-4
C. Globalization Requirement		C. Globalization Requirement	
Elective from approved list (may be course used to fulfill other goal)	(0)	Elective from approved list (may be course used to fulfill other goal)	(0)
D. Major Requirements	67-72	D. Major Requirements	72
Biology	57	Biology	63
Chem 112-112L General Chemistry I and Lab	4	Chem 112-112L General Chemistry I and Lab	4
Chem 114-114L General Chemistry II and Lab	4	Chem 114-114L General Chemistry II and Lab	4
Chem 326-326L Organic Chemistry I and Lab	4	Chem 326-326L Organic Chemistry I and Lab	4
Chem 328-328L Organic Chemistry II and Lab	4	Chem 328-328L Organic Chemistry II and Lab	4
Chem 464 Biochemistry I	3	Chem 464 Biochemistry I	3
Chem 466 Lab methods - Biochemistry	1	Chem 466 Lab methods - Biochemistry	1
Phys 111 – 111L Introduction to Physics I and lab	4	Phys 111 – 111L Introduction to Physics I and lab	4
Phys 113 – 113L Introduction to Physics II and lab	4	Phys 113 – 113L Introduction to Physics II and lab	4
Biol 202 Genetics and Organismal Biology	3	Biol 202 Genetics and Organismal Biology	3
Biol 202L Genetics and Organismal Biology	1	Biol 202L Genetics and Organismal Biology	1
Biol 204 Genetics and Cellular Biology	3	Biol 204 Genetics and Cellular Biology	3
Biol 204L Genetics and Cellular Biology	1	Biol 204L Genetics and Cellular Biology	1
Micr 231-231L, General Microbiology & Lab	4	Micr 233-233L, Introductory Microbiology & Lab	4
ABS 205 Biotechnology in agriculture & medicine	2	ABS 205 Biotechnology in agriculture & medicine	2
Stat 281 Introduction to Statistics	3	Stat 281 Introduction to Statistics	3
Advanced Writing Requirement AGEC 479 Agricultural Policy or PS 383-383L Principles Crop Improvement and Lab or any course from the advanced writing list	3	Advanced Writing Requirement AGEC 479 Agricultural Policy or PS 383-383L Principles Crop Improvement and Lab or Engl 379 Technical Communication	3
		Micr 436 Molecular and Microbial Genetics	4
Micr 450 Applied Microbiology and Biotechnology	3	Micr 450 Applied Microbiology and Biotechnology	3

Micr 438L Techniques in Molecular Biology Laboratory	2	Micr 438L Techniques in Molecular Biology Laboratory	2
Biol 383 Bioethics	4	Biol 383 Bioethics	4
		Stat 435 Applied Bioinformatics	2
Advanced Genetics Requirement Select one of the following courses	3-4	Advanced Genetics Requirement Removed requirement	---
Biol / PS 453 Advanced Genetics	3	No longer offered	
Micr 436 Molecular and Microbial Genetics	4	Moved to major requirements	
HO/PS 383/383L Principles of Crop Improvement & Lab	3	Moved to application electives	
Advanced Fundamentals Requirement Select at least one of the following courses	2-4	Advanced Fundamentals Requirement Select a minimum of 3 credits	3
Micr 332 Microbial Physiology	2	Micr 332 Microbial Physiology	2
Micr 332L Microbial Physiology Lab	2	Micr 332L Microbial Physiology Lab	2
Micr 439 Medical and Veterinary Immunology	3	Micr 439 Medical and Veterinary Immunology	3
Biol 373 Evolution	3	remove	
Micr 424 / Vet 424 Medical and Veterinary Virology	3	Micr 424 / Vet 424 Medical and Veterinary Virology	3
Biol 483-483L Developmental Biology and Lab	4	Biol 483-483L Developmental Biology and Lab	4
Vet 223-223L Anatomy and Physiology of Domestic Animals and Lab	4	Vet 223-223L Anatomy and Physiology of Domestic Animals and Lab	4
Application requirements Select at least one of the following courses	2-4	Application requirements Select a minimum of 3 credits	3
ABE 343-343L Engineering Properties of Biological Materials and Lab	3	ABE 343-343L Engineering Properties of Biological Materials and Lab	3
Stat 435-535 Applied Bioinformatics	2	Stat 435-535 Applied Bioinformatics Moved to major requirements	
		HO PS 383/ 383L Principles of Crop Improvement & Lab	3
AS 332 Principles of Livestock Breeding and Genetics	4	AS 332 Principles of Livestock Breeding and Genetics	4
AS 433-433L Livestock Reproduction and Lab	3	AS 433-433L Livestock Reproduction and Lab	3
DS 301-301L Dairy Microbiology and Lab	3	DS 301-301L Dairy Microbiology and Lab	3
DS 411-411L Dairy Breeds and Breeding Lab	3	DS 411-411L Dairy Breeds and Breeding Lab	3
HO 312-312L Plant Propagation and Lab	3	HO 312-312L Plant Propagation and Lab	3
		Micr 440L Infectious Disease Lab	3
Experiential Learning Requirement Minimum 3 credits total required from the following (Prefix could be different if approved by program coordinator)	3+	Experiential Learning Requirement Minimum 3 credits total required from the following (Prefix could be different if approved by program coordinator)	3+
Biot 494 Internship	1-6	Biol or Micr 494 Internship	1-6
Biot 498 Undergraduate Research	1-6	Biol or Micr 498 Undergraduate Research	1-6
Elective Credits Additional credits to reach a total of 120	8-14	Elective Credits Additional credits to reach a total of 120	8-9
Total Major	67-79	Total Major	72
Gen Eds	34 + 5-6	Gen Eds	34 + 5-6
Electives	8-14	Electives	8-9
Total Required Credits	120	Total Required Credits	120
Total number of hours required for major	67-72	Total number of hours required for major	72
Total number of hours required for degree	120	Total number of hours required for degree	120

9. EXPLANATION OF THE CHANGE:

The curriculum modification is requested to update the program coursework and to ensure workplace readiness for the program's graduates. Additional changes in credit distribution are within the major, and do result in an increase in the maximum required credits for the major.

- BIOL/PS 453 has never been offered
- MICR 436 is a co-requisite for the required course Micr 438L
- BIOT prefix had never been approved for coursework
- STAT 435 Applied Bioinformatics is now required as it is a core competency in the biotechnology workplace.

Laurie Stenberg Nichols

Institutional Authorization (President or Designee)

3/26/2013

Date Submitted

South Dakota Board of Regents

EXISTING PROGRAM: SUBSTANTIVE PROGRAM MODIFICATION

1. INSTITUTION: South Dakota State University

2. CURRENT PROGRAM NAME: Dance Minor

3. THIS PROPOSAL DEALS WITH A CHANGE IN: *Distribution of Credits, New Course Addition, Course Deletion*

4. LEVEL: Bachelor's Degree

5. CATEGORY: Minor

6. EFFECTIVE DATE OF CHANGE: Fall 2013

8. PRIMARY ASPECTS OF THE MODIFICATION:

Curriculum

Proposed Curriculum (Highlight Changes)

Program Name: Dance Minor				Proposed Program Name: Dance Minor			
Pre	Num	Title	Cr Hrs	Pre	Num	Title	Cr Hrs
Select at least 12 credits from list of courses			12	Required Credits			18
		DANC 130 - Dance Fundamentals	1			DANC 130 - Dance Fundamentals	1
		DANC 131 - Movement 1	2			DANC 131 - Movement Theory	2
		DANC 132 - Movement 2	2				
		Techniques Electives <i>Take two credits from either group A) or B)</i>	2			Techniques Electives <i>Take four credits from list</i>	4
A)		DANC 230 - Technique 1	1			DANC 230 - Technique 1	2
		and DANC 231 - Technique 2	1			DANC 231 - Technique 2	2
B)		DANC 330 - Technique 3	1			DANC 330 - Technique 3	2
		and DANC 331 - Technique 4	1			DANC 331 - Technique 4	2
		DANC 240 - Multicultural Dance Activities	1			DANC 240 - Multicultural Dance Activities	1
		DANC 241-241L - Creative Movement for Children & Lab	2,0			DANC 241-241L - Creative Movement for Children & Lab	2,0
		DANC 430 - Composition and Choreography ¹	1			DANC 430 - Composition and Choreography	2
		DANC 431 - Dance for the Musical Theatre ¹	1			DANC 431 - Dance for the Musical Theatre	2
						DANC 135-Dance Activities -NEW COURSE <i>Take two semesters of this course</i>	1 (x2)
						DANC 420-Techniques of Teaching Dance	2
Elective Courses in the Minor:			6	Delete The Elective Section			----
		BIOL 221-221L - Human Anatomy and Lab	4				
		MUS 100 - Music Appreciation * ** (COM)	3				
		PE 204 - Professional Preparation: Rhythm & Dance (COM)	1				
		PE 454 - Biomechanics (COM)	3				
		THEA 100 - Introduction to Theatre * (COM)	3				
		THEA 131 - Introduction to Acting * (COM)	3				
		THEA 435 - History of American Musical Theater (COM)	4				
Total number of hours required for minor			18	Total number of hours required for minor			18

9. EXPLANATION OF THE CHANGE:

This request is made to update the program's curriculum and to modify credit load of courses to better reflect hours spent in dance classes.

Laurie Stenberg Nichols

Institutional Authorization (President or Designee)

3/26/2013

Date Submitted