South Dakota Board of Regents

EXISTING PROGRAM: SUBSTANTIVE PROGRAM MODIFICATION

This form is used to request substantive changes in already existing programs (majors, minors, specializations).

total credits required within the discipline total credits of supportive course work total credits of elective course work total credits required for program Other (explain) L: Certificate Associate Degree Bachelor's Degree Major Master's Degree Master's Degree Program name Program name X Existing specialization Other (explain) S. CATEGORY: Minor Major Specialization X Specialization
total credits of elective course work total credits required for program Other (explain) L: Certificate Associate Degree Bachelor's Degree Major Master's Degree Major X Specialization
total credits required for program Other (explain) L: Certificate Associate Degree Bachelor's Degree Major Master's Degree Major X Specialization
Certificate Associate Degree Bachelor's Degree Major X Specialization Master's Degree
Certificate Minor Associate Degree Major Bachelor's Degree X Specialization Master's Degree
Associate Degree Major Bachelor's Degree X Specialization Master's Degree
Bachelor's Degree X Specialization Master's Degree
Master's Degree
_ Doctoral Degree
CTIVE DATE OF CHANGE: Summer 2012

8. PRIMARY ASPECTS OF THE MODIFICATION:

Existing Curriculum Proposed Curriculum (Highlight Changes) Current Program Name: Biology-Pre-Professional Proposed Program Name: Biology-Pre-Professional **Specialization Specialization** A. System General Education Requirements A. System General Education Requirements 33-35 33-35 ENGL 101 Composition I (SGR #1) ENGL 101 Composition I (SGR #1) 3 ENGL 201 Composition II (SGR #1) 3 ENGL 201 Composition II (SGR #1) 3 SPCM 101 Fundamentals of Speech (SGR #2) 3 SPCM 101 Fundamentals of Speech (SGR #2) 3 (SGR #3) Student Choice (SGR #3) Student Choice 6 6 (SGR #4) Student Choice (SGR #4) Student Choice 6 6 MATH 102 and MATH 120 (SGR #5) 4-6 MATH 102 and MATH 120 (SGR #5) 4-6 Or MATH 115 Or MATH 115 Or MATH 121-121L Or MATH 121-121L Or MATH 123 Or MATH 123 Or MATH 123L Or MATH 123L General Biology I and Lab General Biology I and Lab BIOL 151-BIOL 151-4 151L (SGR #6) 151L (SGR #6) BIOL General Biology II and Lab 153- General Biology II and Lab 153-BIOL 4 153L (SGR #6) 153L (SGR #6) B. Institutional General Education Requirements 8-9 B. Institutional General Education Requirements 5 Goal #1 Land and Natural Resources (choose 1) Goal #1 First Year Experience Biology 109/109L First Year Seminar 3 2 **Biol 311** 4 **Biol 383** 3 **ENVM 275** Goal #2 Personal Wellness 2 Goal #2 Cultural Awareness and Social and 3 **Environmental Responsibility** Choose from list Goal #3 Social Responsibility/Cultural & Aesthetic 3 Awareness C. Globalization Requirement C. Globalization Requirement Select course from list on p. 46 of catalog (may be (0) Select course from list on p. 46 of catalog (may be (0) course used to fulfill other goal) course used to fulfill other goal) D. Major Requirements D. Major Requirements **Biology and Microbiology Biology and Microbiology** Biol 202 Genetics and Organismal Biology 3 Biol 202 Genetics and Organismal Biology 3 Biol 202L Genetics and Organismal Biology Biol 202L Genetics and Organismal Biology 1 1 Biol 204 Genetics and Cellular Biology Biol 204 Genetics and Cellular Biology 3 3 Biol 204L Genetics and Cellular Biology 1 Biol 204L Genetics and Cellular Biology 1 Micr 231/231L, General Microbiology & Lab 3 Micr 231/231L, General Microbiology & Lab 3 Biol 290, Seminar Biol 290, Seminar 1 Chemistry Chemistry Chem 112/112L General Chemistry I & Lab Chem 112/112L General Chemistry I & Lab 4 4 Chem 114/114L, General Chemistry II & Lab Chem 114/114L, General Chemistry II & Lab 4 4 Chem 326/326L Organic Chemistry I 4 Chem 326/326L Organic Chemistry I 4 Chem 328/328L Organic Chemistry II Chem 328/328L Organic Chemistry II 4 4 **PHYSICS** (SELECT A OR B) PHYSICS (SELECT A OR B) a. Phys 111/111L, Introductory Physics I & Lab and a. Phys 111/111L, Introductory Physics I & Lab 4 Phys 113/113L, Introductory Physics II & Lab and 4 or 4 or Phys 113/113L, Introductory Physics II & Lab OR b. Phys 101/101L Survey of Physics & lab 9 4 4 b. Phys 101/101L Survey of Physics & lab ⁹ **MATHEMATICS** (SELECT A OR B) MATHEMATICS (SELECT A OR B) a. Stat 281, Statistical Methods a. Stat 281, Statistical Methods 3 or 3 or

b. Math 125, Calculus II

b. Math 125, Calculus II

Advanced Writ	ing Requirement		Advanced Writin	ng Requirement	
Engl 379 Technical Communications		3	Engl 379 Technical Communications		3
Health-related Required Courses			Health-related Required Courses		
Biol 221-	Human Anatomy & Lab ¹	4	Biol 221-	Human Anatomy & Lab ¹	4
221L			221L		
Biol 325-	Physiology & Lab ¹	4	Biol 325-	Physiology & Lab ¹	4
325L			325L		
Micr 439	Med. & Vet.Immunology	3	Micr 439	Med. & Vet. Immunology	
	ed Elective Courses. Take at least	st four (4)		Elective Courses. Take at least	st four (4)
courses from th	ne following list.	Г	courses from the		
			Biol 383	Bioethics	<u>4</u>
Biol/Micr	Independent Study,	3-4	Biol 494,	Internship,	3
491, 494,	Internship,		<mark>498</mark>	Research/Scholarship ²	
498	Research/Scholarship	_			
Chem 464	Biochemistry I	3	Chem 464	Biochemistry I	3
HSc 445	Epidemiology	3			
Micr 311-	Food Micro & Lab	4			
311L		_			
Micr 433	Medical Microbiology	3	Micr 433	Medical Microbiology	3
Micr 424	Medical and Vet.	3	Micr 424	Medical and Vet.	3
	Virology			Virology	
			Micro 436	Molecular and	<mark>4</mark>
			Misses 440I	Microbial Genetics	3
Nurs 323	Dath authorial a arr	2	Micro 440L	Infectious Disease Lab	<u>3</u>
	Pathophysiology	3	DE 454	D:3	2
PE 454	Biomechanics	3 4	PE 454 Zool 423	Biomechanics ³	3 4
Zool 423	Advanced Mammalian	4	Z001 423	Advanced Mammalian	4
	Physiology				
Zool 467-	Parasitology & Lab	3	Biol 467-	Physiology Parasitology & Lab	3
467L	Farasitology & Lau	3	467L	r arasitology & Lab	3
Zool 483-	Developmental Biology	4	Biol 483-	Developmental	4
483L	& Lab	4	483L	Biology & Lab	4
	ended General Electives (If not	t takan ta		nded General Electives (If not	token to
meet core requirements) to complete the 128 credits				quirements) to complete the 120	
	or graduation:	creares	required for		creares
Chem 465	Biochemistry II	3	1		
Chem 466	Biochemistry Lab	1	Chem 466	Biochemistry Lab	2
Hlth 120	Community Health	2	Hlth 120	Community Health	4
Hlth 364-	Emergency Med Tech	4	Hlth 364-	Emergency Med Tech	3
364L	&Lab		364L	&Lab	
			HSc 445	Epidemiology	3
Math 121	Survey of Calculus or	5	Math 121 or	Survey of Calculus or	5 or 4
or	Calc I & II	or	Math 123 &	Calc I & II	
Math 123		4	125		
& 125					
			Nurs 323	Pathophysiology	3
NFS 321	Human Nutrition	3	NFS 321	Human Nutrition	3
Psyc 101	General Psych. or Intro.	3	Psyc 101 or	General Psych. or	3
or 102	to Psych.		102	Intro. to Psych.	

SpCm	Interpersonal	3	SpCm 201	Interpersonal	3
201	Communication			Communication	
Stat 281	Statistical Methods I	3	Stat 281	Statistical Methods I	3
			² Any combination of credits can be used to meet this requirement, as long as the total is at least 3 credits. ³ Recommended only for Pre-Chiro, Pre-OT, and Preprograms		<mark>credits.</mark>

Total number of hours required for major, minor, or specialization		Total number of hours required for major, minor, or specialization	
Total number of hours required for degree	128	Total number of hours required for degree	120

9. EXPLANATION OF THE CHANGE:

The Dept. Curriculum committee re-examined the specialization, placing more departmental courses on the Health-related elective list while moving other options to the recommended general electives. Updated prefixes to match crosslisted courses currently available. Also added a previous IGR course to the Health-related elective list. There is no change to the number of credits required for the specialization.

Laurie Stenberg Nichols	12/13/11
Institutional Authorization (President or Designee)	Date Submitted