

BIOLOGICAL SCIENCES DEGREE: Teacher Licensure Plan effective Fall 2007

01. Written and Oral Communication (8 hrs minimum; at least 4 courses)		Credit Hours
01. ENG 101	Composition One	3
02. ENG 102	Composition Two	3
03. Senior Capstone Experience	See Major Requirements (over)	
04. Upper level Writing Intensive (WI) course		3
ENG 332 or	Advanced Composition	
ENG 333	Technical Writing	
05. Speech Communication (3 hrs) [BSC Department Requirement]		
SCM 111	Oral Communication	3
02. Basic Science and Mathematics (Select 3 hrs)		
01. Laboratory Sciences	See Major Requirements (over)	
02. Mathematics:	Calculus Competency**	
MAT 314 or	Calculus for Arts and Science	3
MAT 167	Calculus I with Analytical Geometry	3
MAT 167: Prerequisites ≥ 26 in Math on ACT or $\geq C$ in MAT 128 or $\geq C$ in MAT 103. MAT 314 [Calculus for the Arts and Sciences]: Prerequisites ≥ 24 in Math on ACT or $\geq C$ in MAT 128 or $\geq C$ in MAT 103. NOTE: Enrollment in MAT 103 or MAT 128 requires ≥ 24 in Math on ACT or $\geq C$ in MAT 101. Enrollment in MAT 101 requires ≥ 20 in Math on ACT or $\geq C$ in MAT 099 [Intermediate Algebra].		
03. Computing Competency	See Other Required Courses (over)	
03. Global History and Culture (12 hrs)		
01. <i>Social Sciences</i> (Select 3 hrs)		
ANT101	The Human Experience	3
GHY 101	World Regional Geography	3
SOC 101	Understanding Society	3
<i>Humanities</i> (9 hrs)		
02. ENG 203	World Literature	3
03. HIS 101	World Civilizations: Beginnings to 1500 C.E.	3
04. HIS 102	World Civilizations: 1500 to the Present	3
04. Aesthetic Values (Select 3 hrs)		
ART 130	The Art Experience	3
DAN 130	Dance Appreciation	3
MUS 365	The Enjoyment of Music	3
THE 100	Theatrical Expressions	3
05. Decision Making and Responsibility (3 hrs)		
PSY 110	General Psychology	3

Core Total: 33 hrs

Minimum of 124 Hours in Program

Minimum of 64 hours required from a four-year college; 45 hours at 300 or 400 level; last 32 hours taken at USM.

06. Major/Emphasis Requirements (35 Hrs)		Credit Hours
01.	BSC 110/BSC 110L Principles of Biological Science I	3/1
02.	BSC 111/BSC 111L Principles of Biological Science II	3/1
03.	BSC 201/BSC 201L General Zoology	3/1
04.	BSC 226/BSC 226L General Botany	3/1
05.	BSC 370 Genetics	4
06.	BSC 380/BSC 380L General Microbiology	3/1
07.	Physiology / Molecular Biology (Select 3 hours)	
	BSC 360 Cellular Physiology	3
	BSC 431 Plant Physiology	3
	BSC 450 Comparative Animal Physiology	3
	BSC 476 Molecular Biology	3
08.	Ecology (Select at least 3 hours)	
	BSC 340 Environmental Biology	3
	BSC 382 Microbial Ecology	3
	BSC 435/435L Plant Ecology	3/1
	BSC 436/436L Conservation Biology	3/1
	BSC 440/440L Ecology	3/1
	BSC 441/441L Population & Community Ecology	3/1
	BSC 442/442L Behavioral Ecology	3/1
	BSC 443/443L Freshwater Biology	3/1
09.	BSC 495/495L Application of Basic Concepts for Secondary School	3/2
07. Other Required Courses (28 hrs)		
01.	CHE 106/CHE 106L General Chemistry I	3/1
02.	CHE 107/CHE 107L General Chemistry II	3/1
03.	CHE 255/CHE 255L Organic Chemistry	3/1
04.	CHE 256/CHE 256L Organic Chemistry	3/2
05.	PHY 111/PHY 111L General Physics I	3/1
06.	PHY 112/PHY 112L General Physics II	3/1
07.	Computing Competency (Select 3 hrs)	
	CSS 240 FORTRAN Programming	3
	CSS 330 Introduction to Programming	3
	CSS 333 Problem Solving Using C, I	3
	CSS 211 Statistical Methods I	3
	PSY 360 Introduction to Statistics for the Behavioral Sciences	3
08. Teacher Education Requirements (29 hrs)		
01.	CIE Classroom Management	3
02.	REF 469 Tests and Measurements	3
03.	SPE 400 The Psychology and Education of the Exceptional Individual	3
04.	CIS 313 Principles of Teaching High School	3
05.	SCE 460 Methods in Teaching Science - Secondary	3
06.	SCE 489 Student Teaching in Science I	7
	SCE 490 Student Teaching in Science II [Senior Capstone Experience]	7
09. Minor Area of Study (Optional)		

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