B.S BIOLOGY / Secondary Education	
Effective Fall 2018. (An overall GPA of 3.0 is re	equired to remain in this concentration.)
GENERAL EDUCATION PROGRAM* (47 credits)	MAJOR REQUIREMENTS (47-48 cr.)
	Biology Requirements (34 cr.)
* Refer to the Undergraduate Catalog to	Core Courses:
determine the specific courses that can be	BIO 161 - Princ. Bio: Cell Structure &
counted under each section.	Function (4) (see gen ed Category N)
	BIO 162 - Princ. Bio: Organismal
ALL STUDENTS are prohibited from counting more	Diversity (4)
than two (2) courses from the same	BIO 208 - Field Biology (3)
participating academic program toward their	BIO 242 - Ecology (3)
General Education Requirements.	BIO 242 BCOTOGY (3) BIO 260 - Genetics (4)
	BIO 200 - Genetics (4) BIO 385 - Cell Biology (3)
	BIO 305 - Cell Biology (3) BIO 430 - Principles of Evolution (3)
FOUNDATIONS (15 credits)	
First Yr. Seminar(3) UNIV 101	BIO 499 - Capstone Seminar in Biology (1)
Academic Writing (3 cr.) ENG 114 or 115	Physiology elective (4 cr.) choose one:
	BIO 350 - Human Physiology (4) OR
Oral Communication (3 cr.) HCS 100	BIO 351 - Animal Physiology (4)
History (3 cr.) HIS 105	bio 331
Quantitative (Q) (3 cr.) MAT 211 (4 cr)	Additional Biology Electives (9 cr.)
(MAT 211 - required by Biology major)	(Only 3 credits of internship/research may be used
	here.)
<pre>INTERCONNECTIONS (9 credits)</pre>	
At least 3 credits each must come from	
the Diversity (D) and from the Global	
Perspectives (G) categories.	
	COGNATE COURSES REQUIRED FOR THE BIOLOGY
Diversity (D)	MAJOR
Global Perspectives (G)	MAUOR
Foreign Language (F) **	Chemistry Requirements (9 cr.)
	CHM 121 - Chemical Bonding (Cat. N) with
	CHM 125 lab IB (1)
CITIZENSHIP & RESPONSIBILITY (6 credits)	CHM 122 - Chemical Dynamics (3) with
Minimum of 2 courses within C&R, with	CHM 126 lab IIB (1)
no more than 1 course attributed to	CHM 221 - Organic Chemistry I (3) with
	CHM 225 lab IIIB (1)
the same program goal.	CHM 227 - Introduction to Biochemistry (4
	† Intro. to Biochemistry is not required but is
Citizenship (S)	strongly recommended.
Ethical Reasoning (E)	
Critical Reasoning (R)	Physics Requirements (1 cr.)
	PHY 121 - Introductory Physics I (Cat. N)
	with PHY 123 - Physics I lab (1)
NATURAL WORLD & TECHNOLOGY (9 credits)	
At least 6 credits must come from the	PHY 122 - Introductory Physics II (3)
Natural World (N) category.	with PHY 125 - Physics II lab $(1)^{++}$
	** Physics II and lab are not required but are
Natural World (N)	strongly recommended.
(10 cr required by Biology major)	Math Daminaments (2 4 sm.)
<u>BIO 161</u> (4 cr)	Math Requirements (3-4 cr.)
CHM 121 (3 cr)	MAT 211 (see Quantitative gen ed)
PHY 121 (3 cr)	MAT 117 - Applied Statistics (3)
	OR MAT 217 - Statistics I (4)
Technology (T) ***	- 5 1 -1 1 - 1 1 10 1
	Professional Education Requirements (33 cr.)
	NOTE: Students must maintain a 3.0 GPA to
CREATIVITY & EXPRESSION (6 credits)	enroll in EDU 440 AND EDU 441.
3 credits must come from the Literature (L)	TCH 207 - Organizational & Psychological
category and the other 3 credits from	Foundations in Secondary Education (3)
either Arts (A) or Creativity (C).	
eremen and (a) of creativity (c).	EEC 273 - Intro. to Exceptionality (3)
Titoraturo (T)	EEC 423 - Effective Instructional
Literature (L)	Strategies (3)
Arts (A)	EEC 483 - Assessing Students for
Creative (C)	Curriculum Decision Making (3)
	EDU 440 - Teaching Science in Secondary
	Schools (3)
	EDU 441 - Curriculum and Evaluation in
** Foreign Language only required for BA majors.	the Secondary Classroom (3)
*** Technology only required for certain majors.	RDG 413 - Teaching Reading to ELL (3)
	EDU 495 - Student Teaching and

Professional Practicum (12)