Office of Registration and Records West Long Branch, NJ 07764 - 1898

BY06EDE08GE08

B.S. in Biology and Education with Endorsement in Elementary Education		
LOGY MAJOR REQUIREME		Credits
	BY110: Principles of Biology BY120: Ecology	4.0 3.0
	BY203: Invertebrate Zoology or BY204: Vertebrate Zoology	3.0
	BY213: Biology of Vascular Plants	3.0
	or BY214: Systematic Botany	3.0
	BY310: Biochemistry and Laboratory	4.0
	BY323: General Microbiology BY370: Cell Biology	4.0
	BY375L: Molecular Cell Biology Lab	2.0
	BY423: Genetics	4.0
	BY424: Evolution	3.
6 Credits of Biology Electives	BY425: Principles of Developmental Biology	4.0
Credits of Blology Electives	BYxxx:BYxxx:	3.
	BY495: Senior Seminar & Portfolio	1.0
UCATION MAJOR REQUIRE		Credits
	ED250: Foundations of Teaching & Learning	3.0
	EDL326: Literacy Instruction in Educational Settings, P-5 EDL327: Literacy Instruction in Educational Setting (5-12)	3. 3.
	EDL327: Elleracy instruction in Educational Setting (3-12) EDL327N: NCATE Assessment	0.
	ED320: Teaching Children with Diverse Needs	3.0
	ED360: Methods of Teaching Elementary Mathematics	3.0
	ED360N: NCATE Assessment	0.
	ED361: Methods of Teaching Science for Elementary School	3.
	ED361N: NCATE Assessment ED362: Teaching Elementary Social Studies	0.0 3.0
	ED362N: NCATE Assessment	0.0
	ED-PRAXIS: Education Praxis II • PRAXIS - 10014	0.0
9 credits as follows:	ED416: Student Teaching (9 aredite) AND	
	ED416: Student Teaching (8 credits) AND ED416S: Seminar in Student Teaching (1 Credit)	
	OR	9.0
	ED417: Supervised Student Teaching (8 credits) AND ED417S:Seminar in Supervised Stud. Teaching (1 credit)	
LOGY OUTSIDE THE MAJO	R REQUIREMENTS: 30 Credits	Credits
	MA115: Math Models in Biology (a)	3.0
	MA151: Statistics with Applications	3.0
	CE111: General Chemistry	3.0
	CE111L:General Chemistry Lab CE112: General Chemistry	1.0 3.0
	CE112: General Chemistry CE112L:General Chemistry Lab	1.0
	CE241: Organic Chemistry	3.0
	CE241L:Organic Chemistry Lab	2.
	CE242: Organic Chemistry	3.0
	PH105: Physics for the Life Sciences PH105L:Physics for the Life Sciences Lab	3.0 1.0
	PH106: Physics for the Life Sciences	3.0
	PH106L:Physics for the Life Sciences Lab	1.0
UCATION OUTSIDE THE MA	JOR REQUIREMENTS: 9 Credits	Credits
	PY103: Introduction to Psychology	3.0
	PY201: Educational Psychology PY203: Child Psychology	3.0 3.0
) May substitute MA116 or N		

Office of Registration and Records West Long Branch, NJ 07764 - 1898

BY06EDE08GE08

B.S. in Biology and Education with Endorsement in Elementary Education **GENERAL EDUCATION REQUIREMENTS: 33 Credits** Credits English EN101: College English I 3.0 EN102: College English II 3.0 Literature EN201: Literature I 3.0 EN202: Literature II 3.0 History HS101: Western Civilization In World Perspective I 3.0 HS102: Western Civilization In World Perspective II 3.0 Information Technology IT102: Information Technology for Scientists 3.0 Critical Discourse HU201: Critical Discourse (waived) 0.0 Science Fulfilled in Major Requirements 0.0 Mathematics Fulfilled in Requirements Outside Major 0.0 Social Science Choose one course from among the following: 3.0 (partially fulfilled in Outside any 100-level course in AN, GO, PS, SO; BE201, BE202, GS225 the Major Requirements) Aesthetics AR101: Art Appreciation MU101: Music Appreciation 3.0 TH101: Theater Appreciation or DA101: Dance Appreciation Cross Cultural One course chosen from the set of approved courses 3.0 3 credits in the same foreign language Perspectives **PRxxx** 3.0 **Experiential Education** EX001 0.0 Demonstration of WP001 0.0 Writing Proficiency Writing Intensive Two Biology (BY) courses designated as course type WT 0.0 Requirement 0.0 Two Education (ED, EDL, EDS) courses designated 0.0 as course type WT 0.0

TOTAL CREDITS FOR B.S. IN BIOLOGY AND EDUCATION WITH ENDORSEMENT IN ELEMENTARY EDUCATION = 146.0

ADDITIONAL ENDORSEMENTS AVAILABLE:

(Please review Endorsement Charts for Requirements)

- TSD Teacher of Students with Disabilities Elementary (12 credits)
 - ESL Engish as a Second Language Elementary (12 credits)
 - MID-SCI Middle School Science (6 credits)

NOTES:

- * 58 credits must be completed at the 200 level or higher.
- ** Education majors are required to have an overall GPA of 2.75 for State Certification
- ***By state regulation, all Education Majors seeking content area endorsement must complete 12+credits at the 300+ level in the content major.

ORR 05/08