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

BY06EDS08GE08

OLOGY MAJOR REQUIREM	d Education with Endorsement in Secondary Education in	Credits
JEGOT MIAGON NEGOINEM	BY110: Principles of Biology	4.0
	BY120: Ecology	3.0
	DV000 1 1 1 7 1	
	BY203: Invertebrate Zoology  or BY204: Vertebrate Zoology	3.0
	of B1204. Velleblate 200logy	3.0
	BY213: Biology of Vascular Plants	
	or BY214: Systematic Botany	3.0
	BY310: Biochemistry and Laboratory	4.0
	BY323: General Microbiology	4.0
	BY370: Cell Biology	3.0
	BY375L: Molecular Cell Biology Lab BY423: Genetics	2.0 4.0
	BY424: Evolution	3.0
	BY425: Principles of Developmental Biology	4.0
6 Credits of Biology Electives	BYxxx:BYxxx:	3.0 3.0
	D1xxx	3.0
	BY495: Senior Seminar & Portfolio	1.0
UCATION MAJOR REQUIR	EMENTS: 24 Credits	Credits
	ED250: Foundations of Teaching & Learning	3.0
	ED201: Educational Psychology	3.0
	ED204: Adolescent Psychology ED319: Literacy Across the Secondary Curriculum	3.0 3.0
	ED319N:NCATE Assessment	0.0
	ED320: Teaching Children with Diverse Needs	3.0
	ED-PRAXIS: Education Praxis II	0.0
	• PRAXIS - 20235	
	• PRAXIS - 10435	
9 credits as follows	: ED416: Student Teaching (8 credits) AND	
o ordano do ronowo.	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)	
DUCATION METHODS REQUIREMENTS: 6 Credits		
	ED369: Teaching Secondary Science, Part I	3.0
	or ED375: Secondary Teaching Methods Part I	
	EDOZO, Tarakina Casandan, Caianas Dart II	2.0
	ED370: Teaching Secondary Science, Part II  or ED376: Secondary Teaching Methods Part II	3.0
OLOGY OUTSIDE THE MAJ	OR 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	1.0
	CE112: General Chemistry II	3.0
	CE112L: General Chemistry II Lab CE241: Organic Chemistry	1.0 3.0
	CE241L: Organic Chemistry Lab	2.0
	CE242: Organic Chemistry	3.0
	,	3.0
	PH105: Physics for the Life Sciences	
	PH105L: Physics for the Life Sciences Lab	1.0
	PH105L: Physics for the Life Sciences Lab PH106: Physics for the Life Sciences	1.0 3.0
	PH105L: Physics for the Life Sciences Lab PH106: Physics for the Life Sciences PH106L: Physics for the Life Sciences Lab	1.0 3.0 1.0
UCATION OUTSIDE THE M	PH105L: Physics for the Life Sciences Lab PH106: Physics for the Life Sciences	1.0 3.0

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MONMOUTH UNIVERSITY CURRICULUM CHARI

SENERAL EDUCATION REQU	JIREM	ENTS: 33 Credits	Credits
English		EN101: College English I EN102: College English II	3.0 3.0
Literature		EN201: Literature I EN202: Literature II	3.0 3.0
History		HS101: Western Civilization In World Perspective I HS102: Western Civilization In World Perspective II	3.0 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 (partially fulfilled in Outside the Major Requirements)		Choose one course from among the following: any 100-level course in AN, GO, PS, SO; BE201, BE202, GS225	3.0
Aesthetics	or	AR101: Art Appreciation MU101: Music Appreciation TH101: Theater Appreciation DA101: Dance Appreciation	3.0
Cross Cultural	or	One course chosen from the set of approved courses 3 credits in a foreign language	3.0
Perspectives		PRxxx	3.0
Experiential Education		EX001	0.0
Demonstration of Writing Proficiency		WP001	0.0
Writing Intensive Requirement		Two Biology (BY) courses designated as course type WT	0.0
		Two Education (ED, EDL, EDS) courses designated as course type WT	0.0

TOTAL CREDITS FOR B.S. IN BIOLOGY AND EDUCATION WITH ENDORSEMENT IN SECOND EDUCATION IN BIOLOGY= 140.0

## **ADDITIONAL ENDORSEMENTS AVAILABLE:**

(Please review Endorsement Charts for Requirements)

- TSD Teacher of Students with Disabilities Secondary (15 credits)
  - ESL English as a Second Language Secondary (12 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

**Teacher of Biological Science 7-12 Certification** 

ORR 05/08