CP09EDE09GE09

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

with Endo	rsem	B.S. in Chemistry and Education ent in Elementary Education and Physical Sciences		
CHEMISTRY MAJOR REQUIREMENTS: 35 Credits (a)				
		CE111: General Chemistry I	3.0	
		CE111L: General Chemistry I Lab	1.0	
		CE112: General Chemistry II	3.0	
		CE112L: General Chemistry II Lab	1.0	
		CE221: Quantitative Analysis	2.0	
		CE221L: Quantitative Analysis Lab	2.0	
		CE241: Organic Chemistry I	3.0	
		CE241L: Organic Chemistry I Lab	2.0	
		CE242: Organic Chemistry II	3.0	
		CE242L: Organic Chemistry II Lab	2.0	
		CE311: Chemical Literature	1.0	
		CE322: Instrumental Analysis	4.0	
		CE372: Physical Chemistry: Intro. To Spectroscopy and	3.0	
		Quantum Chemistry		
		CE372L: Physical Chemistry: Intro. To Spectroscopy and Quantum Chemistry Lab	1.0	
		CE410: Seminar	1.0	
		CExxx: 3 credit 400-Level Elective (except CE499)	3.0	
UCATION MAJOR REQUI	REMEN	ITS: 30 Credits (b)	Credits	
		ED250: Foundations of Teaching & Learning	3.0	
		EDL326: Literacy Instruction in K-5 in Educational Settings I	3.0	
		EDL327: Literacy Instruction in K-5 Educational Settings II	3.0	
		EDL327N: NCATE Assessment	0.0	
		ED320: Teaching Students with Diverse Needs	3.0	
		ED360: Methods of Teaching Elementary Mathematics	3.0	
		ED360N: NCATE Assessment	0.0	
		ED361: Methods of Teaching Science for Elementary School ED361N: NCATE Assessment	3.0 0.0	
		ED361N. NCATE Assessment ED362: Teaching Elementary Social Studies	3.0	
		ED362N: NCATE Assessment	0.0	
		ED-PRAXIS: Education Praxis II • PRAXIS - 10014	0.0	
9 credits as follows:		ED416: Student Teaching (8 credits) <u>AND</u> ED416S: Seminar in Student Teaching (1 Credit)		
	OR	FRACE OF THE AND	9.0	
		ED417: Supervised Student Teaching (8 credits) AND ED417S: Seminar in Supervised Stud. Teaching (1 credit)		
IEMISTRY OUTSIDE OF T	HE MA	JOR REQUIREMENTS: 24 Credits		
		MA125: Calculus with Analytic Geometry I	4.0	
		MA126: Calculus with Analytic Geometry II	4.0	
		PH211: General Physics and Calculus I	4.0	
		PH211L: General Physics with Calculus I Lab	1.0	
		PH212: General Physics with Calculus II	4.0	
		PH212L: General Physics with Calculus II Lab	1.0	
		PH301: Modern Physics	3.0	
		PH302: Applied Physics	3.0	
UCATION OUTSIDE OF T	HE MA	JOR REQUIREMENTS: 9 Credits		
		PY103: Introduction to Psychology	3.0	
		PY201: Educational Psychology	3.0	
		PY206: Child & Adolescent Development / the ACS should enroll in the BS.CE ACS program	3.0	

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GENERAL EDUCATION REC	QUIREM		Credits		
English		EN101: College English I EN102: College English II	3.0 3.0		
Literature		EN201: Literature I	3.0		
		EN202: Literature II	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 form among the following: any 100-level courses 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 sent 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 Chemistry (CE) courses designated as course type WT Two Education (ED, EDL, EDS) courses designated as course type WT	0.0 0.0 0.0 0.0		

TOTAL CREDITS FOR B.S. IN CHEMISTRY AND EDUCATION WITH ENDORSEMENT IN ELEMENTARY EDUCATION IN PHYSICAL SCIENCES = 131.0

ADDITIONAL ENDORSEMENTS AVAILABLE:

(Please review Endorsement Charts for Requirements)

- TSD Teacher of Students with Disabilities Elementary (12 credits) K12.TSD.09
 - ESL English as a Second Language Elementary (12 credits) ELE.ESL.09
 - MID-SCI Middle School Science (6 credits) MID.SCI.09
 - P-3 Early Childhood Endorsement (13 credits) ELE.P3.09
- Teacher of Supplemental Instruction in Reading/Mathematics K-8 (3 credits) ELE.READ.MATH.09
- * 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.