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

CE00EDS08GE08

NISTRY MAJOR REQUIREN	MENTS: 34 Credits (a)	Credit
	CE111: General Chemistry I	3.
	CE111L: General Chemistry I Lab	1.
	CE112: General Chemistry I Lab	3.
	CE112L: General Chemistry II Lab	1.
	CE221: Quantitative Analysis	2.
	CE221: Quantitative Analysis Lab	2.
	CE221E. Quantitative Arialysis Lab CE241: Organic Chemistry I	3.
		2.
	CE241L: Organic Chemistry I Lab	
	CE242: Organic Chemistry II	3.
	CE242L: Organic Chemistry II Lab	2.
	CE311: Chemical Literature	1.
	CE322: Instrumental Analysis	3.
	CE372: Physical Chemistry: Intro. To Spectroscopy and Quantum Chemistry	3.
	CE372L: Physical Chemistry: Intro. To Spectroscopy and Quantum Chemistry Lab	1.
	CE410: Seminar CExxx: 3 credit 400-Level Elective (except CE499)	1. 3.
ATION MAJOR REQUIRE		Credit
ATION WAJOR REQUIRE		
	ED250: Foundations of Teaching & Learning	3.
	ED201: Educational Psychology	3.
	ED204: Adolescent Psychology	3.
	ED319: Literacy Across the Secondary Curriculum	3.
	ED319N: NCATE Assessment	
	ED320: Teaching Children with Diverse Needs	3.
	ED-PRAXIS: Education Praxis II	0.
	• PRAXIS - 20245	
	• PRAXIS - 10435	
9 credits as follows:	ED416: Student Teaching (8 credits) AND	
	ED416S: Seminar in Student Teaching (1 Credit)	
	OR	9.
		J.
	ED417: Supervised Student Teaching (8 credits) AND	
	ED417S: Seminar in Supervised Stud. Teaching (1 credit)	
ATION METHODS REQUIR		Credit
	ED369: Teaching Secondary Science, Part I	3.
	or ED375: Secondary Teaching Methods Part I	
	ED370: Teaching Secondary Science, Part II	3.
	or ED376: Secondary Teaching Methods Part II	J .
MISTRY OUTSIDE OF THE	MAJOR REQUIREMENTS: 18 Credits	
IISTRY OUTSIDE OF THE		1 4
	MA125: Calculus with Analytic Geometry I	4.
	MA126: Calculus with Analytic Geometry II	4.
	MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I	4.
	MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I PH211L: General Physics with Calculus I Lab	4. 1.
	MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I PH211L: General Physics with Calculus I Lab PH212: General Physics with Calculus II	4. 1. 4.
	MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I PH211L: General Physics with Calculus I Lab	4.
ATION OUTSIDE THE MA	MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I PH211L: General Physics with Calculus I Lab PH212: General Physics with Calculus II	4. 1. 4.
CATION OUTSIDE THE MA	MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I PH211L: General Physics with Calculus I Lab PH212: General Physics with Calculus II PH212L: General Physics with Calculus II Lab	4. 1. 4.
CATION OUTSIDE THE MA	MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I PH211L: General Physics with Calculus I Lab PH212: General Physics with Calculus II PH212L: General Physics with Calculus II Lab  JOR REQUIREMENTS: 3 Credits  PY103: Introduction to Psychology	4. 1. 4. 1.
	MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I PH211L: General Physics with Calculus I Lab PH212: General Physics with Calculus II PH212L: General Physics with Calculus II Lab  JOR REQUIREMENTS: 3 Credits  PY103: Introduction to Psychology	4. 1. 4. 1.
	MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I PH211L: General Physics with Calculus I Lab PH212: General Physics with Calculus II PH212L: General Physics with Calculus II Lab  JOR REQUIREMENTS: 3 Credits  PY103: Introduction to Psychology  Credits	
	MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I PH211L: General Physics with Calculus I Lab PH212: General Physics with Calculus II PH212L: General Physics with Calculus II Lab  JOR REQUIREMENTS: 3 Credits  PY103: Introduction to Psychology  Credits  (b)	4 1 4 1

<sup>(</sup>a) Students desiring certification by the ACS should enroll in the BS.CE ACS program.

 <sup>(</sup>b) The following disciplines are not considered Liberal Arts: Business (BA,BE,BF,BK,BL,BM), Criminal Justice (CJ), Education (ED), Nursing (NU), Physical Education (PE), Free Electives (FE) or Social Work (SW).
 However, BE 201 and BE 202, Micro and Macro Economics are considered Liberal Arts Electives.

## MONMOUTH UNIVERSITY CURRICULUM CHART

## MONMOUTH UNIVERSITY

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

Curriculum Chart 2008-2009

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B.S. in Chemistry and Education with Endorsement in Secondary Education in Chemistry					
GENERAL EDUCATION REQUIREMENTS: 33 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 courses in AN, GO, PS, SO;			
the Major Requirements)		BE201, BE202, GS225.			
Aesthetics		AR101: Art Appreciation			
		MU101: Music Appreciation TH101: Theater Appreciation	3.0		
		DA101: Dance Appreciation			
Cross Cultural		One course chosen from the sent of approved courses	3.0		
	or	3 credits in a foreign language			
Perspectives		PRxxx	3.0		
Experiential Education		EX001	0.0		
Demonstration of Writing Proficiency		WP001	0.0		
Writing Intensive		Two Chemistry (CE) courses designated as course type WT	0.0		
Requirement		T. F. I. (FD FD) FD)	0.0		
		Two Education (ED, EDL, EDS) courses designated as course type WT	0.0 0.0		
			0.0		

TOTAL CREDITS FOR B.S. IN CHEMISTRY AND EDUCATION WITH ENDORSEMENT IN SECONDARY EDUCATION IN CHEMISTRY= 128.0

## **ADDITIONAL ENDORSEMENTS AVAILABLE:**

(Please review Endorsement Charts for Requirements)

- Teacher of Students with Disabilities Secondary (12 credits)
  - 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.
- \*\*\*By state regulation, all Education Majors seeking content area endorsement must complete 12+ credits at the 300+ level in the content major.