PHYSICS EDUCATION (B.S.ED.)

Fail BIO 1111	Course Freshman	Title	Hours
BIO 1111			
& BIOL 1111 and GENERAL BIOLOGY LAB ENG 104 COMPOSITION I or ENIGISTO OF ENIGISTO GENERAL SUPPORT OF ENIGISTO OF ENIGISTO OF COMPOSITION & LITERATURE FOR L. MATH 241 CALCULUS I WITH LABORATORY 3 PHY 198 PHYSICS STUDENT SEMINAR 0.5 UNIV 100 UNIVERSITY SUCCESS 2 Humanities & Fine Arts Option 3 BOSPRING 15.5 Spring *** ENG 105 COMPOSITION II or COMPOSITION 3 or END 112 or COMPOSITION 3 PHY 199 PHYSICS STUDENT SEMINAR 0.5 PHY 211 General Physics I s 4 A PHYL 211 and GENERAL PHYSICS LAB I 4 Humanities & Fine Arts Option 3 16.5 Sophomore *** *** Fall *** *** CHEM 141 and GENERAL CHEMISTRY I and GENERAL CHEMISTRY I and GENERAL CHEMISTRY I and GENERAL PHYSICS LAB II 4 EDCI 100 INTRODUCTION TO EDUCATION 3 Sy PHY 212 General Physics II 4 & CHML 141 and GENERAL		GENERAL BIOLOGY	4
or ENG 103 or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L MATH 241 CALCULUS I WITH LABORATORY 3 PHY 198 PHYSICS STUDENT SEMINAR 0.5 PHY 198 PHYSICS STUDENT SEMINAR 0.5 UNIX 100 UNIXERSITY SUCCESS 2 PHumanities & Fine Arts Option 3 Hours 15.5			7
or ENG 111 or COMPOSITION & LITERATURE FOR L MATH 241 CALCULUS I WITH LABORATORY 3 PHY 198 PHYSICS STUDENT SEMINAR 0.5 UNIV 100 UNIVERSITY SUCCESS 2 Hours 15.5 3 Spring Hours STUDENT SEMINAR 3 ING 105 COMPOSITION II 3 Or ENG 112 Or COMPOSITION 3 MATH 242 CALCULUS II WITH LABORATORY 3 PHY 199 PHYSICS STUDENT SEMINAR 0.5 PHY 211 General Physics I 4 & PHYL 211 and GENERAL PHYSICS LAB I 4 Humanities & Fine Arts Option 3 16.5 Sophomore Fall 4 CHEM 141 and GENERAL CHEMISTRY I 4 & CHML 141 and GENERAL CHEMISTRY LAB 4 EDCI 100 INTRODUCTION TO EDUCATION 3 PHY 212 General Physics II 4 & PHYL 212 General Physics II 4 & PHYL 213 AGENERAL CHEMISTRY II 4 <td>ENG 104</td> <td>COMPOSITION I</td> <td>3</td>	ENG 104	COMPOSITION I	3
MATH 241	or ENG 103	or English Composition I with Co-requisite Support	
PHY 198 PHYSICS STUDENT SEMINAR 0.5 UNIV 100 UNIVERSITY SUCCESS 2 Humanities & Fine Arts Option 3 Hours 15.5 Spring ENG 105 COMPOSITION II 3 or ENG 112 or COMPOSITION 3 MATH 242 CALCULUS II WITH LABORATORY 3 PHY 199 PHYSICS STUDENT SEMINAR 0.5 PHY 211 General Physics I 4 & PHYL 211 and GENERAL PHYSICS LAB I 4 Humanities & Fine Arts Option 3 3 Pathway Option 3 16.5 Sophomore Fail 4 CHEM 141 GENERAL CHEMISTRY I 4 CHEM 141 and GENERAL CHEMISTRY LAB 1 EDCI 100 INTRODUCTION TO EDUCATION 3 PHY 212 General Physics II 4 A PHYL 212 and GENERAL CHEMISTRY II 4 CHEM 142 GENERAL CHEMISTRY II 4 <td< td=""><td>or ENG 111</td><td>or COMPOSITION & LITERATURE FOR L</td><td></td></td<>	or ENG 111	or COMPOSITION & LITERATURE FOR L	
UNIV 100	MATH 241	CALCULUS I WITH LABORATORY	3
Humanities & Fine Arts Option Hours 15.5 Spring		PHYSICS STUDENT SEMINAR	0.5
Hours 15.5	UNIV 100	UNIVERSITY SUCCESS	2
Spring COMPOSITION II 3 ENG 105 COMPOSITION II 3 or ENG 112 or COMPOSITION 3 MATH 242 CALCULUS II WITH LABORATORY 3 PHY 199 PHYSICS STUDENT SEMINAR 0.5 PHY 211 General Physics I 4 & PHYL 211 and GENERAL PHYSICS LAB I Humanities & Fine Arts Option 3 Pathway Option Hours 16.5 Sophomore Fall CHEM 141 GENERAL CHEMISTRY I 4 & CHML 141 and GENERAL CHEMISTRY LAB 4 EDCI 100 INTRODUCTION TO EDUCATION 3 PHY 212 General Physics II 4 & PHYL 212 and GENERAL CHEMISTRY II 4 & PHY 212 and GENERAL PHYSICS LAB II 1 PHY 213 PHYSICS STUDENT SEMINAR 0.5 SS 203 HISTORICAL&CULTURAL FOUNDATNS 3 Pathway Option 3 4 & CHEM 142 GENERAL CHEMISTRY II 4 & CHEM 142 A OW MULTIMEDI	Humanities & Fine Arts	Option	3
ENG 105 or ENG 112 or COMPOSITION II or ENG 112 or COMPOSITION MATH 242 CALCULUS II WITH LABORATORY ATH 242 CALCULUS II WITH LABORATORY PHY 199 PHYSICS STUDENT SEMINAR 0.5 PHY 211 General Physics I A PHYL 211 and GENERAL PHYSICS LAB I Humanities & Fine Arts Option 30 Pathway Option Hours 16.5 Sophomore Fall CHEM 141 GENERAL CHEMISTRY I A CHEMISTRY LAB EDCI 100 INTRODUCTION TO EDUCATION 31 PHY 212 General Physics II A PHYL 212 And GENERAL CHEMISTRY LAB EDCI 100 INTRODUCTION TO EDUCATION 33 PHY 212 General Physics II A PHYL 212 And GENERAL PHYSICS LAB II PHY 298 PHYSICS STUDENT SEMINAR 0.5 SS 203 HISTORICAL&CULTURAL FOUNDATNS 33 Pathway Option Hours 17.5 Spring CHEM 142 GENERAL CHEMISTRY II LAB ETEC 336 ADV MULTIMEDIA IN CLASSROOM Or CSC 118 Or COMPUTER SCIENCE I PHY 299 PHYSICS STUDENT SEMINAR 0.5 SPED 311 EXCEP CHILD & YOUTH IN THE SCHO 31 UNIV 200 CIVIC ENGAGEMENT 11 Humanities & Fine Arts Option Pathway Option Thours 17.5 Junior Fall EDCI 301 CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS ETEC 367 INTRO TO ASSMNT MSRMT & EVALTN 34 PHY 311 THEORETICAL MECHANICS I 35 PHY 398 PHYSICS STUDENT SEMINAR 0.5 Spring PHY 399 PHYSICS STUDENT SEMINAR 0.5 Spring PHY 399 PHYSICS STUDENT SEMINAR 0.5 Spring PHY 390 Hours 15.5 Spring PHY 390 PHYSICS STUDENT SEMINAR 0.5 Spring PHY 390 PHY 390 PHYSICS STUDENT SEMINAR 0.5 Spring PHY 330 METHODS OF EXPERIMENTAL PHYICS 33		Hours	15.5
or ENG 112	Spring		
MATH 242			3
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& CHML 141 and GENERAL CHEMISTRY LAB EDCI 100 INTRODUCTION TO EDUCATION 3 PHY 212 General Physics II 4 & PHYL 212 and GENERAL PHYSICS LAB II			
EDCI 100 INTRODUCTION TO EDUCATION 3 PHY 212 General Physics II 4 & PHYL 212 and GENERAL PHYSICS LAB II PHY 298 PHYSICS STUDENT SEMINAR 0.5 SS 203 HISTORICAL&CULTURAL FOUNDATNS 3 Pathway Option 3 Hours 17.5 Spring CHEM 142 GENERAL CHEMISTRY II 4 & CHML 142 and GENERAL CHEMISTRY II LAB 5 ETEC 336 ADV MULTIMEDIA IN CLASSROOM 3 or CSC 118 or COMPUTER SCIENCE I PHY 299 PHYSICS STUDENT SEMINAR 0.5 SPED 311 EXCEP CHILD &YOUTH IN THE SCHO 3 UNIV 200 CIVIC ENGAGEMENT 1 Humanities & Fine Arts Option 3 Pathway Option 3 Hours 17.5 Junior Fall EDCI 301 CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS ETEC 367 INTRO TO ASSMNT MSRMT & EVALTN 3 PHY 311 THEORETICAL MECHANICS I 3 PHY 351 THERMAL PHYSICS 3 Social & Behavioral Science Option 3 Hours 15.5 Spring PHY 330 METHODS OF EXPERIMENTAL PHYICS 3			4
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### EDCI 301 CLASSROOM MANAGEMENT AND EFFECTIVE LEARNING ENVIRONMENTS ###################################			
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PHY 311 THEORETICAL MECHANICS I 3 PHY 351 THERMAL PHYSICS 3 PHY 398 PHYSICS STUDENT SEMINAR 0.5 Social & Behavioral Science Option 3 Hours 15.5 Spring PHY 330 METHODS OF EXPERIMENTAL PHYICS 3		LEARNING ENVIRONMENTS	
PHY 351 THERMAL PHYSICS 3 PHY 398 PHYSICS STUDENT SEMINAR 0.5 Social & Behavioral Science Option 3 Hours 15.5 Spring PHY 330 METHODS OF EXPERIMENTAL PHYICS 3	ETEC 367	INTRO TO ASSMNT MSRMT & EVALTN	3
PHY 398 PHYSICS STUDENT SEMINAR 0.5 Social & Behavioral Science Option 3 Hours 15.5 Spring PHY 330 METHODS OF EXPERIMENTAL PHYICS 3	PHY 311	THEORETICAL MECHANICS I	3
Social & Behavioral Science Option 3 Hours 15.5 Spring PHY 330 METHODS OF EXPERIMENTAL PHYICS 3	PHY 351	THERMAL PHYSICS	3
Hours 15.5 Spring PHY 330 METHODS OF EXPERIMENTAL PHYICS 3	PHY 398	PHYSICS STUDENT SEMINAR	0.5
Hours 15.5 Spring PHY 330 METHODS OF EXPERIMENTAL PHYICS 3	Social & Behavioral Scie	ence Option	3
Spring PHY 330 METHODS OF EXPERIMENTAL PHYICS 3			15.5
PHY 330 METHODS OF EXPERIMENTAL PHYICS 3	Spring		
	-	METHODS OF EXPERIMENTAL PHYICS	3
			1

PHY 361 PHY 498 Physics Elective Spring EDCI 402 PHY 499	Management MATH MET OF PHYSICS &CHEMISTRY PHYSICS STUDENT SEMINAR Hours CLINICAL INTERNSHIP IN STD TCH PHYSICS STUDENT SEMINAR Hours	3 0.5 3 12.5 12 0.5
PHY 361 PHY 498 Physics Elective Spring EDCI 402	MATH MET OF PHYSICS &CHEMISTRY PHYSICS STUDENT SEMINAR Hours CLINICAL INTERNSHIP IN STD TCH	0.5 3 12.5
PHY 361 PHY 498 Physics Elective Spring	MATH MET OF PHYSICS &CHEMISTRY PHYSICS STUDENT SEMINAR Hours	0.5
PHY 361 PHY 498 Physics Elective	MATH MET OF PHYSICS &CHEMISTRY PHYSICS STUDENT SEMINAR	0.5
PHY 361 PHY 498 Physics Elective	MATH MET OF PHYSICS &CHEMISTRY PHYSICS STUDENT SEMINAR	0.5
PHY 361 PHY 498	MATH MET OF PHYSICS &CHEMISTRY	0.5
PHY 361	MATH MET OF PHYSICS &CHEMISTRY	
	•	3
EDCI 401	Management	
	Unit Planning, Assessment, and Classroom	3
COUN 315	Human Growth and Development	3
Fall		
Senior		
	Hours	13.5
Physics Elective		3
SS 301	INQRY-BASED INSTRN N GEOG & CE	3
RE 310	TCHNG READING IN CONTENT AREAS	3
PHY 399	PHYSICS STUDENT SEMINAR	0.5

Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

Code	Title	Hours		
Physics Elective Options				
Students must chose six (6) hours of Physics Electives from the course list below.				
Any ITEM, ITHM, and MATH course above 244				
ITEM 301	PRINCIPLES OF EMERGENCY MNGT	3		
ITEM 303	COMMUNITY EMERGNCY RESPN TEAM	3		
ITEM 401	APP OF EMRGNCY MNGT CMPTR TEC	3		
ITHM 300	PRIN OF HAZARDOUS MATERLS MNGT	3		
ITHM 402	INDUSTRIAL HYGIENE	3		
ITMA 410	1ST LINE SUPRVSN & FRMAN	3		
CSC 118	COMPUTER SCIENCE I	3		
CSC 119	COMPUTER SCIENCE II	3		
CSC 215	DATA ANALYTICS	3		
CSC 228	DATA STRUCTURES & ALGORITHMS	3		
CSC 235	SECURITY AWARENESS	3		
CSC 245	INTRODUCTION TO BIOINFORMATICS	3		
CSC 330	DATABASE SYSTEMS	3		