CURRICULLUM FOR BACHELOR OF SCIENCE IN CHEMISTRY AND PHYSICS

 $Nanoscience\ Option\ (121-Credit\ Hours)$ Minimum Grade of "C" in ALL Nanoscience, Physics, Chemistry and Mathematics Courses

FALL SEM	IESTER				SPRING S	EMEST	ER	
_			FRES	НМ	AN YEAR			
English Composition I	ENGL	1311	3		English Composition II	ENGL	1321	3
General Chemistry I	CHEM	1330	3		General Chemistry II	CHEM	1340	3
General Chemistry I Lab	CHEM	1130	1		General Chemistry II Lab	CHEM	1140	1
College Algebra OR	MATH	1330	3		Calculus I	MATH	2510	5
College Trigonometry OR	MATH	1340	J		Principles of Biology	BIOL	1455	4
Pre-Calculus	MATH	1550			Timespies of Biology	2102	1100	•
General Psychology OR	PSYC	2300	3					
Intro to Social Sciences	SOCI	1320						
Career & Life Planning	BAS	1120	1					
			14-16					16
			14-10					10
			SODH		ORE YEAR			
Fund of Organia Chamistry	CHEM	2312	3			HIST	2315	3
Fund. of Organic Chemistry Fund. of Organic Chemistry Lab	CHEM	2112	1		U.S. History OR American Government	PSCI	2312	3
Calculus II	MATH	2520	5		Introduction to Nanoscience I	NANO	3310	3
Personal & Social Dev	BAS	1210	2			CHEM	3313	3
	PHYS	3310	3		Biochemistry I	CHEM	3113	1
University Physics I	PHYS	3110	1		Biochemistry I Lab Physical Education Elective OR	HLPE	1110-1125	1
University Physics I Lab	PHIS	3110	1		Learning to Lead 1 (for 1-hr PE)	MLSC	1210	1
						PHYS		2
					University Physics II University Physics II Lab	PHYS	3320 3120	3
			15		University Physics II Lab	PHIS	3120	-
			15					15
				NIOF	RYEAR			
Comp Sci/Vis Basic	CPSC	2322	3		Intro to Computer Program	CPSC	2363	3
Art History Appreciation OR	ART	2340	3		Electricity & Magnetism	PHYS	4311	3
Music History Appreciation	MUSI	2330			Modern Physics	PHYS	4331	3
Mathematical Methods in Physics	PHYS	4361	3		Foreign Language II	MDFL		3
Introduction to Nanoscience II	NANO	3320	3		English Literature	ENGL	2300/2360/236 1	3
Introduction to Nanoscience Lab	NANO	3120	1					
Foreign Language I	MDFL		3					
			16					15
	1		SE	NIOF	RYEAR			
Chemical/Biochemical Principles of Nanoscience	NANO	4312	3		Oral Communication	MCOM	2390	3
Physical Principles of Nanoscience	NANO	4311	3		Nano Research	NANO	4210	2
Introduction to Material Science	NANO	4313	3		Nanoscale Optics and Spectroscopy	NANO	4315	3
Principles of Economics OR	ECON	2310	3		NANO Elective	NANO	1313	3
Introduction to Sociology	SOCI	2310	3		Nano Seminar	NANO	4110	1
Humanities OR	HUMN	2301	3		Personal Health & Safety OR	HLPE	1310	3
Effective Thinking/Logic OR	HUMN	2340	,		Nutrition and Wellness	HUSC	1311	J
Theatre Appreciation	THTR	2324			Tradition and Trainless	11000	1311	
The state of the s	IIII	2321						
			15					15
			13					13



School of Arts and Sciences Department of Chemistry and Physics Bachelor of Science Degree in Chemistry and Physics

Nanoscience Option (121-Credit Hours)
Minimum Grade of "C" in ALL Nanoscience, Physics, Chemistry and Mathematics Courses

DATE OF ENTRY: I.D. N	IUMBER		
NAME:		ADDRESS:	
HOME TELEPHONE:		WORK: CELL:	
COURSE	HRS	COURSE	HRS
General Education Institutional Requireme	nt (3-Hours)	Select any 1 from the following:	1
BAS 1210 Personal and Social Development	2	HLPE 1110 through HLPE 1125 Phys. Educ.	
BAS 1120 Career and Life Planning	1	MLSC 1210: Learning to Lead I (for 1 hour PE)	
Mathematics & Natural Sciences (11-13 Hrs	s)	Communication (12-Hours)	
BIOL 1455 Principles of Biology	4	ENGL 1311 English Composition I	3
CHEM 1330 General Chemistry I	3	ENGL 1321 English Composition II	3
CHEM 1130 General Chemistry I Lab	1	MCOM 2390 Oral Communication	3
Select 1 course from the following:	3-5	Select 1 course from the following:	
MATH 1330 College Algebra		ENGL 2300 Introduction to Literature	3
MATH 1340 College Trigonometry		ENGL 2360 World Literature I	3
MATH 1550 Pre-Calculus I		ENGL 2361 World Literature II	3
Humanities (6-Hours)		Common Core Program Requirement (26-Hours)	
Select 2 courses from the following:	6	CPSC 2322 Special Topics: Visual Basic	3
ART 2340 Art Appreciation		CPSC 2363 Intro. to Business Programming	3
MUSI 2330 Music Appreciation		Foreign Language I	3
HUMN 2301 Humanities		Foreign Language II	3
HUMN 2340 Effective Thinking / Logic		CHEM 1340 General Chemistry II	3
THTR 2324 Theatre Appreciation		CHEM 1140 General Chemistry II Lab	1
Social Sciences (9-Hours)		MATH 2510 Calculus I	5
Select 1 course from the following:	3	MATH 2520 Calculus II	5
HIST 2315 U. S. History to 1877		Common Core Program Requirement (25-Hours)	
HIST 2318 U. S. History Since 1877		PHYS 3310 University Physics I	3
PSCI 2312 American Government		PHYS 3110 University Physics I Lab	1
Select 2 from the following	6	PHYS 3320 University Physics II	3
ECON 2310 Principles of Economics I		PHYS 3120 University Physics II Lab	1
PSYC 2300 General Psychology		CHEM 2312 Fundamentals of Organic Chemistry	3
SOCI 1320 Introduction to Social Science		CHEM 2112 Fundamentals of Organic Chemistry Lab	1
SOCI 2310 Introduction to Sociology		CHEM 3313 Biochemistry I	3
Health & Physical Education (4-Hours)		CHEM 3113 Biochemistry I Lab	1
Select 1 course from the following:	3	PHYS 4361 Mathematical Methods in Physics	3
HUSC 1311 Nutrition and Wellness		PHYS 4311 Electricity & Magnetism	3
HLPE 1310 Personal Health & Safety		PHYS 4331 Modern Physics	3



COURSE	HRS	COURSE	HRS
Nano Core Courses (22-Hours)		NANO 4210 Nano Research	2
NANO 3310 Introduction to Nanoscience I	3	NANO 4110 Nano Seminar	1
NANO 3320 Introduction to Nanoscience II	3	Nano Elective Courses (3-Hrs from the following)	
NANO 3120 Introduction to Nanoscience Lab	3	NANO 4314 Computational Nanoscience	3
NANO 4311 Physical Principles of Nanoscience	3	NANO 4316 Micro/Nano Electronic Devices and Characterization	3
NANO 4312 Chemical/Biochemical Principles of Nanoscience	3	PHYS 5345 Lasers/Optics and Applications	3
NANO 4313 Introduction to Material Science	3	CHEM 4310 Inorganic Chemistry	3
NANO 4315 Nanoscale Optics and Spectroscopy	3	CHEM 5312 Advanced Biochemistry	3
CHECKLIST OF COMPLETION: AAGE (Rising Junior Exam)Exit University College		Senior Comprehensive Exam English Proficiency Exam	
SIGNATURES:			
Student:		Date:	
Advisor:		Date:	
Chair:		Date:	
Dean:		Date:	