DEGRE MAJOR	E: Bach : Biome	elor dical						TOTAL HOURS REQUIRED Hours in General Education Hours in Major Hours in Concentration Hours in Cognate	129 57 25 9 12
Name								Hours in General Electives	
Z No.	-			Date		_		Biology Minor	21
Telepho	ne			Email					
Advisor						_			
COURSE EARNED	COURSE	<u> </u>	COURSE TITLE	CREDIT HOURS	COURSE EARNED	COURS	SE	COURSE TITLE	CREDIT HOURS
			FRESHMAN Semester 1					FRESHMAN Semester 2	
	CHE	111	General Chemistry I Lecture	3		CHE	112	General Chemistry II Lecture	3
		111	General Chemistry I Laboratory	1		CHE	112	General Chemistry II Lab	1
		201	Calculus I	4		MAT	202	Calculus II (Cognate)	4
		102	Reading and Writing in Liberal Arts	3		BIO	112	Introductory Biology II Lecture	3
		111	Introductory Biology I Lecture	3		BIO	112	Introductory Biology II Laboratory	1
	BIO	111	Introductory Biology I Laboratory	1		COM	101	Oral Communication	3
	HPE	001	Health Fitness I	1		HPE	002	Health Fitness II	1
	PRF	070	Swimming Proficiency	0					16
	GEN	099	Whole Person Assessment	0					
	PHP	100	Pre-Health Professions Seminar	1					
			(semester 1 or 2)	17					
			SOPHOMORE Semester 3					SOPHOMORE Semester 4	
	CHE	211	Organic Chemistry I Lecture (F)	3		CHE	212	Organic Chemistry II Lecture (S)	3
	CHE	211	Organic Chemistry I Laboratory (F)	1		CHE	212	Organic Chemistry II Lab (S)	1
	PHY	101	General Physics I Lecture	3		CHE	300	Quantitative Analysis Lecture (S)	2
	PHY	101	General Physics I Laboratory	1		CHE	300	Quantitative Analysis Lab (S)	2
	BIO		Biology Elective Lecture	3		PHY	102	General Physics II Lecture	3
	BIO		Biology Elective Laboratory	1		PHY	102	General Physics II Laboratory	1
	BLIT	110	Survey of Old Testament Literature	3		BLIT	120	Survey of New Testament Literature	3
	HUM	103	Christian Worldview and Culture	3		HUM		Humanities Elective	3
	HPE		HPE Activity	<u>0.5</u> 18.5		HPE	_	HPE Activity	0.5 18.5
	0115		JUNIOR Semester 5			0115	000	JUNIOR Semester 6	
		303	Physical Chemistry I Lecture (F)	3		CHE	303	Physical Chemistry I Lab (S)	1
		400	Chemical Instrumentation Lecture (F)	2		CHE	449	Chemistry Research (S)	1
		400	Chemical Instrumentation Lab (F)	2		CHE		Concentration Elective	3
		459	Biochemistry Lecture	3		BIO		Biology Elective Lecture	3
		459	Biochemistry Lab	1		BIO		Biology Elective Laboratory	1
		370	Methods in Biotechnology	1		COMP		Critical Reading and Writing	3
	HPE		HPE Activity	0.5		HUM	—	Humanities Elective	3
				12.5		HPE Prepai	re for	HPE Activity Summer Internship Program	0.5 0
			*Piashamiatry in you		lsing the MC	AT in An	A	aunt.	15.5
				ommended prior to ta TRY INTERNSHIP DUF	_	•	Ji II-Au	gust.	
			SENIOR Semester 7					SENIOR Semester 8	
		499	Individual Research and Senior Paper (F)	3		CHE	452	Seminar (S)	1
		103	Spirit-Empowered Living	3		CHE	—	Concentration Elective	3
	BIO		Biology Field Course Lecture	3		HUM		Humanities Elective	3
	BIO		Biology Field Course Laboratory	1				General Elective	1
		101	American History	3		PSY		Elective (301, 305, 338)*	3
	PSY	201	Principles of Psychology or	_		GOV	101	Government	3
			Social Sciences Elective*	3		HPE		HPE Activity	0.5
	HPE		HPE Activity	0.5 16.5					14.5

*See pre-med advisor and recommendations on back page.

KEY
(F) Offered in Fall Only
(S) Offered in Spring Only

Biomedical Chemistry Research Concentration

F=Fall Semester

S=Spring Semester

*F=Alternating Fall Semesters *S=Alternating Spring Semesters **MAJOR REQUIREMENTS GENERAL EDUCATION REQUIREMENTS** 57 Credit Hours Required 25 Credit Hours Required Credit Hours For the Spirit Credit Hours Organic Chemistry I Lecture (F) **BLT** 110 Survey of Old Testament Literature 3 CHE 211 3 BLT 120 Survey of New Testament Literature 3 CHE 211 Organic Chemistry I Laboratory (F) 3 Organic Chemistry II Lecture (S) THE 103 Spirit-Empowered Living CHE 212 Organic Chemistry II Laboratory (S) For the Mind CHE 212 Quantitative Analysis Lecture (S) CHE 300 **GEN** 099 Whole Person Assessment 0 CHE 111 General Chemistry I Lecture 3 CHE 300 Quantitative Analysis Laboratory (S) CHE 111 1 Physical Chemistry I Lecture (F) General Chemistry I laboratory CHE 303 CHE 112 General Chemistry II Lecture 3 CHE 303 Physical Chemistry I Laboratory (S) CHF Chemical Instrumentation Lecture (F) 112 General Chemistry II Laboratory 1 CHF 400 CHE 112 General Chemistry II Honors Lab 1 CHE 400 Chemical Instrumentation Laboratory (F) COM 101 **Oral Communication** 3 CHE 449 Chemistry Research (S) COMP 102 Reading and Writing in the Liberal Arts 3 CHE 452 Seminar (S) Individual Research and Senior Paper (F) COMP 303 Critical Reading and Writing (S Junior Year) 3 CHE 499 GOV 101 American Government 3 RESEARCH CONCENTRATION 3 HIS 101 American History MAT 201 Calculus I 4 9 Credit Hours Christian Worldview and Culture 3 HUM 301 9 Humanities Electives (3 required) Choose one or two from the following courses: HUM 222 Organic HUM 233 CHE 454 Recombinant DNA (S) 3 HUM 244 Oncological Chemistry (S) CHE 455 3 HUM 233 CHE 459 Biochemistry Lecture (F)* **HONR 102** CHE 459 Biochemistry Laboratory (S)* Social Sciences Elective (1 required) 3 CHE 473 Synthesis (F) BUS 101 Principles of Economics (F) Choose one or two from the following courses: FIN 244 Personal Financial Planning Analytical/Inorganic/Physical MUS 208 Music in World Cultures CHE 304 Physical Chemistry II (S) 3 PSY 201 Introduction to Psychology CHE 456 Inorganic Chemistry (S) 3 CHE 474 Environmental Analysis (F) SOC 101 Introduction to Sociology 3 SOC 201 Marriage and the Family *Highly recommended by medical schools SOC 323 Child and Family in the **COGNATE REQUIREMENTS** Social Context 12 Credit Hours Required SWK 202 Introduction to Social Work MAT 202 Calculus II For the Body Choose one from the following pairs: PHY 101 General Physics I Lec and Lab (F) Freshman HPE 001 Health Fitness I PHY 102 General Physics II Lec and Lab (S) 1 HPE 002 Health Fitness II 1 070 PRF Swimming Course or Proficiency PHY 111 Physics I Lec and Lab (Calculus Based) (S) PHY 112 Physics II Lec and Lab (Calculus Based) (F) Sophomore **HPE** Activity 0.5 **BIOLOGY MINOR REQUIREMENTS HPE Activity** 0.5 Junior 21 Credit Hours Required **HPE Activity** 0.5 0.5 Introduction to Biology I Lec and Lab **HPF** Activity BIO 111 BIO Introduction to Biology II Lec and Lab Senior 112 **HPE** Activity BIO 0.5 Ecology or Biology field course Lec and Lab 312 HPE Activity 0.5 BIO 370 Methods in Biotechnology **GENERAL ELECTIVES** Choose two from the following courses: 5 Credit Hours Required BIO 310 Microbiology Lec and Lab Choose two from the following courses: BIO 311 Genetics Lec and Lab 4 CSC Introduction to Computing BIO 411 Molecular Cell Biology Lec and Lab 4 111 MAT 211 Differential Equations General and Comparative Physiology Lec and Lab 4 BIO 421 MAT 312 Linear and Matrix Algebra BIO 431 Developmental Biology Lec and Lab 4 MAT 332 Introduction to Biostatistics* BIO 457 Principles of Immunology Lec and Lab *Human Anatomy, Pre-Health Professions Seminar, Human Physiology, Bioethics, Biostatistics, Psychology (301, 305, 338), and/or Human Cadaver Dissection are recommended for medical school.