



Chemistry Core Requirements Comple	eted Credit	SEARCH THE PROPERTY OF THE PRO	mpleted Cred	dit
Chemistry Core (27 semester hours)		English Composition (6 semester hours)		2
CHE 141 General Chemistry I	4	ENG 101 and ENG 102 or ENG 103	3	
CHE 142 General Chemistry II	4		3	}
CHE 303 Organic Chemistry I	3	Literature (3 semester hours - choose one)		
CHE 313 Organic Chemistry I Lab	2	ENG 211/212/213	3	}
CHE 304 Organic Chemistry II	3			
CHE 314 Organic Chemistry II Lab	2	History (6 semester hours - choose one pair)		
CHE 310 Quantitative Chemical Analysis	4	HIS 103 and 104	3	3
CHE 317 Chemical Dynamics	4	HIS 211 and 212	3	3
CHE 431 Chemistry Seminar	1	Bible (6 semester hours)		
Physics (8 semester hours) #		BIB 110	3	3
PHY 251 Fund. of Physics I	4	BIB 120	3	3
PHY 252 Fund. of Physics II	4	Social Sciences (3 semester hours - choose one)		
Mathematics (6 semester hours)		ECO 231/*SOC 205/PLS 201/*PSY 201/	3	3
MAT 121 Cal. w/Analytic Geometry I	3	MLG 205/GBU 151		
MAT 122 Cal. w/Analytic Geometry II	3	Fine Arts (3 semester hours - choose one)		
Technology (3 semester hours - choose one)		ART 125/MUS 125/THE 125	3	3
CSC 114 Introduction to Computer Science	3	Physical Education Activity (2 semester hours)		
CSC 115 Foundations of CS (preferred)		KIN 123 OR two (1-hour) PED activity course	1	L
Communications (3 semester hours)		,	1	L
COM 203 Professional Com. Skills	3	_		
COM 304 Public Speaking or participation in a minimum		Writing Proficiency Exam		
of three hours of research w/an oral presentation at a		ENG 099	0)
professional meeting.		Chapel as specified upon entry		
		Freshmen 4 semesters	0)
DEGREE: ACS BIOCHEMISTRY		Sophomore 3 semesters)
Chemistry (18 semester hours)		Junior 2 semesters	0)
CHE 211 Invest. In Inorganic Chem.	1	Senior 1 semester)
CHE 318 Chemical Energetics	4	Science - Contained in major		
CHE 410 Instrumental Analysis	4	Mathematics - Contained in major		
CHE 411 Advanced Inorganic Chem.	3	Modern Languages - Not required		
CHE 418 Biochem. I: Macromolecules	3	Technology - Contained in major		
CHE 419 Biochem. II: Metabolism	3	Electives:		
(1 or 2 semester hours)				
CHE 420 Bioanalytical Chemistry Lab	1		-	
CHE 421 Biophysical Chemistry Lab	1		-	
Biology (8 semester hours)				
BIO 111 Biology I	4	To Graduate:	-	
BIO 112 Biology II	4	130 Hours		
(3 or 4 semester hours - choose one)	,	39 Hours of 300-400 level courses		
BIO 305 Cell Biology	3	45 - 46 Hours of Chemistry		
BIO 306 Genetics	3	For More Information:	_	
BIO 414 General Microbiology	4	J. Clinton Bailey, II, Chair		
(Suggested)	-	Department of Chemistry and Biochemistry		
BIO 307 Cell and Genetics Lab	2	Mississippi College		
Notes:		P.O. Box 4036, Clinton, MS 39056		
# PHY 151 - 152 may substitute		Email: bailey@mc.edu		
* PSY 201 and SOC 205 recommended for Medical School		Phone: 601.925.3338		
** Students planning to continue their education in a professional		Web: http://www.mc.edu/academics/departm	ants/chamist	/
school should consult those schools for specific admission			3.23	y/
***Qualified Students are encourage to participate in an in				

Major: ACS Biochemistry

FIRST YEAR - FALL	HRS	FIRST YEAR - SPRING	HRS.
CHE 141 F, S1 General Chemistry I with lab	4	CHE 142 Sp, S2 General Chemistry II with lab	4
MAT 121 Calculus w/ Analytical Geometry I	3	MAT 122 Calculus w/ Analytical Geometry II	3
BIO 111 ^F Biology I with lab	4	BIO 112 Sp Biology II with lab	4
ENG 101 English Compostion	3	ENG 102 or 103 English Composition II	3
Core	3	Core	3
Chapel (Freshman Experience)	<u>0</u>	Chapel	<u>O</u>
	17		17
SECOND YEAR - FALL		SECOND YEAR - SPRING	
CHE 303 ^{F, S1} Organic Chemistry I	3	CHE 304 Sp, S2 Organic Chemistry II	3
CHE 313 ^{F, S1} Organic Chemistry II lab	2	CHE 314 Sp, S2 Organic Chemsitry II lab	2
CHE 310 ^{F, Sp} Quantitative Chem. Analysis	4	PHY 251 ^{Sp} Fundamentals of Physics I	4
CSC 115 F, Sp Technology Core	3	CHE 211 Sp Invest.of Inorganic Chemistry	1
Core	4	Chemistry Course or General Elective	3
Chapel	<u>0</u>	COM 203 or 304 Communication Requirement	3
	16	Chapel	<u>O</u>
			16
THIRD YEAR - FALL		THIRD YEAR - SPRING	
CHE 317 ^F Chemical Dynamics	4	CHE 318 Sp Chemical Energetics	4
PHY 252 ^F Fundamentals of Physics II	4	CHE 410 ^{Sp} Instrumental Analysis	4
BIO 305, 306 or 414 Upper Level Biology	3 or 4	Chemistry Course or General Elective	3
Core	<u>4</u>	Core	<u>6</u>
	15 or 16		17
FOURTH YEAR - FALL	NEW YORK	COURTH VEAD SERING	
CHE 418 ^{F, S1} Biochemistry I: Metabolism	2	FOURTH YEAR - SPRING CHE 411 Sp Advanced Inorganic Chemistry	2
* **	3		3
CHE 420 ^F Biochemistry I Laboratory	1	CHE 419 Sp, S2 Biochemistry II: Metabolism	3
Chemistry Course or General Elective	7 .	CHE 431 Sp Chemical Seminar	1
Core	<u>6</u>	Chemistry Course or General Elective	4
	17	Core	<u>4</u> 15
Additional Chemistry Courses		Key	13
CHE 402 ^F Advanced Organic Chemistry	4	F= Fall Semester	
CHE 415 Synthetic Inorganic Chemistry	3	Sp = Spring Semester	
CHE 417 Sp Theoretical Chemistry (Odd yrs.)	3	S1 = First 5 week summer term	
CHE 421 Sp Biochemistry II Laboratory	1	S2 = Second week summer term	
CHE 451 OR 452 F, Sp, S1, S2 Ind. Studies and Rese		52 Second Heart Sammer Certif	
CHE 361, 462, 463 F, Sp, S1, S2 Honors Sequence	1,2,3		
CTL 301, 402, 403	1,2,3		