

DEGREE: CHEMISTRY CAREER

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Chemistry Core Requirements Co	ompleted Credit	College Core Requirements	Completed	Credit
Chemistry Core (27 semester hours)		English Composition (6 semester hours)		
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
CHE 317 Chemical Dynamics	4	HIS 211 and 212		3
CHE 431 Chemistry Seminar	1	Bible (6 semester hours)		
Physics (8 semester hours) #		BIB 110		3
PHY 251 Fund. of Physics I	4	BIB 120		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
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
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
Communications (3 semester hours)				1
COM 203 Professional Com. Skills	3		Waller P. C.	
COM 304 Public Speaking or participation in a minimum	um	Writing Proficiency Exam		
of three hours of research w/an oral presentation at	a	ENG 099		0
professional meeting.		Chapel (4 semesters)		
		Freshmen 4 semesters		0
DEGREE: CHEMISTRY CAREER		Sophomore 3 semesters		0
Four semester hours of Advanced Chemistry		Junior 2 semesters		0
See back of this sheet for choices	4	Senior 1 semester		0
		Science - Contained in major		
Six to Eight semester hours - choose one group		Mathematics - Contained in major		
BIO 111 Biology I	4	Modern Languages - Not required		
BIO 112 Biology II	4	Technology - Contained in major		
OR		Electives:		
MAT 221 Calculus with Analytical Geometry III	3			
MAT 222 Calculus w/ Analytical Geometry IV	3		_	
OR				
Two Courses of Advanced Physics	6 to 8		-3	
See other side for options	3	To Graduate:	-	
	3	130 Hours	: -	
-		39 Hours of 300-400 level courses	1/ •	
		33 Hours of Chemistry		
		For More Information:		
		J. Clinton Bailey, II, Chair		
		Department of Chemistry and Biochemistry		
Notes:		Mississippi College		
# PHY 151 - 152 may substitute		P.O. Box 4036, Clinton, MS 39056		
* PSY 201 and SOC 205 recommended for Medical Sc	hool	Email: bailey@mc.edu		
MAT 207 Statistics is required for UMMC Dental Scho		Phone: 601.925.3338		
Students planning to continue their education in a pr		Web: http://www.mc.edu/academics/depart	rtments/che	mistry/
school should consult those schools for specific admis				
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^{***}Qualified Students are encourage to participate in an independent research project or the Honors Program (see advisor for details)

Major: Chemistry - Career

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
ENG 101 English Compostion	3	ENG 102 or 103 English Composition II	3
BIO 111 ^F Biology I with lab or Elective	4	BIO 112 Sp Biology II with lab OR Elective	4
Core	3	Core	3
Chapel (Freshman Experience)	<u>O</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
CSC 115 ^{F, Sp} Technology Core	3	PHY 251 ^{Sp} Fundamentals of Physics I	4
CHE 310 ^{F, Sp} Quantitative Chem. Analysis	4	COM 203 or 304 Communication Requirement	3
Elective	4	Elective	4
Chapel	<u>0</u>	Chapel	<u>O</u>
	16		16
THIRD YEAR - FALL		THIRD YEAR - SPRING	
CHE 317 ^F Chemical Dynamics	4	Additional Chemistry or General Electives	14
PHY 252 ^F Fundamentals of Physics II	4	Core	3
Core	<u>3</u>		17
	15		
FOURTH YEAR - FALL		FOURTH YEAR - SPRING	
Advanced Chemistry Course	4	CHE 431 ^{Sp} Chemical Seminar	1
Biology, Physics or Math Group	4	Biology, Physics or Math Group	4
General Elective	2	General Elective	7
Core	<u>6</u>	Core	4
	16		16
Advance Chemistry Courses		Math Courses	
CHE 318 ^{Sp} Chemical Energetics	4	MAT 221 ^F Calculus with Analytical Geometry III	3
CHE 402 ^F Advanced Organic Chemistry	4	MAT 222 ^{Sp} Calculus w/ Analytical Geometry IV	3
CHE 410 ^{Sp} Instrumental Analysis	4	Advance Physics Courses	
CHE 411 ^{Sp} Advanced Inorganic Chemistry	3	PHY 301 Modern Physics	3
CHE 415 Synthetic Inorganic Chemistry	3	PHY 401 Quantam Physics	3
CHE 417 ^{Sp} Theoretical Chemistry (Odd yrs.)	3	PHY 406 Electricity and Magnetism I	3
CHE 418 ^{F, S1} Biochemistry I: Metabolism	3	PHY 407 Electrisity and Magnetism II	3
CHE 419 Sp, S2 Biochemistry II: Metabolism	3	Key	
CHE 420 ^F Biochemistry I Laboratory	1	F= Fall Semester	
CHE 421 ^{Sp} Biochemistry II Laboratory	1	Sp = Spring Semester	
CHE 451 OR 452 F, Sp, S1, S2 Ind. Studies and Research	3,3	S1 = First 5 week summer term	
CHE 361, 462, 463 F, Sp, S1, S2 Honors Sequence *	1,2,3	S2 = Second week summer term	
3.3.23			