

DEGREE: CHEMICAL PHYSICS

	ed Credit	College Core Requirements	Completed	Credit
Chemistry Core (27 semester hours)		English Composition (6 semester hours)		2
CHE 141 General Chemistry I	_ 4	ENG 101 and 102 or ENG 103		3
CHE 142 General Chemistry II	_ 4	Literature (2 competer become above one)	-	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 2	History (6 competer hours, shoots one nair)		
CHE 314 Organic Chemistry II Lab CHE 310 Quantitative Chemical Analysis	_ 4	History (6 semester hours - choose one pair) HIS 103 and 104		3
CHE 317 Chemical Dynamics	— ⁴	HIS 211 and 212		3
	— "	Bible (6 semester hours)		3
Physics (Eight semester hours)		BIB 110		3
PHY 251 Fund. of Physics I (preferred)	_ ,	BIB 120		3
PHY 252 Fund. of Physics I (preferred)	— ⁴	Social Sciences (3 semester hours - choose one)	()	3
PHY 151 General Physics I	_ "	ECO 231/*SOC 205/PLS 201/*PSY 201/		3
PHY 152 General Physics II		MLG 205/GBU 151	:	3
Mathematics (Six semester hours)		Fine Arts (3 semester hours - choose one)		
MAT 121 Cal. w/Analytic Geometry I	3	ART 125/MUS 125/THE 125		3
MAT 121 Cal. w/Analytic Geometry II	— 3 3	Physical Education Activity (2 semester hours)		3
Fechnology (Three semester hours - choose one)		KIN 123 or two (1-hour) PED activity course		1
CSC 115 Foundations of CS (preferred)	3	KIN 123 OF TWO (1-HOUR) I ED activity course		1
CSC 114 Introduction to Computer Science			-	1
Communications (Three semester hours)		Writing Proficiency Exam		
COM 203 Professional Com. Skills	3	ENG 099		0
COM 304 Public Speaking or participation in a minimum		Chapel (4 semesters)		Ü
of three hours of research w/an oral presentation at a		Freshmen 4 semesters		0
professional meeting.		Sophomore 3 semesters	-	0
6		Junior 2 semesters		0
DEGREE: CHEMICAL PHYSICS		Senior 1 semester		0
Chemistry (15 semester hours)		Science - Contained in major		
CHE 211 Invest. In Inorganic Chem.	1	Mathematics - Contained in major		
CHE 318 Chemical Energetics	4	Modern Languages - Not required		
CHE 410 Instrumental Analysis	4	Technology - Contained in major		
CHE 411 Advanced Inorganic Chem.	3	Electives:		
CHE 417 Theoretical Chemistry	3		_	
(Three semester hours - choose one)			_	
CHE 418 Biochem. I: Macromolecules	3		_	
CHE 419 Biochem. II: Metabolism			_	
Advanced Mathematics (Six semester hours - choose two)				
MAT 213 Intro.to Linear Algebra	3		_	
MAT 221 Cal. w/Analytic Geometry III	— 3	To Graduate:		
MAT 222 Cal. w/Analytic Geometry IV	_	130 Hours		
Physics (three semester hours)		39 Hours of 300-400 level courses		
	2			
PHY 301 Modern Physics	_ 3	45 - 46 Hours of Chemistry		
Advanced Physics or Mathematics				
(Three semester hours) - choose one		For More Information:		
PHY 401 Quantum Physics	3	J. Clinton Bailey, II, Chair		
MAT 352 Intro. to Differential Equations	_			
MAT 381 Intro. to Numerical Methods		Mississippi College		
CHE 451 Chemical Physics Research		P.O. Box 4036, Clinton, MS 39056		
		Email: bailey@mc.edu		
Notes:		CONTRACTOR		
FPHY 151 - 152 may substitute		Phone: 601.925.3338		
### PSY 201 and SOC 205 recommended for Medical School ### MAT 207 Statistics is required for UMMC Dental School		Web: http://www.mc.edu/academics/depa	rtments/chemis	try/

***Qualified Students are encourage to participate in an independent research project or the Honors Program (see advisor for details)

Students planning to continue their education in a professional

school should consult those schools for specific admission requirements.

Major: Chemical Physics

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
Core	3	Core	3
General Elective or Core	4	General Elective or Core	4
Chapel (Freshman Experience)	<u>0</u>	Chapel	<u>O</u>
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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} Quantatative Chem. Analysis	4	PHY 251 ^{Sp} Fundamentals of Physics II	4
CSC 115 Technology Core	3	CHE 211 Sp Invest.of Inorganic Chemistry	
Advanced Math Course (See Below)	3	Advanced Math Course (See Below)	3
Core	1	Communication Requirement (COM 203 or 304)	3
Chapel	<u>O</u>	Chapel	<u>O</u>
	16		16
THIRD YEAR - FALL	182	THIRD YEAR - SPRING	
Company of the second s	4	and the second s	4
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
Core	<u>7</u>	Core	6
	15	Chemistry Course or General Electives	<u>3</u> 17
			17
FOURTH YEAR - FALL		FOURTH YEAR - SPRING	
CHE 418 Biochem. I: Macromolecules	3	CHE 411 Sp Advanced Inorganic Chemistry	3
Advanced Chemistry Course	4	CHE 431 Sp Chemical Seminar	1
PHY 301 Modern Physics	3	Core	4
Core	<u>6</u>	CHE 417 Sp Theoretical Chemistry (Odd yrs.)	3
	17	Advanced Physics or Mathematics Course	3
			15
Additional Chemistry Course		Math Courses	
CHE 402 ^F Advanced Organic Chemistry	4	MAT 213 ^{Sp} Intro. To Linear Algebra (Odd yrs.)	3
CHE 415 Synthetic Inorganic Chemistry	3	MAT 221 ^F Calculus with Analytical Geometry III	3
CHE 419 Sp, S2 Biochemistry II: Metabolism	3	MAT 222 Sp Calculus w/ Analytical Geometry IV	3
CHE 420 ^F Biochemistry I: Laboratory	1	MAT 353 ^F Intro. to Math Probablility and Stat.	3
CHE 421 ^{Sp} Biochemistry II Laboratory	1		
CHE 361, 462, 463 F, Sp, S1, S2 Honors Sequence	1,2,3		
Advanced Physics or Mathmatics Courses		<u>Key</u>	
PHY 401 Quantum Physics	3	F = Fall Semester	
MAT 352 Intro. to Differential Equations	3	Sp = Spring Semester	
MAT 381 Intro. to Numerical Methods	3	S1 = First 5 week summer term	
CHE 451 Chemical Physics Research 3.3.23	3	S2 = Second week summer term	
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