Grambling State University CHEMISTRY DEPARTMENT

Bachelor of Science

PROFESSIONAL (Concentration) (revised May 28, 2008) Designed using the ACS guidelines

Name:	Catalog:	Advisor:
i tuille.	Cutting.	

Course Number	Course Name	Hrs.	Prerequisite (P) Co-requisite (C)	Grade	Semester / Yr & Faculty Approval
FRESHMAN YEAR					
CHEM 111	General Chemistry	3			
CHEM 113	General Chemistry Laboratory	1	CHEM 111 (C)		
CHEM 112	General Chemistry	3	CHEM 111 (P)		
CHEM 114	General Chemistry Laboratory	1	CHEM 112 (C)		
ENG 101	Freshman Composition I	3	(0)		
ENG 102	Freshman Composition II	3	ENG 101 (P)		
HIST 101	Western Civilization	3			
MATH 153	Calculus I	3			
MATH 154	Calculus II	3	MATH 153 (P)		
BIOL 113/115	Principles of Biology Lecture/Lab	4	, ,		
PHYS 153	General Physics I	4	MATH 153 (C)		
FYE 101	First Year Experience	1	. ,		
FYE 102	First Year Experience	1	FYE 101 (P)		
	TOTAL	33			
SOPHOMORE YEAR					
CHEM 223	Organic Chemistry	3	CHEM 112 (P)		
CHEM 225	Organic Chemistry Laboratory	1	CHEM 223 (C)		
CHEM 224	Organic Chemistry	3	CHEM 223 (P)		
CHEM 226	Organic Chemistry Laboratory	1	CHEM 224 (C)		
CHEM 230	Quantitative Analysis Lecture	3	CHEM 112 (P)		
CHEM 232	Quantitative Analysis Laboratory	2	CHEM 230 (C)		
MATH 201	Calculus III	3	MATH 154 (P)		
ART 210	Fine and Performing Arts	3			
HIST 104	Modern World History	3			
PHYS 154	General Physics II	4	PHYS 153 (P)		
ENG 207	Introduction to Technical Writing	3			
GET 300	Rising Junior Exam	0			
CHEM 236	Practical Inorganic Chemistry	2	CHEM 112 (P)		
	TOTAL	31			

Course Number	Course Name	Hrs.	Prerequisites (P) Co-requisite (C)	Grade	Semester / Yr & Faculty Approval
JUNIOR					
YEAR	Di i I di		CHIENA 220 /222		
CHEM 341	Physical Chemistry	3	CHEM 230/232 MATH 154 (P)		
CHEM 343	Physical Chemistry Laboratory	1	CHEM 341 (C)		
CHEM 342	Physical Chemistry	3	CHEM 341 (P)		
CHEM 344	Physical Chemistry Laboratory	1	CHEM 342 (C)		
MATH 403	Differential Equations	3	MATH 154 (P)		
	Foreign Language	6			
ENG 200	World Literature	3			
CS 110	Computer Science I	3			
CHEM 461	Biochemistry	3	CHEM 224 (P)		
CHEM 451	Seminar	1			
SOC 101	Intro to the Social Sciences	3			
	TOTAL	30			
SENIOR					
YEAR					
CHEM 430	Instrumental Analysis Lecture	3	CHEM 341 (P)		
CHEM 432	Instrumental Analysis Laboratory	2	CHEM 224/230 (P)		
CHEM 434	Inorganic Chemistry	3			
CHEM 450	Independent Study/Research	3	Faculty Approval		
CHEM		4			
Electives*					
ECON 201	Macroeconomics	3	MATH 131 or higher		
EET 202	Electronic Devices I	3			
EET 222	Electronic Devices laboratory	1			
Electives		9			
	TOTAL	31			
	GRAND TOTAL	125			

^{*}Recommended Chemistry Electives: CHEM 410 with CHEM 420 or CHEM 470; or CHEM 462/464.
