Concentration	III: American Chemical Soc	ciety Ce	rtifie	ed – Materials Chemistry Program*	
Core Requirements for All Concentrations ¹ :				(continued from previous column)	
CHEM 131	General Chemistry I	(F,Sp,Su))3	MATH 237 Calculus III (F,Sp,Su) 4	
CHEM 132	General Chemistry II	(Sp,Su,F)	3 (MATH 238 Linear Algebra/Diff. Eqns (F,Sp,Su) 4	
CHEM 135L ²	Special General Chemistry Lab I	(F)	1	Choose One:	
CHEM 136L ²	Special General Chemistry Lab II	(Sp)	2	CHEM 485 Science of the Small (Sp even) 4	
CHEM 241	Organic Chemistry I	(F)	3	ENGR 314 Materials and Mechanics (F,Sp) 4	
CHEM 242	Organic Chemistry II	(Sp)	3	ENGR 498 Adv Topics – Gipson section only (Sp) 3	
CHEM 270	Inorganic Chemistry I	(Sp)	3 3	GEOL 390 Laboratory Techniques in Geol <u>3</u>	
CHEM 287L	Integrated Inorganic/Organic Lab I	(F)	2	29-3	30+
CHEM 288L	Integrated Inorganic/Organic Lab II	(Sp)	2	Electives	
CHEM 331	Physical Chemistry I	(Sp)	3	The well-prepared student is encouraged to take as many of	
CHEM 351	Analytical Chemistry	(F)	4	additional departmental offerings as possible as electives with partic	cular
CHEM 361	Biochemistry I	(F,Sp)	3	attention being given to junior and/or senior research projects.	
CHEM 481	Literature and Seminar I	(F)	1	Credits (Lab F	<u>Irs)</u>
CHEM 482	Literature and Seminar II	(Sp)	1	CHEM 280 Alt Lower-Div Chem Experience (V) 1-4	
MATH 235 ³	Calculus I	(F,Sp,Su)		CHEM 315 Instructional Experiences (F,Sp) 1	
MATH 236	Calculus II	(F,Sp,Su)		CHEM 325 Chemical Hazards and Lab Safety (F odd) 1	
PHYS 240	University Physics I	(F,Sp)		CHEM 353 Environmental Chemistry (Sp,odd) 3	
PHYS 250	University Physics II	(Sp,F)	3	CHEM 354 Environmental Chemistry Field Camp (Su) 3 (50)	
PHYS 240L	University Physic Lab I	(F)	1	CHEM 355 Geochemistry of Natural Waters (F) 3 (22))
PHYS 250L	University Physics Lab II	(Sp)	<u>1</u>	CHEM 362 Biochemistry II (Sp) 3	
		į	50	CHEM 366L Biochemistry Laboratory (Sp) 2 (90)	
				CHEM 390 Problems in Chemistry (F,Sp) 1-3 (45-13	35)
Additional ACS Materials Chemistry Program Requirements ¹ :				CHEM 395 Perspectives in Chem (Industry/Gov't) (F) 1	
	d for all ACS concentrations.			CHEM 440 Intermediate Organic Chemistry (F even) 3	
	nd Program courses in this concentration			CHEM 450 Nuclear and Radiation Chemistry (Sp even) 3	`
	itional lab hours from list of Electives	(V)	1-4	CHEM 450LNuclear & Radiation Chemistry Lab (Sp even)1 (45)	
CHEM 336L	Physical Chemistry I Laboratory	(Sp)	2	CHEM 455 Lasers & Applications to Phys Sci (F even) 3 (22))
CHEM 352	Instrumental Analysis	(Sp)	3	CHEM 470 Inorganic Chemistry II (F) 3	
CHEM 352L	Instrumental Analysis Laboratory	(Sp)	2	CHEM 480 Selected Topics in Chemistry (V) 1-4	100)
CHEM 375	Introductin to Material Science	(F)	3	CHEM 497 Undergrad Chemical Research (F,Sp) 2-4 (90-1	
CHEM 432	Physical Chemistry II	(F)	3	CHEM 499 Honors (F,Sp) 6 (270	J)
CHEM 445	Polymer Chemistry	(F odd)		(F = Fall, Sp = Spring, Su = Summer, V = varied, all are subject to ch	hande
CHEM 445L	Polymer Chemistry Lab	(F odd)	1	(i a.i., op opining, ou outilition, i railou, all dio oubject to of	.a.igo
(continued next column))			¹ These courses may NOT be taken credit / no credit ² CHEM 131L and 132L (2 credits) may substitute for 135L and 136L ³ MATH 231 and 232 (6 credits) may substitute for MATH 235	

Student Name _____ Catalog Year ____ Graduation Year ____

^{*}It is the student's responsibility to meet any required co- or pre- requisites.