

Department of Chemistry
Major in Chemistry (C 50), for Fall 2007 Advising

Name: _____ CSUID: _____ Expected Graduation: _____

Local Address: _____ City/State: _____ / _____ Zip: _____ Tel.: _____

Undergraduate Key Advisor: Lisa Dysleski Room B113F Chemistry Tel. 491-0722 e-mail: ldysl@lamar.colostate.edu

All University Core Curriculum

Core Courses	Credits
1. Basic Competencies	
___ A. Written Communication	3
___ B. Mathematics (MATH 160, Calculus for Physical Scientists I)	4
2. Additional Communication	
___ A. Oral Communication	3
OR	
___ B. Advanced Writing	3

3. Foundations and Perspectives

___ A. Biological/Physical Sciences (BZ 104/105, BZ 110/111, BZ 120, or LIFE 102; and PH 141)	7
___ B. Arts/Humanities	6
___ C. Social/Behavioral Sciences	3
___ D. Historical Perspectives	3
___ E. Global and Cultural Awareness	3

4. Depth and Integration

See required classes for 4A, 4B, and 4C below

Major in Chemistry-Grades of "C-" or higher are required in the following classes.

COURSE	TITLE (semesters offered)	CREDITS	AUCC	PREREQUISITES
Freshman Year:				
___ CHEM 117 and CHEM 192	General Chemistry I (F)	4		MATH 118 or placement in MATH 124 or higher
OR				
___ CHEM 111	General Chemistry I (F,S,SS)	4		MATH 118 or placement in MATH 124 or higher
___ CHEM 112	General Chemistry Laboratory I (F,S,SS)	1		CHEM 111 or concurrent registration
___ CHEM 113	General Chemistry II (F,S,SS)	3		CHEM 107 or CHEM 111; MATH 124
___ CHEM 114	General Chemistry Laboratory II (F,S,SS)	1		CHEM 112; CHEM 113 or concurrent registration
___ MATH 160	Calculus for Physical Scientists I (F,S,SS)	4	1B	MATH 126; MATH 124 or concurrent registration
___ MATH 161	Calculus for Physical Scientists II (F,S,SS)	4	1B	MATH 124; MATH 160
___ Biological Science - choose 4 credits including lab: BZ 104/105, BZ 110/111, BZ 120, LIFE 102 (F,S,SS)		4	3A	none
Sophomore year:				
___ CHEM 261	Fundamentals of Inorganic Chemistry (S)	3		CHEM 113
___ CHEM 345	Organic Chemistry I (F)	4		CHEM 113, CHEM 114
___ CHEM 346	Organic Chemistry II (S)	4		CHEM 345
OR				
___ CHEM 341	Modern Organic Chemistry (F,S)	3		CHEM 113, CHEM 114
___ CHEM 343	Modern Organic Chemistry II (F,S)	3		CHEM 341 or CHEM 245 or CHEM 345
___ CHEM 344	Modern Organic Chemistry Lab (F,S)	2		CHEM 343 or CHEM 346 or concurrent registration
___ PH 141	Physics for Scientists and Eng. I (F,S,SS)	5	3A	MATH 160
___ PH 142	Physics for Scientists and Eng. II (F,S)	5	3A	PH 141; MATH 161 or concurrent registration
___ MATH 261	Calculus for Physical Scientists III (F,S,SS)	4		MATH 161
___ Statistics	STAT 301 or STAT 315	3		(varies)
Junior year:				
___ CHEM 335	Introduction to Analytical Chemistry (F)	3	4A	CHEM 113; <u>concurrent registration in CHEM 332</u>
___ CHEM 332	Quantitative Analysis Laboratory (F)	2		CHEM 114; <u>concurrent registration in CHEM 335</u>
___ CHEM 440	Advanced Organic Chemistry Laboratory (F)	2	4B	CHEM 344 or CHEM 346
___ CHEM 474	Physical Chemistry I (F)	3		CHEM 113; MATH 261; PH 142
___ CHEM 476	Physical Chemistry II (S)	3	4B	CHEM 474
___ CHEM 478	Physical Chemistry Laboratory (S)	2		CHEM 474 or CHEM 471 or CHEM 472; CHEM 332 or CHEM 334 or CBE 333;
Senior year:				
___ CHEM 493	Senior Seminar (varies)	2	4C	CHEM 474
___ CHEM 431	Instrumental Analysis (F)	4		CHEM 332 or CHEM 334; CHEM 474 or CHEM 471 or concurrent registration
___ CHEM 461	Inorganic Chemistry (S)	3		CHEM 261; CHEM 476 or concurrent registration
___ CHEM 462	Inorganic Chemistry Laboratory (S)	2		CHEM 461 or concurrent registration
___ BC 351 or BC 401	Biochemistry (varies)	3 - 4		varies
___ Upper level science electives (varies)		6 - 7		(to make a total of 10 credits when combined with choice of biochemistry)