

Department of Chemistry
Major in Chemistry (C 51), for Fall 2009 Advising

Name: _____ CSUID: _____ Expected Graduation: _____

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

Key Undergraduate Advisor: Lisa Dysleski Room C109 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

** First-time students entering the University after July 01, 2008 **must** take an advanced writing course to fulfill Category 2.**3. Foundations and Perspectives**____ A. Biological/Physical Sciences 7
(BZ 104/105, BZ 110/111, BZ 120, or LIFE 102; and PH 141)

____ B. Arts/Humanities 6

____ C. Social/Behavioral Sciences 3

____ D. Historical Perspectives 3

____ E. Global and Cultural Awareness 3

4. Depth and Integration 8

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

Major in Chemistry-Grades of greater than "D" 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
____ Additional Math - 300 level MATH, CS, or STAT (varies)		3		(varies)
Junior year:				
____ CHEM 335	Introduction to Analytical Chemistry (F,S)	3	4A	CHEM 113; <u>concurrent registration in CHEM 334</u>
____ CHEM 334	Quantitative Analysis Laboratory (F,S)	1		CHEM 114; <u>concurrent registration in CHEM 335</u>
____ CHEM 474	Physical Chemistry I (F)	3		CHEM 113; MATH 261; PH 142; <u>concurrent registration in CHEM 475</u>
____ CHEM 475	Physical Chemistry I Laboratory (F)	1		CBE333 or CHEM332 or CHEM334; <u>concurrent registration in CHEM 474</u>
____ CHEM 476	Physical Chemistry II (S)	3	4B	CHEM 474
Senior year:				
____ CHEM 493	Senior Seminar (varies)	2	4C	CHEM 474
____ CHEM 462	Inorganic Chemistry Laboratory (S)	2		CHEM 461 or concurrent registration
OR				
____ CHEM 440	Advanced Organic Chemistry Laboratory (F)	2	4B	CHEM 344 or CHEM 346
____ Upper level science electives (varies)		10		
____ Upper level electives (any discipline)		6		(to reach the total of 42 required by the university)