Course Requirement Checklist for B.S Chemistry Majors

Chemistry Requirements	Course	Credit	Grade
Freshman Seminar	400	1	_____
General Chemistry	403	4	_____
(403 Fall/404 Spring)	404	4	_____
Quantitative Analysis	517	4	_____
Lab	518	1	_____
Organic Chemistry I	547	3	_____
Lab	549	2	_____
Organic Chemistry II	548	3	_____
Lab	550	2	_____
Introductory Inorganic	574(INQ)	4	_____
Biochemistry	658 or 751		_____
Physical Chemistry I	683	3	_____
Lab	685	2	_____
Physical Chemistry II	684	3	_____
Lab	686	2	_____
Instrumental Analysis	762	3	_____
Lab	763	2	_____
Advanced Inorganic -Fall	774	3	_____
Lab - Spring	775	2	_____
Advanced Organic	755	3	_____
Lab	756	2	_____
Advanced Physical Chemistry	776	4	_____
Senior Seminar	698W	1	_____
Senior Thesis	699W	8	_____
(699W is a continuing course that covers 2 semesters, 4 credits per semester)			
Chemistry Related Elective	_____		_____
Total Credits	_____		

Transfer Students: Students transferring into chemistry who have taken and passed Chem 651 and 652 are exempt from the requirement of taking Chem 547 and 548. Chem 550 is not waived due to the completion of Chem 654.

Acceptable Chemistry Related Electives: Advisor's discretion – MATH 527 or 528; PHYS 505; ESCI 741or 752; ChE; CiE; Generally any 700 or 800 level course that does not overlap significantly with chemistry courses; 400 level not acceptable; 500 with discretion (BCHM 501 not acceptable).

Writing Intensive Courses: Four writing intensive (WI) courses must be successfully completed including CHEM 698 and 699. Eng 401W is also a WI course. One other WI course must be passed, usually from the Discovery list. CHEM 699W is a continuing course and only counts as one WI course, not two.

Other Science Requirements	**Course Credit**		**Grade**	
Calculus I	Math 425*	4		_____
Calculus II	Math 426*	4		_____
Physics I	Phys 407*	4		_____
Physics II	Phys 408*	4		_____

*These courses are offered nearly every semester and often during the summer sessions as well.

Total Credits: _____

University Discovery Requirements One Course in each Category (400-600 level) (*those courses in italics simultaneously satisfy chemistry BS requirements*)

Group	**Course**	**Credit**	**Grade**	**Comments**
Discovery Foundations				
1) Writing Skills (WS)	_____	_____	_____	(ENGL 401W)
2) Quantitative Reasoning (QR)	_____	_____	_____	*(Math 425)*
Big Ideas, Small Classes				
3) Inquiry Course (INQ 444 or INQ Attribute)	_____	_____	_____	*(Chem 574INQ)*
Discovery in the Disciplines				
4) Biological Sciences (BS)*	_____	_____	_____	*(BMCB 658)*
5) Physical Sciences (PS)*	_____	_____	_____	*(Phys 407)*
* Either BS or PS must have a lab.				
6) Fine and Performing Arts (FPA)	_____	_____	_____	
7) Humanities (HUMA)	_____	_____	_____	
8) Historical Perspectives (HP)	_____	_____	_____	
9) World Cultures (WC)	_____	_____	_____	
10) Social Sciences (SS)	_____	_____	_____	
11) Environ., Tech. and Society (ETS)	_____	_____	_____	
Capstone Experience				
12) Capstone	_____	_____	_____	*(Chem 699)*

Other Electives:

Course: _____ Credit: _____ Grade: _____

Course: _____ Credit: _____ Grade: _____

Course: _____ Credit: _____ Grade: _____

Course: _____ Credit: _____ Grade: _____

Total Credits: (exclude overlaps in Groups 2, 3, 4 , 5 and 12) _____

Recommended B.S. Chemistry Curriculum

Freshman Year

Fall Semester I		**Spring Semester II**		
Fresh Sem 400	1cr	Chem 404	4cr	
Chem 403	4cr	Math 426	4cr	
Math 425	4cr	Engl 401W	4cr	
Discovery	4cr	Phys 407	4cr	
Discovery	4cr			
	= 17 credits		= 16 credits	Totals 33 credits

Sophomore Year

Fall Semester III		**Spring Semester IV**		
Chem 547, 549	3cr&2cr	Chem 548, 550	3cr&2cr	
Chem 517, 518	3cr&2cr	Chem 574INQ	4cr	
Phys 408	4cr	Discovery	4cr	
Discovery	4cr	Discovery	4cr	
	= 18 credits		= 17 credits	Totals 35 credits

Junior Year

Fall Semester V		**Spring Semester VI**		
Chem 683, 685	3cr & 2cr	Chem 684, 686	3cr& 2cr	
Chem 755, 756	3cr & 2cr	Chem 762, 763	3cr&2cr	
Chem 774	3cr	Chem 775	2cr	
Discovery	4cr	Elective	4cr	
	= 17 credits		= 16 credits	Totals 33 credits

Senior Year

Fall Semester VII		**Spring Semester VIII**		
Chem 776	4cr	Chem 698W	1cr	
Chem 699W	4cr	Chem 699W	4cr	
Bmcb 658	4cr	Chem Rel Elect	4cr	
Elective	4cr	Elective	4cr	
	= 16 credits		= 13 credits	Total 29 credits

Notes:

- Assumes all electives are 4 credits, unless noted.
- Minimum 128 credits for graduation
- Minimum University GPA is 2.0

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