

Course Requirement Checklist for B.S Chemistry Majors

<u>Chemistry Requirements</u>	<u>Course</u>	<u>Credit</u>	<u>Grade</u>	<u>Alternate</u>	<u>Credit</u>	<u>Grade</u>
Freshman Seminar	400	1	_____			
(Fall & Spring)	400	1	_____			
General Chemistry	403	4	_____			
(403 Fall/404 Spring)	404	4	_____			
Quantitative Analysis	517	3	_____			
Lab	518	2	_____			
Organic Chemistry I	547	3	_____	651	3	_____
Lab	549	2	_____	653 (lab)	2	_____
Organic Chemistry II	548	3	_____	652	3	_____
Lab	550	2	_____	654 lab – Not acceptable		
Introductory Inorganic	574	3	_____			
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	774	3	_____			
Lab	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	_____					

Acceptable Chemistry Related Electives: Advisor's discretion – MATH 527 or 528; PHYS 505; ESCI 741 or 752; BCHM 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 Gen Ed list. CHEM 699W is a continuing course and only counts as one WI course, not two.

<u>Other Science Requirements</u>	<u>Course</u>	<u>Credit</u>	<u>Grade</u>
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 General Education Requirements (*those courses in italics simultaneously satisfy chemistry BS requirements*):

<u>Group</u>	<u>Course</u>	<u>Credit</u>	<u>Grade</u>	<u>Comments</u>
1. Writing Skills	_____	_____	_____	<i>Engl 401W</i>
2. Quantitative Reasoning	_____	_____	_____	<i>Covered by Math 425</i>
3. Science & Technology	3P: _____	_____	_____	<i>Two Group 3P courses from Chem 403, Chem 404, Phys 407, Phys 408, others PLUS one from either Group 3B or 3T (see Gen Ed rules)</i>
	3P: _____	_____	_____	
	3B or 3T: _____	_____	_____	
4. Historical Perspectives	_____	_____	_____	
5. Foreign Culture	_____	_____	_____	
6. Fine Arts	_____	_____	_____	
7. Social Science	_____	_____	_____	
8. Philosophy, Literature & Ideas	_____	_____	_____	
Total Credits: (exclude overlaps in Group 2 & 3)		_____		

Comments and Dates from Consultation with Student

Typical B.S. Chemistry Curriculum

Freshman Year

Fall Semester I

Freshman Seminar 400 (1 credit)
Chem 403
Math 425
GenEd
GenEd

= 17 credits

Spring Semester II

Freshman Seminar 400 (1 credit)
Chem 404
Math 426
Engl 401W
Phys 407

= 17 credits

Totals 34 credits

Sophomore Year

Fall Semester III

Chem 547, 549
Chem 517, 518
Phys 408
GenEd

= 18 credits

Spring Semester IV

Chem 548, 550
Chem 574
GenEd
GenEd

= 16 credits

Totals 34 credits

Junior Year

Fall Semester V

Chem 683, 685
Chem 755, 756
Chem 774
Elective

= 17 credits

Spring Semester VI

Chem 684, 686
Chem 762, 763
Chem 775
Gen Ed

= 16 credits

Totals 33 credits

Senior Year

Fall Semester VII

Chem 776
Chem 699W
Bchm 658 or Bchm 751
BioChem 658 or 751

= 16 credits

Spring Semester VIII

Chem 698W (1 credit)
Chem 699W
Chemistry Related Elective
Elective

= 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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