

Bachelor of Science, Chemistry Major

Industrial Chemistry Concentration

CHEMISTRY (41 hrs)	
1110 General Chemistry I	4
1120 General Chemistry II	4
1500 First-Year Connections	1
2010 Intro Inorganic Chemistry	3
3010 Organic Chemistry I	4
3020 Organic Chemistry II	4
3410 Quantitative Analysis	4
3420 Analytical Applications	3
3500 Elements of Physical Chem.	3
4910 Chemistry Seminar	2
Advanced Chemistry Courses	
4210 Chemistry of Polymers	3
4520 Instrumental Analysis	4
4710 Environmental Chemistry	3

BIOLOGY (8 hrs)	
1113 General Biology I	4
1123 General Biology II	4

MATHEMATICS (7 hrs)	
1530 Introductory Statistics	3
1910 Calculus I	4

PHYSICS (8 hrs)	
2010 Algebra-Based Physics I	4
2020 Algebra-Based Physics II	4

ENGLISH (6 hrs)	
1010 English Composition I	3
1020 English Composition II	3

HUMANITIES (9 hrs)	
Literature	3
	3
	3

HISTORY (6 hrs)	
2010 Early US History	3
2020 Modern US History	3

SOCIAL SCIENCE* (6 hrs)	
	3
	3

COMMUNICATION (3 hrs)	
	3

Technical Requirements (15-16 hrs)	
MET 1100 Intro to MET	2
MET 2000 Occupational Safety	2
MET 2400 Statics & Strengths	3
PC 3250 Professional Comm.	3
COOP 2010, 2020, 2030	3
ACCT 3720, MET 3100, 3740 OR	
COOP 4010, 4020, 4030	2-3
Electives (7-10 hrs)	
TOTAL	120

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FRESHMAN YEAR			
DISC	NUMBER	SUBJECT	HOURS
CHEM	1110,1120	General Chemistry I,II	8
CHEM	1500	First-Year Connections/Advisement	1
BIOL	1113,1123	General Biology I,II	8
MATH	1910	Calculus I	4
ENGL	1010,1020	English Composition I,II	6
MET	1100	Intro. to Manufacturing/Engineering	2
GE/HUM	-----	Humanities	3
		TOTAL	32
SOPHOMORE YEAR			
DISC	NUMBER	SUBJECT	HOURS
CHEM	2010	Introduction to Inorganic Chemistry	3
CHEM	3410,3420	Quant. Analysis, Analytical Appl'ns	7
PHYS	2010,2020	Algebra-Based Physics I,II	8
MET	2000	Occupational Safety	2
MET	2400	Statics & Strengths of Materials	3
MATH	1530	Introductory Statistics	3
GE/COM	COMM or PC	2025 or 2500	3
		TOTAL	29
JUNIOR YEAR			
DISC	NUMBER	SUBJECT	HOURS
CHEM	3010,3020	Organic Chemistry I,II	8
CHEM	3500	Elements of Physical Chemistry	3
CHEM	4520	Instrumental Analysis	4
CHEM	4710	Environmental Chemistry	3
HIST	2010,2020	Early and Modern US History	6
ENGL	-----	Literature 2130, 2235 or 2330	3
PC	3520	Professional Communications	3
		TOTAL	30
COOP 2010-2030		After Junior Year (3 semesters)	3
SENIOR YEAR			
DISC	NUMBER	SUBJECT	HOURS
CHEM	4910	Chemistry Seminar	2
CHEM	4210	Chemistry of Polymers	3
GE/HUM	-----	Humanities	3
DTR	-----	Technical Requirement	2-3
GE/SS	-----	Social Science	6
ELEC	-----	Electives	12
		TOTAL	28