

Bachelor of Science, Chemistry Major Applied Chemistry Concentration (CHMN)

CHEMISTRY (41 hrs)		
1110 General Chemistry I		4
1120 General Chemistry II		4
1500 1st 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
Approved Chemistry Courses*		9

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* (14-16 hrs)		
Electives (10-12 hrs)		
TOTAL		120

*See Options table on page 3.

Bachelor of Science, Chemistry Major Applied Chemistry Concentration (CHMN)

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	1530	Introductory Statistics	3
ENGL	1010,1020	English Composition I,II	6
HUM	-----	Humanities (Gen Ed)	3
		TOTAL	29

SOPHOMORE YEAR			
DISC	NUMBER	SUBJECT	HOURS
CHEM	2010	Introduction to Inorganic Chemistry	3
CHEM	3410,3420	Quant.Analysis, Analytical Appl'ns	7
DTR	-----	Technical Requirement*	3
PHYS	2010,2020	Algebra-Based Physics I,II	8
MATH	1910	Calculus I	4
SS	-----	Social Science (Gen Ed)*	6
		TOTAL	31

JUNIOR YEAR			
DISC	NUMBER	SUBJECT	HOURS
CHEM	3010,3020	Organic Chemistry I,II	8
CHEM	3500	Elements of Physical Chemistry	3
COM	-----	Communication (Gen Ed)	3
HIST	2010,2020	Early and Modern US History	6
HUM	-----	Humanities (Gen Ed)	3
DTR	-----	Technical Requirements*	7
		TOTAL	30

SENIOR YEAR			
DISC	NUMBER	SUBJECT	HOURS
CHEM	4910	Chemistry Seminar	2
CHEM	-----	Advanced CHEM courses*	9
HUM	-----	Humanities (Gen Ed)	3
DTR	-----	Technical Requirements*	4-6
ELEC	-----	Elective	10-12
		TOTAL	30

*See Options table on page 3.

Specific Requirements for Applied Chemistry Options			
Option	Social Science (6 hrs)	Advanced Chemistry (9 hrs)	Directed Technical Requirements (14-17 hrs)
Business Chemistry	ECON 2010 ECON 2020	9 hours approved by advisor	ACCT 3720 BMGT 3510 FIN 3210 MKT 3400 DS 3620 or LAW 3810
Environmental Chemistry	See Gen Ed List	CHEM 4710 CHEM 4720 3 hours approved by advisor	BIOL 3120 12 hours chosen from AGRN 3230, 4220, BIOL 4130, 4840, GEOG 4510, GEOL 4300, 4711
Forensic Chemistry	See Gen Ed List	CHEM 4410 CHEM 4610 CHEM 4650	CJ 2660 CJ 4250 BIOL 3330 BIOL 3810 BIOL 4150
Health Sciences	See Gen Ed List	CHEM 4610 CHEM 4620 3 hours approved by advisor	BIOL 2010, 2020 BIOL 3230 3 hours chosen from BIOL 3810, 4040, 4060, 4150
Industrial Chemistry	See Gen Ed List	CHEM 4210 CHEM 4520 CHEM 4710	COOP 2010, 2020, 2030 MET 1100, 2000, 3730 PC 3250 3 hours chosen from ACCT 3720, COOP 4010, 4020, 4030, ME 3110, MET 3080
Chemistry	See Gen Ed List	9 hours approved by advisor	Minimum 14 hours of complementary courses approved by advisor