## B.S. in Chemistry 2018-2019: Option 1 - CWILT

First Year					
Fall	Credits	Interim	Credits		Credit
CHE 113	4		4	CHE 214	
& CHE 113D				& CHE 215	
*1 General Chemistry I and General Chemistry I Lab				(or elective if CHE208/208D was taken in fall) *1	
		GES 125 Introduction to the Creative Arts		General Chemistry IIGeneral Chemistry II Lab	
OR				MAT 125 Calculus 2	
CHE 208					
& CHE 208D					
*1					
Accelerated General Chemistry and Accelerated					
General Chemistry Lab				CHE 200 Laboratory Safety and Chemical Hygiene	
MAT 124M Calculus 1	4			BIB 101 Introduction to the Bible	
GES 130 Christianity Western Culture	4			GES 140 Introduction to Wellbeing	
GES 160 Inquiry Seminar	3				
· ·	15		4		1
Second Year					
Fall	Credits	Interim	Credits	Spring	Credi
CHE 224	4	Elective		CHE 226	
& CHE 225				& CHE 227	
Organic Chemistry I and Organic Chemistry I Lab				Organic Chemistry II and Organic Chemistry II Lab	
MAT 222 or 223 Differential Equations	3			PHY 296	
I III II III II II II II II II II				& PHY 297	
				General Physics II and General Physics II Lab	
PHY 292	1		Ų	Concrair Hysics if and Ocherair Hysics if Lab	1
& PHY 292D					
General Physics I and General Physics I Lab				THE 201 Christian Theology	
Second Language (S) course *2	1		1	Contemporary Western Life and Thought (L) course	
Second Language (5) course 2	15		3	Contemporary Western Life and Thought (L) course	1
Third Year	13		3		
Fall	Crodite	Interim	Credits	Spring	Credit
ı alı	Oreurs 1	Science, Technology, and Society (K) course		CHE 312	Credi
	'	Science, reciniology, and Society (K) course	3	& CHE 313	
CHE 395 Chemistry Seminar: Research and				Quantitative Analysis and Quantitative Analysis Lab	
Professional Development					
CHE 344	4			CHE 348	
& CHE 345				& CHE 349	
Thermodynamics, Kinetics, and Statistical Mechanics				Quantum Chemistry and Spectroscopy and Quantum	
and Thermodynamics, Kinetics, and Statistical				Chemistry and Spectroscopy Lab	
Mechanics Lab					
Chemistry Elective	4		•	CHE 490 Chemistry Seminar: Research	
Interpreting Biblical Themes (J) course	3			Comparative Systems (G) course	
World Cultures (U) course	3			Leisure and Lifetime Sports (Q) course	
• •	15		3	• • •	1
Carrette Vaca					
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credi
	Credits	Interim Off	Credits 0	Spring CHE 364	Credi
Fall	Credits 4				Credi
Fall CHE 320 & CHE 321	Credits 4			CHE 364 & CHE 365	Credi
Fall CHE 320	Credits 4			CHE 364 & CHE 365 Advanced Inorganic Chemistry and Advanced	Credi
Fall CHE 320 & CHE 321 Instrumental Analysis and Instrumental Analysis Lab	Credits 4			CHE 364 & CHE 365	Credi
Fall CHE 320 & CHE 321 Instrumental Analysis and Instrumental Analysis Lab CHE 388	4			CHE 364 & CHE 365 Advanced Inorganic Chemistry and Advanced	Credi
Fall CHE 320 & CHE 321 Instrumental Analysis and Instrumental Analysis Lab CHE 388 & CHE 389	4			CHE 364 & CHE 365 Advanced Inorganic Chemistry and Advanced Inorganic Chemistry Lab	Credi
Fall CHE 320 & CHE 321 Instrumental Analysis and Instrumental Analysis Lab CHE 388 & CHE 389 Biochemistry I and Biochemistry I Lab	4			CHE 364 & CHE 365 Advanced Inorganic Chemistry and Advanced Inorganic Chemistry Lab  CHE 494 Chemistry Seminar: Research Presentation	Credi
Fall CHE 320 & CHE 321 Instrumental Analysis and Instrumental Analysis Lab CHE 388 & CHE 389 Biochemistry I and Biochemistry I Lab Cross-cultural Experience (Z) course	4 0-3			CHE 364 & CHE 365 Advanced Inorganic Chemistry and Advanced Inorganic Chemistry Lab  CHE 494 Chemistry Seminar: Research Presentation Chemistry Elective	
Fall CHE 320 & CHE 321 Instrumental Analysis and Instrumental Analysis Lab CHE 388 & CHE 389 Biochemistry I and Biochemistry I Lab	4			CHE 364 & CHE 365 Advanced Inorganic Chemistry and Advanced Inorganic Chemistry Lab  CHE 494 Chemistry Seminar: Research Presentation Chemistry Elective Artistic Experience (A) course	Credi
Fall CHE 320 & CHE 321 Instrumental Analysis and Instrumental Analysis Lab CHE 388 & CHE 389 Biochemistry I and Biochemistry I Lab Cross-cultural Experience (Z) course	4 0-3			CHE 364 & CHE 365 Advanced Inorganic Chemistry and Advanced Inorganic Chemistry Lab  CHE 494 Chemistry Seminar: Research Presentation Chemistry Elective	

<sup>1.</sup> CHE 208 Accelerated General Chemistry/CHE 208D Accelerated General Chemistry Lab is a one-semester course that meets the requirements of CHE 113/CHE 113D and CHE 214/CHE 215.

2. Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)

This program assumes that a student will use CHE 113/CHE 113D and MAT 124M to meet the general education Laboratory Science and Mathematics requirements.

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit load falls below 15 credits/semester. (Interim credits may be split between fall and spring

LHE 113 D*1 General Chemistry I and General Chemistry I and General Chemistry I Lab  GES 147 Humanities II: Renaissance and Reformation  GES 147 Humanities III: Renaissance and Reformation  GES 244 Humanities III: European Enlightenment and American Culture to 1877  General Chemistry Lab  GES 244 Humanities III: European Enlightenment and American Culture to 1877  General Chemistry Lab  ART 124M Calculus 1  45 1340 Introduction to Weltbeing  55 145 Humanities III: General Chemistry I European Enlightenment and American Culture to 1877  General Chemistry I and Congress 1  GES 244 Humanities III: European Enlightenment and American Culture to 1877  General Language (S) course '2  Fig. 146 Humanities III: General Chemistry I European Enlightenment and American Culture to 1877  General Language (S) course '2  Fig. 147 Humanities III: General Chemistry I European Enlightenment and American Culture to 1877  General Chemistry I European Enlightenment and American Culture to 1877  General Chemistry I European Enlightenment and American Culture to 1877  General Chemistry I European Enlightenment and American Culture to 1877  General Chemistry I European Enlightenment and American Culture to 1877  General Chemistry I European Enlightenment and American Culture to 1877  General Chemistry I European Enlightenment and American Culture to 1877  General Chemistry I European Enlightenment and American Culture to 1878  GES 246 Humanities III: General Chemistry I European Enlightenment and American Culture to 1878  GES 246 Humanities III: General Chemistry I European Enlightenment and American Culture to 1878  GES 246 Humanities III: General Chemistry Marchael Chemistry Marchael Chemistry I European Enlightenment and General Physics I European Chemistry I I European Chemistry I European Chemistry I European Chemistry and Spectroscopy and Quantum Chemistry and Spectroscopy and Quantum Chemistry and Spectroscopy I European Chemistry Senior Chemistry Senior Chemistry Lab  GES 246 Humanities III: Chemistry Senior Chemistry Lab  GES	First Year					
CHE 13D *1 General Chemistry I and General hemistry in the Chemistry I Lab    GES 147 Humanities ii: Renaissance and Reformation    GES 147 Humanities ii: Renaissance and Reformation    GES 148 Humanities ii: Renaissance and Reformation    GES 244 Humanities iii: European Enlighteement and American Culture to 1877    Second Language (S) course *2    Second Language (S) course *3    Second Language (S) course *4    Second Lang	fall	Credits	Interim			Credi
CES 147 Humanities II: Renaissance and Reformation  GES 147 Humanities II: Renaissance and Reformation  MAT 125 Calculus 2  GES 244 Humanities III: Lenaissance and Reformation  MAT 125 Calculus 2  GES 244 Humanities III: Lenaissance and Reformation  MAT 125 Calculus 2  GES 244 Humanities III: Lunpean Enlightenment and American Culture to 1877  Second Language (5) source *2  Second Year  A Humanities II: Greco-Roman through Middle description of the second Language (5) source *2  Second Year  Credits Set 40 Introduction to Wellbeing  SES 145 Humanities II: Greco-Roman through Middle description of the second Year  Credits Second Language (5) source *2  Second Year  Credits Second Language (5) source *2  Second Year  A World Cultures (U) course  BB 101 Introduction to the Bible CH2220 (22) Gillerfertal Equations  SES 245 Humanities IV: Modem and Contemporary  A CHE 226  CHE 226 Calculations  SES 246 Humanities IV: Modem and Contemporary  A Second Language (S) course 2  Second Language (S) course 2  CH2 20 Laboratory Safety and Chemical Hygiene CH220  CH2 20 Laboratory Safety and Contemporary  4 Second Language (S) course 2  CH2 20 Laboratory Safety And Chemical Hygiene CH220  CH2 2	CHE 113	4		4	CHE 214	
GES 147 Humanities II: Renaissance and Reformation  MAT 126 Caclulus 2  MAT 126 Caclulus 2  MAT 126 Caclulus 2  GES 244 Humanities III: European Enlightenment and Annotican Culture to 1877  Second Language (5) course 2  15 44 Humanities III: European Enlightenment and Annotican Culture to 1877  Second Language (5) course 2  15 145 Humanities II: Grecitis III: European Enlightenment and Annotican Culture to 1877  Second Language (5) course 2  15 145 Humanities II: Grecitis III: European Enlightenment and Annotican Culture to 1877  Second Language (5) course 2  15 145 Humanities II: Grecitis Interim  Creditis Interim  Creditis Interim  Creditis Interim  Creditis Interim  CHE 200 Laboratory Safety and Chemistry II Lab  Language (5) course 2  BIS 101 Introduction to the BISIs  CHE 200 Laboratory Safety and Chemical Hygiene III-Lab  Language (5) course 2  BIS 101 Introduction to the BISIs  CHE 200 Laboratory Safety and Chemical Hygiene III-Lab  Language (6) course 2  BIS 101 Introduction to the BISIs  CHE 200 Laboratory Safety and Chemical Hygiene III-Lab  Language (6) course 2  BIS 101 Introduction to the BISIs  CHE 200 Laboratory Safety and Chemical Hygiene III-Lab  Language (6) course 2  BIS 101 Introduction to the BISIs  CHE 200 Laboratory Safety and Chemical Hygiene III-Lab  Language (6) course 2  BIS 101 Introduction to the BISIs  CHE 200 Laboratory Safety and Chemical Hygiene III-Lab  Language (6) course 2  CHE 200 Laboratory Safety and Chemical Hygiene III-Lab  Language (6) course 2  BIS 101 Introduction to the BISIs  CHE 200 Laboratory Safety and Chemical Hygiene III-Lab  Language (6) course 2  CHE 200 Laboratory Safety and Chemical Hygiene III-Lab  Language (6) course 2  CHE 200 Laboratory Safety and Chemical Hygiene III-Lab  Language (6) course 2  CHE 200 Laboratory Safety III-Lab  Laboratory	CHE 113D *1 General Chemistry I and General				& CHE 215	
MAT 125 Calculus 2  LHE 208 D1  CHE 208D 1  GES 244 Humanities III: European Enlightenment and American Culture to 1877  Econd Language (S) course '2  Est 145 Humanities II: European Enlightenment and American Culture to 1877  Econd Language (S) course '2  Est 145 Humanities II: Geoch Culture (S) course '2  Est 145 Humanities II: Geoch Language (S) course '2  Est 145 Humanities II: Geoch Language (S) course '2  Econd Langu	hemistry I Lab				(or elective if CHE208/208D was taken in fall) *1	
MAT 125 Calculus 2  CHE 208 Che Color of Chemistry and Accelerated emeral Chemistry Lab  Art 124M Calculus 4  ES 140 Introduction to Welbeing  ES 145 Humanities I: Greco-Roman through Middle  SE 245 Humanities II: Greco-Roman through Middle  SE 246 Humanities II: Greco-Roman through Middle  SE 247 Humanities II: Greco-Roman through Middle  SE 246 Humanities			GES 147 Humanities II: Renaissance and Reformation		General Chemistry IIGeneral Chemistry II Lab	
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American Culture to 1977   Second Language (S) course '2						
MAT 124M Calculus 1 ES 400 Introduction to Wellbeing ES 400 Introduction to the Bible Credits Spring C						
ES 145 Humanities I: Greco-Roman through Middle ges  15  4  8cond Year  15  4  World Cultures (U) course  16  18  Credits Interim  Credits Spring  Credits Spr	•					
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econd Year  all Credits Interim Credits Spring Cred	ges					
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ES 246 Humanities IV: Modern and Contemporary / election Culture  15						
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Second Language (S) course2    A	ES 246 Humanities IV: Modern and Contemporary				& PHY 297	
Second Language (S) course2   Second Language (S) course3   Second Language (S) course3   Second Language (S) course3   Second Language (S) course3   Second Language (S) course2   Second Language (S) course3   Second Language (S) course2   Second Language (S) course3   Second Language (S) course4   Second Language (S) course5   Seco	Vestern Culture				General Physics II and General Physics II Lab	
hird Year all Credits   Spring   Credits   CHE 344   Science, Technology, and Society (K) course   Credits   CHE 345   CHE 312   & CHE 312   & CHE 313   Quantitative Analysis and Quantitative Analysis Lab   CHE 348   CHE 318   CHE 349   Quantum Chemistry and Spectroscopy and Quantum Chemistry and Lifetime Sports (Q) course    16			1			
hird Year  all  Credits   Spring		15		3	occina Languago (o) coarcoz	
all Credits   Interim Credits	hird Year					
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CHE 345 hermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics and						Orea
hermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab    HE 395 Chemistry Seminar: Research and rofessional Development		4	Science, recrinology, and Society (N) course	3		
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CHE 395 Chemistry Seminar: Research and professional Development and Development an						
### Specification of the proteing Biblical Themes (J) course	Mechanics Lab					_
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Leisure and Lifetime Sports (Q) course  Credits  Leisure and Lifetime Sports (Q) course  Credits  Spring  Credits  CHE 364  & CHE 365  Advanced Inorganic Chemistry and Advanced Inorganic Chemistry Lab  CHE 389  iochemistry I and Biochemistry I Lab  hemistry Elective  Chemistry Elective  Chemistry Elective  Artistic Experience (A) course  Contemporary Christian Issues (P) course			1			
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	1055 Guitural Experience (Z) Course	0-3	1			(

<sup>1.</sup> CHE 208/CHE 208D is a one-semester course that meets the requirements of CHE 113/CHE 113D and CHE 214/CHE 215. Students taking CHE 208/CHE 208D may choose an elective in the

<sup>2.</sup> Students must complete through the second semester of a first year language course or equivalent (Check the catalog for details of this option.)

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