Courses offered in the Department of Chemistry

Catalogue Year: _____

Core Courses					Elective Courses / Specializations (if any)				
Core Courses	**Cr.H**	**Remarks/ Prerequisite (if any)**	**Offered in Semester** Fall /Spring /Summer	**Remarks/ cross-listed etc.**	**Elective Courses**	**Cr. H**	**Pre.Req**	**Offered in Semester**	**Remarks/ cross-listed etc.**
CHEM 250	4	Intermediate or A-Level Chemistry	Fall & Spring		**Inorganic-Analytical Chemistry**				
CHEM 261	4	Intermediate or A-Level Chemistry	Fall & Spring		CHEM 413	4	CHEM 311 or 370	Spring	
CHEM 270	4	Intermediate or A-Level Chemistry	Fall & Spring		CHEM 450	4	CHEM 250 or 350	Spring	
CHEM 311	4	Sopho &	Fall & Spring		CHEM 453	3	CHEM 250 or 350	Spring	
CHEM 320	4	above	Fall & Spring		CHEM 454	3	CHEM 250 or 350	Fall	
CHEM 330	4	Sopho & above	Fall & Spring		CHEM 455	4	CHEM 250 or 350	Fall	
CHEM 350	4	CHEM 160 or 261 or Equivalent	Fall & Spring		**Organic-Bio Chemistry**				
CHEM 361	4	CHEM 150 or 250	Fall & Spring		CHEM 260	4	Intermediate or A-Level Chemistry	Spring	
CHEM 370	4	CHEM 260 or 261	Fall & Spring		CHEM 331	3	CHEM 330	Spring	
					CHEM 462	4	CHEM 260 or 261 or 361	Spring	
					CHEM 464	4	CHEM 260 or 261 or 361	Fall	
					CHEM 465	4	CHEM 330 or 361	Spring	
					Physical Chemistry				
					CHEM 271	3	CHEM 150 or 170 or 270	Fall	
					CHEM 470	3	CHEM 261 or 270	Spring	
					CHEM 471	3	CHEM 271 or 370	Fall	
					CHEM 473	4	CHEM 270 or 370	Fall	
					Other Electives				
					CHEM 262	3	CHEM150, 160, 170	Spring	
					CHEM 340	3	Sopho & above	Fall/ Spri	
					CHEM 342	3	Sopho & above	Spring	
					CHEM 372	3	CHEM 250, 261, 270	Spring	
					CHEM 421	4	CHEM 260 or 261 or 330	Spring	
					Total Credits	**66**			

Note:

Requirements of Major:

48 credits hours including 9 core courses and at least 12 credits hours from elective courses.

CGPA, or any other requirement…

Requirements of Minor:

24 credits hours of 200 level courses or above by selecting at least one course from each of the following areas of elective courses.
Inorganic-Analytical Chemistry, Organic-Bio Chemistry and Physical chemistry

Equivalences (if any) Or Transfer Credits:

Cross-listed Courses:

Chem-340, Chem-342, Chem

Courses for Gen.Education: (any recommendation)

Courses for non-science students: CHEM 100

Any other instructions…

- Specializations & Career opportunities: _____

Roadmap for Chemistry Majors

Catalog year: 2020

Course	Credit Hr	Remarks/Status	Course	Credit Hr	Remarks/Status
Freshmen year					
Fall 2020 (1st Semester)			Spring 2021. (2nd Semester)		
*UNIV100	3		CHEM 170, 173, 261	4,3,4	Students who want to take Chem-150, 160, and 170 are advised to take during the summer semester.
**GEC			GEC		
GEC			GEC		
GEC			GEC		
GEC			CHEM 150, 250	4,4	
Sophomore year					
Fall 2021 (3rd Semester)			Spring 2022 (4th Semester)		
CHEM 160, 270, 271	4,4,3		**CHEM 261**	4	300 level courses may also be taken
GEC			GEC		
GEC			GEC		
CHEM 250	4		CHEM 260, 262	4	
GEC			**CHEM 270**	4	
Junior year					
Fall 2022 (5th Semester)			Spring 2023(6th Semester)		
CHEM 370	4		**CHEM 350**	4	400 Level courses may also be taken
CHEM 311	4		**CHEM 330**	4	
CHEM 320	4		**CHEM 361**	4	
**EC	4		**EC	4	
Senior year					
Fall 2023 (7th Semester)			Spring 2024(8th Semester)		
CHEM 413	4	Students are advised to take as many elective courses of their area of interest as possible	CHEM 421	4	Students are advised to take as many elective courses of their area of interest as possible
CHEM 454	3		CHEM 450	4	
CHEM 455	4		CHEM 453	3	
CHEM 464	4		CHEM 462	4	
CHEM 471	3		CHEM 465	4	
CHEM 473	4		CHEM 470	3	
Total Credits:	130				

Important Notes/Guidelines:

Students are strongly advised to complete GECs by the end of sophomore year and core courses (Chem-250, Chem-261, Chem-270, Chem-311, Chem-320, Chem-330, Chem-350, Chem-361, Chem-370) by the end of junior year.

In the senior year they should take as many elective courses as possible.

*GEC: General Education Course

** CC: Core Couses are underlined and bold above

*** EC: Elective Course, 300 &400 level courses should be taken such as Chem-331, Chem-340, Chem-342, Chem-372