

## Semester Map for Chemistry (BSc. Degree)

## **Program Contact Person: TBA**

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	
CHEM 1500-Chem. Bonding & Organic Chem. Lower Level Required Course (4,0,3)	CHEM 1510- Fundamentals of Chem.Lower Level Required Course (4,0,3)	CHEM 2100-Intro Analytical Chemistry Lower Level Required Course (3,0,3) ••	CHEM 2250-Fund. Physical Chemistry Lower Level Required Course (3,0,3) • •	CHEM 3060-Physical Chemistry 1 Upper Level Required Course (3,0,0) ① ⑤	CHEM 3070- Physical Chemistry 2 Upper Level Required Course (3,0,0) ① ⑤ ③	CHEM 3100-Instru. Analysis Upper Level Required Course (3,0,0)  1 3	CHEM 3140-Applied Analytical Chemistry Upper Level Required Course (3,0,0) • • •	
BIOL 1110-Principles of Biology Outside Discipline (3,0,3)	CHEM 2120-Organic Chemistry Lower Level Required Course (3,0,3) • •	CHEM 2160- Structure, Bonding, and Spectroscopy Lower Level Required Course (3,0,0)	CHEM 2220-Organic Chemistry Lower Level Required Course (3,0,3) • •	CHEM 3220-Advan Organic Chemistry Upper Level Required Course (3,0,0) <b>●  ⑤</b>	CHEM 3230-Organic Spectroscopy Upper Level Required Course (3,0,0)	CHEM 3310- Inorganic Chemistry 1 Upper Level Required Course (3,0,0) • •	CHEM 3320- Inorganic Chemistry 2 Upper Level Required Course (0,0) <b>① ⑤</b>	
English 1100- Introduction to University Writing Outside Discipline (4,0,0)	CMNS 2290- Professional and Technical Writing Outside Discipline (3,0,0)	Computing (eg COMP 1000-Intro. to Information Technology) Outside Discipline (3,0,1)	MATH 2110- Calculus 3 Outside Discipline (3,1,0)	CHEM 3730-Intro to Biochemistry Upper Level Required Course (3,0,0)	CHEM 3080-Physical Chemistry Lab Upper Level Lab (0,0,4)	CHEM 3120- Instrumental Analysis Lab Upper Level Lab (0,0,4) • •	CHEM 3240-Organic Chemistry Lab Upper Level Lab (0,0, 4) •• ••	
MATH 1130-Enriched Calculus 1 Outside Discipline (3,1,0)	Math 1230- Enriched Calculus 2 Outside Discipline (3,1,0)	PHYS 1200- Fundamentals of Physics 2 Outside Discipline (3,0,3)	MATH 2120-Linear Algebra Outside Discipline (3,1,0)	CHEM 3330- Inorganic Chemistry Lab Upper Level Lab (0,0,4) 12 4	CHEM 4400- Advanced Analytical Chemistry Lab Upper Level Lab (0,1,3) • ②	CHEM 4070-Topics: Phys/Envir. Chem [Alt. CHEM 4900, 4220, 4320, 4600] Upper Level Required Course (3,0,0)	CHEM 4410- Advanced Inorganic Chem Lab [Alt. CHEM 4420, 4430, 4440] Upper Level Lab (0,1,3) ① ② ④	
PHYS 1100- Fundamentals of Physics 1 Outside Discipline (3,0,3)	Course Title-TBD Lower Level elective course must be outside Science and English (3,0,0)	Course Title-TBD Lower Level elective course must be outside Science and English (3,0,0)	Course Title-TBD Lower Level elective course must be outside Science and English (3,0,0)	CHEM 3010-Aqueous Envir Chem [Alt. CHEM 3020, 3030, 4480] Upper Level Required (3,0,0) ① ⑤ ③				
		Emphas	sis on TRU Univers	ity-wide Learning	Outcomes			
Enhancing Depth and Breadth of Knowledge		ncing Creative Enhancing Cri Expression Thinking, Analysis, Problem- solving & Research	Communication	Teamwork &	Enhancing Social Responsibility & Ethical Behaviour Sustaina Entrepre	· ·	Enhancing Lifelong Learning	
Lower Level from	n Within Discipline = -	[Electiv	ve = <b>— — —</b> ]	Course from Outsid	de Discipline =	[Elective = -	]	
Upper Level fron	n Within Discipline = 🕳	[Electiv	ve = <b>— — —</b> ]	Course Based on Directed Study =				
Laboratory Cours	se =	[Electiv	ve = <b>— — —</b> ]	Course Based on E	ourse Based on Experiential Learning =			