

B.S. IN CHEMISTRY
SCHOOL OF SCIENCES
Beginning Fall 2017

YEAR	FALL SEMESTER	SPRING SEMESTER	VERITAS REQUIREMENTS
FRESHMAN	1) CHM 1110 General Chemistry I 4 cr. 2) ¹ MTH 2221 Calculus I 4 cr. 3) DGN 1101 The Responsible Self 4 cr. 4) ² ENG 1110 First Year Composition 4 cr.	1) CHM 1120 General Chemistry II 4 cr. 2) ¹ MTH 2222 Calculus II 4 cr. 3) DGN 1102 And Dignity for All 4 cr. 4) ² CTA 1101 Interpersonal Communication 2 cr. 5) Elective 2 cr.	Foundations: 18 credits (plus language requirement) Foundations courses need not all be completed in a student's first year. 1) DGN 1101 or HON 1111 (4 cr.) 2) DGN 1102 or HON 1112 (4 cr.) 3) ENG 1110 First Year Composition (4 cr.) 4) CTA 1101 Interpersonal Communication (2 cr.) 5) World Language+ 6) Math (4 cr.) (Met by Calculus) +The language requirement can be met by having completed three years of one language in high school, completing the 1112 in a language sequence, demonstrating equivalent proficiency at the same course levels through a placement exam, or being bilingual. Conceptions & Integrations: 32 credits Students must complete 4 credits in each of the 7 disciplinary pathways plus 4 more credits in any pathway(s). A minimum of 16 credits must be from Conceptions courses; 8 credits must be from Integrations courses.
SOPHOMORE	1) CHM 2200 Organic Chemistry I 4 cr. 2) PSC 2011 4 cr. 3) Elective / Veritas Course 4 cr. 4) Elective / Veritas Course 4 cr.	1) CHM 2210 Organic Chemistry II 4 cr. 2) PSC 2012 4 cr. 3) ³ MTH 3322 Linear Algebra 4 cr. or 3) Elective / Veritas Course 4 cr. 4) Elective / Veritas Course 4 cr.	
Application to the major is made during the SPRING semester of the SOPHOMORE year.			
JUNIOR	1) ³ CHM 3220 Intermediate Organic Chemistry 4 cr. 2) ⁴ CHM 3460 Physical Chemistry I 4 cr. or 1) ³ CHM 4020 Inorganic Chemistry 4 cr. 2) ⁶ CHM 4060 Undergraduate Research 4 cr. 3) ⁵ CHM 3000 Analytical Chemistry 4 cr. 4) Elective / Veritas Course 4 cr.	1) CHM 3240 Biochemistry I 4 cr. 2) ³ CHM 3470 Physical Chemistry II 4 cr. or 1) CHM 3240 Biochemistry I 4 cr. 2) ³ CHM 4120 Instrumental Analysis 4 cr. 3) ³ MTH 3322 Linear Algebra 4 cr. or 3) Elective / Veritas Course 4 cr. 4) Elective / Veritas Course 4 cr.	1) Social Sciences 2) History 3) Literature 4) Fine Arts 5) Religious Studies (Must Be Conceptions Level) 6) Philosophy 7) Science (Met By General Chemistry – Conceptions Level) 8) Open
SENIOR	1) ³ CHM 3220 Intermediate Organic Chemistry 4 cr. 2) ⁴ CHM 3460 Physical Chemistry I 4 cr. or 1) ³ CHM 4020 Inorganic Chemistry 4 cr. 2) ⁶ CHM 4060 Undergraduate Research 4 cr. 3) Elective / Veritas Course 4 cr. 4) Elective / Veritas Course 4 cr.	1) Chemistry UD Elective 4 cr. (any semester Jr. or Sr. year) 2) ³ CHM 3470 Physical Chemistry II 4 cr. or 2) ³ CHM 4120 Instrumental Analysis 4 cr. 3) CHM 4777 Chemistry Assessment Exam 0 cr. 4) Elective / Veritas Course 4 cr. 5) Elective / Veritas Course 4 cr.	To graduate from The College of St. Scholastica, students must complete a total of 128 credits, of which 42 need to be upper division credits and the last 32 credits must be earned through St. Scholastica. Upper division credits are those numbered 3000 or greater and cannot including graduate level credits.

¹If the student is not prepared to take MTH 2221 in the fall of the first year, the prerequisite MTH 1122 (Elementary Functions II) should be taken in the first year instead. MTH 2221/2222 (Calculus I and II) can then be taken in the fall and spring of the 2nd year.

²ENG 1110 and CTA 1101 can be taken in either semester.

⁴CHM 3460 is only offered during fall semesters.

⁵CHM 3000 is only offered during fall semesters and requires instructor permission prior to registration.

⁶CHM 4060 may be completed during any semester in the junior/senior year. This research requirement may also be met by participation in a departmentally approved summer research experience followed by enrollment the subsequent fall semester in CHM 4999 (Research Paper and Presentation) for 1 credit in order to have the undergraduate research experience appear on their transcript

³Courses only offered once every four semesters (fall or spring, every other year):

CHM 3220 is offered in fall of odd number years; e.g. fall 2017, 2019, etc.

CHM 3470 is offered in spring of even number years; e.g. spring 2018, 2020, etc.

CHM 4020 is offered in fall of even number years; e.g. fall 2016, 2018, etc.

CHM 4120 is offered in spring of odd number years; e.g. spring 2017, 2019, etc.

MTH 3322 is offered in spring of odd number years; e.g. spring 2017, 2019, etc.