

2019-20 Checklist for Bachelor of Science in Chemistry, Pre-Pharmacy Concentration

MAJOR COURSES	GENERAL EDUCATION CORE (42 hours)
	College Success Skills (2 hours)
Required Core Courses (45 hours)	OREN 105
CHEM 102 General Chemistry II <u>and</u>	
CHEM 102L General Chemistry II Lab	Communication (6 hours Composition & 3 hours COMM/SPCH required)
CHEM 203 Organic Chemistry I <u>and</u>	ENGL 110 or validation by ACT/SAT
CHEM 203L Organic Chemistry I Lab	ENGL 111 or ENGH 111
CHEM 204 Organic Chemistry II <u>and</u>	COMM 210, 212, 220; SPCH 101
CHEM 204L Organic Chemistry II Lab	
CHEM 301 Biochemistry (lab not required)	Mathematics (3 hours)
CHEM 321 Analytical Chemistry <u>and</u>	MATH 190 (Required for the major.)
CHEM 321L Analytical Chemistry Lab	
CHEM 322 Instrumental Analysis <u>and</u>	Arts and Humanities (6 hours -- 3 hours must be in literature)
CHEM 322L Instrumental Analysis Lab	Literature : ENGL 201, 204, 205, 217, 219, 223, 224, 225, 227, 228, 231, 250
CHEM/BIO/ EVSC 354 Service-Lrng in Natrl Sciences	
CHEM 411 Physical Chemistry I <u>and</u>	Fine Arts and Humanities : ARTS 110, 204, 208; ENGL 120, HUMA 222, MUSC 101, RELG 101, 102, 201, 230; THEA 104
CHEM 411L Physical Chemistry I Lab	
CHEM 495 Senior Seminar in Chemisty	
MATH 290 Calculus II	Natural Science (4 hours -- lab required)
PHYS 201 General Physics I <u>and</u>	CHEM 101 and CHEM 101L (Required for this major.)
PHYS 201L General Physics I Lab	
PHYS 202 General Physics II <u>and</u>	Behavioral Wellness & Social Sciences (6 hours; may use only 3 credits from the wellness area)
PHYS 202L General Physics II Lab	Social Science : *BUSN 201, 202, 208; CRJU 105, GEOG 200, POLS 210, 220; PSYC 101, 206, 207; SOCI 101, 105
	Wellness : PHED 201, PSYC 102
Pre-Pharmacy Concentration (18 hours)	*BUSN 201 required for this major.
BIOL 110 General Biology I <u>and</u>	
BIOL 110L General Biology I Lab	
BIOL 120 General Biology II <u>and</u>	History (6 hours)
BIOL 120L General Biology II Lab	HIST 101, 102, 201, 202; HIST/POLS 280
BIOL 202 Microbiology <u>and</u>	
BIOL 202L Microbiology Lab	
BIOL/CHEM/ EVSC 480 Global Environment/Hlth Issues	Religious Studies (3 hours) - If a RELG course was taken for the Arts & Humanities requirement (above), choose another here.
MATH 140 Statistics	RELG 101, 102, 201, 230
Required Courses from the General Education Core	
CHEM 101 General Chemistry I <u>and</u>	Civic Studies (3 hours)
CHEM 101L General Chemistry I Lab	CIVS 223, CIVS 251; POLS 110, 230
BUSN 201 Principles of Economics	
MATH 190 Calculus I	
	Arts and Lecture Series (no credit hours)
	Attended ____ of ____ required Arts & Lecture events
Chemistry Minor	
Required courses (19-20 hours):	
CHEM 101/CHEM 101L General Chemistry I & Lab	
CHEM 102/CHEM 102L General Chemistry II & Lab	
CHEM 203/CHEM 203L Organic Chemistry I & Lab	
CHEM 204/CHEM 204L Organic Chemistry II & Lab	
Select one of the following:	
CHEM 321/CHEM 321L Analytical Chemistry & Lab	
CHEM 411/CHEM 411L Physical Chemistry I & Lab	
CHEM 421 Inorganic Chemistry	
TUSCULUM UNIVERSITY RESERVES THE RIGHT TO REVISE ACADEMIC PROGRAMS AS DEEMED NECESSARY	

Major Courses: 63.00 hrs

General Education core: 42.00 hrs

Elective Hours: 15.00 hrs

Total: 120.00 hours required for graduation

Revised: 7/2019