

Concord University
Bachelor of Science-Chemistry
Registrar's Office Official Document

Name: _____

120 hours minimum for graduation with a 2.00 average overall
 56 hours from a four-year institution

2019-2020 Catalog

Course	Title	CR	GR	QP
Written and Oral Communications (9 credit hours) Select one course from BGEN 205 or COMM 101				
ENGL 101	Composition & Rhetoric I	3		
ENGL 102	Composition & Rhetoric II	3		
		3		
Literature and Humanities (6 credit hours) Select one (1) course from Literature and one (1) course from History and Philosophy. *May be repeated for 3 credit hours.				
	ENGL 203, 204, *224 or *225	3		
	HIST 101, 102, 203, 204, PHIL 101, 308, 316, or 361	3		
Fine Arts– (3 credit hours) Select one (1) course from the following:				
	ART 101, 103, 105, 106, 204, 205, 216, 303, 304, 308, MUS 101, *451, *453A, or THEA 102	3		
Social and Behavioral Sciences (9 credit hours) Select one (1) course from three different categories.				
	Category 1 - Business and Professional Studies BGEN 105, ECON 203, ECON 204, FIN 200, RTM 100 or SOWK 161	3		
	Category 2 - Geography GEOG 101, 255 or 321	3		
	Category 3 - Political Science POSC 101, 104, or 202	3		
	Category 4 - Psychology PSY 101 or 200			
	Category 5 – Sociology SOC 101, 201, or 301			
Natural Sciences (7-8 credit hours) Select one (1) course from two different categories.				
CHEM 101	Category 1-Biological Science BIOL 101, 102, 121, or 122	4	See Major	
	Category 2-Earth & Space Science GEOL 101, GEOL 150, GEOG 200, PHSC 104, or PHYS 105	3-4		
	Category 3-Physical Science CHEM 100, CHEM 101/111, PHSC 103, PHYS 101, or PHYS 201			
Mathematics (3 credit hours) Select one (1) Mathematics course numbered 100 or higher.				
MATH 103		3	See Major	
Physical Wellness (2 credit hours) Select one or more courses listed below for a total of at least two hours.				
	H ED 120, 304, P ED 101M, 117, 118, or RTM 220	2-3		
Modern/Classical Language – (Optional 6 credit hours) Select two courses within the same Modern/Classical Language for substitution purposes.				
	May not substitute Modern Language for ENGL 101, ENGL 102, the 3 hour Mathematics requirement or the 4-hour lab science requirement.			

Chemistry Core Curriculum (2.00 GPA required)				
CHEM 101	General Chemistry I	3		
CHEM 111	General Chemistry Lab I	1		
CHEM 102	General Chemistry II	3		
CHEM 112	General Chemistry Lab II	1		
CHEM 210	Chemical Laboratory Safety	1		
CHEM 219 or PHYS 219	Laboratory Research Methods	1		
CHEM 331	Organic Chemistry I	4		
CHEM 335	Introduction to Inorganic and Physical Chemistry	4		
CHEM 341	Biochemistry I	3		
CHEM 347	Biochemistry Lab	1		
CHEM 351	Analytical Chemistry	3		
CHEM 357	Analytical Chemistry Lab	2		
PHYS 101 or PHYS 201	Introductory Physics or University Physics w/Calculus 1	4		
PHYS 102 or PHYS 202	Intermediate Physics or University Physics w/Calculus 2	4		
MATH 103	College Algebra	3		
MATH 104	College Trigonometry	3		
MATH 253	Calculus w/Analytic Geometry I	4		
	Four (4) or more credit hours of MATH 105 and/or CS 151 or higher	4		

Students must select ONE of the concentrations on the following page

RESIDENCE CREDIT:

36 hours at Concord
 16 of last 32 hours at Concord
 Note: In some degree programs, this is prior to entering professional training.
 9 hours in Major, Teaching Fields

Concord University
Bachelor of Science-Chemistry
Registrar's Office Official Document

BIOCHEMISTRY (PRE-MEDICINE)				
	12-16 credit hours from the following: BIOL 302/ CHEM 302, BIOL 329, BIOL 401, BIOL 419, CHEM 470, CHEM 471, or any 300-400 level electives in CHEM (no more than 8 credits) or PHYS (no more than 6 credits) One 4 hour course may be waived for students completing PHYS 201 and PHYS 202			

PROFESSIONAL CHEMISTRY				
	12-16 credit hours from the following: BIOL 302/ CHEM 302, CHEM 470, CHEM 471, CHEM 300 level or higher, or PHYS 300 level or higher One 4 hour course may be waived for students completing PHYS 201 and PHYS 202			

GEOCHEMISTRY				
	12-16 credit hours from the following: GEOL 205, GEOL 369, GEOL 375, GEOL/CHEM 4701-4704, or any electives in CHEM 300 level or higher (no more than 4 credits) or GEOL 380 or higher (no more than 6 credits) One 4 hour course may be waived for students completing PHYS 201 and PHYS 202			

3 + 1 HEALTH SCIENCES (PRE-PHARMACY)				
BIOL 329	Microbiology	4		
CHEM 332	Organic Chemistry II	4		
CHEM 460 or MDTH 460	Pharmacy Practicum or Medical Technology Practicum (30 hours from an approved School of Pharmacy or school of Clinical Laboratory Science)	15 15		

*CHEM 335, Introduction to Inorganic and Physical Chemistry, is not required for 3+1 Health Sciences. However, students who do not obtain admission to an approved school of pharmacy or medical technology will have to take this course and pursue a different elective concentration during their senior year.

MATH 103 and/or MATH 104 will be waived for those students establishing "equivalent proficiency" as defined by the Department of Mathematics (ACT Math Score 25 or 28).