

Bachelor of Science Degree in Chemistry, College of Science Comprehensive Chemistry Specialization

<i>University Core Curriculum Requirements</i> ¹	41
<i>College of Science Academic Requirements</i>	6
Biological Sciences – six hours (not UCC courses) ^{1,2}	
Mathematics – completed with the Chemistry major	
Physical Sciences – completed with the Chemistry major	
Supportive Skills – a minimum of six hours from two subject areas:	
Computer Science 201 or 202; English 290, 291 or 391; Mathematics 282 or 483	
<i>Requirements for Major in Chemistry</i> ¹	63
Introductory: Chemistry 200 ¹ , 201, 210, 211	(3) + 7
Foundation: Chemistry 330, 340, 341, 350 ² , 351, 360, 361, 411, 410	24
Mathematics 150 ^{1,3} , 250 and either 221, 251, 305 or 483 ⁴	(3) + 8
Physics 205a,b; 255a,b	8
Chemistry 434, 442, 443, 460 and 463	13
Electives: Chemistry 431, 439, 444, 451 ² , 452, 456, 468 or 479	3
<i>Electives</i>	10
<i>Total</i>	120

¹A total of nine hours of biological science, mathematics, and physical science course work are accounted for in the 41-hour University Core Curriculum requirement.

²A total of three hours of biological sciences are completed with biological chemistry or biochemistry. Chemistry 451a may substitute for Chemistry 350, if a student continues with Chemistry 451b.

³Prerequisite is Mathematics 111 or 108 and 109. The elective hours are decreased by three to six hours for students who place into a course lower than calculus.

⁴Three hours of supportive skills are accounted for in the College of Science requirement and elective hours may increase by two hours if students choose Mathematics 483.

Comprehensive Chemistry Specialization Curricular Guide

Chemistry B.S. with ACS Certificate and Mathematics Minor

FIRST YEAR	FALL	SPRING
CHEM 200/201, 210/211 General Chemistry	5	5
BIOL 200a, 200b General Biology	4	4
MATH 109, 150 Trig & Calculus I	3	4
ENGL 101 Composition	-	3
UCOL 101s Scientific Inquiry	3	-
CI 199 Library Info	1	-
<i>Total</i>	16	16

SECOND YEAR	FALL	SPRING
CHEM 330 Quantitative Analysis	5	-
CHEM 350/351 Biochemistry	-	5
CHEM 340/341, 442/443 Organic Chem.	5	5
MATH 250, 221 Calculus II, Linear Algebra	4	3
ENGL 102 Composition & PHIL 105 Logic	3	3
<i>Total</i>	17	16

THIRD YEAR	FALL	SPRING
CHEM 360/361, 460/463 Physical Chemistry	4	4
MATH 305 Ordinary Differential Equations	3	-
PHYS 205a,b 255a,b University Physics	4	4
UCC Human Health & Humanities	2	3
Speech 101 & ENGL 290 Writing	3	3
<i>Total</i>	16	14

FOURTH YEAR	FALL	SPRING
CHEM 434 Instrumental Analysis	4	-
CHEM 444 Intermediate Organic	3	-
CHEM 410/411 Inorganic Chemistry	-	5
CHEM 490, 396 Research	2	1
MATH 483 Statistics	4	-
UCC Fine Arts & Multicultural	-	6
UCC Social Science	3	3
<i>Total</i>	16	15