

Bachelor of Science Degree in Chemistry, College of Science Environmental 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	60
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 483 ⁴	(6) + 6
Physics 205a,b; 255a,b	8
Chemistry 431, 434, 442, 443	12
Environmental Chemistry Electives.....	3
Select at least three hours at 300- to 400-level in one courses selected from:	
Civil Engineering 310, 418; Forestry 452 with 452L; Geology 418, 421;	
Mechanical Engineering 410, 416; Microbiology 423, 425; Plant and Soil	
Science 442, 446, 447 with 448; Plant Biology 427; Zoology 411 or 432.	
<i>Electives</i>	13
Total	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 for Mathematics 483.

Environmental Chemistry Specialization Curricular Guide

Chemistry B.S. with ACS Certificate and Environmental Studies 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
BIOL 307 Ecology	-	3
CHEM 330 Quantitative Analysis	5	-
CHEM 350/351 Biochemistry	-	5
CHEM 340/341, 442/443 Organic Chemistry	5	5
MATH 250 Calculus II	4	-
ENGL 102 Composition & PHIL 105 Logic	3	3
<i>Total</i>	17	16

THIRD YEAR	FALL	SPRING
CHEM 360/361 Physical Chemistry	4	-
CHEM 431 Environmental Chemistry	-	3
CHEM 434 Instrumental Analysis	4	-
PHYS 205a,b 255a,b University Physics	4	4
ZOOL 411 Risk Assessment	-	3
UCC Human Health & UCC Humanities	2	3
Speech 101 & ENGL 290 Writing	3	3
<i>Total</i>	17	16

FOURTH YEAR	FALL	SPRING
AGRI 300i Environmental Issues	3	-
CE 310 Environmental Engineering	3	-
CHEM 410/411 Inorganic Chem.	-	5
CHEM 490, 396 Research	2	1
FOR 480 Natural Resource Conflict	3	-
MATH 483 Statistics	-	4
ZOOL 470 Interdisciplinary Approaches	-	3
UCC Fine Arts & Multicultural	3	3
UCC Social Science	3	-
<i>Total</i>	17	16