

Associate of Science to Bachelor of Science in Chemistry

Completion of the following curriculur	n will satisfy the requirements for the Associate of Science (AS)
degree at Cincinnati State (CState) and I	eads to the Bachelor of
Cincinnati State.	

1) Completion of minimum 62 credit hours, 36 of which from approved Ohio Transfer 36 courses, 2) minimum cumulative GPA 2.0, 3) completion of an FYE course as part of the first 12 credit hours taken at Cincinnati State, and 4) completion of Cooperative Education.

SIKIdents completing an associate degree with a cumulative GPA of 2.0 or higher will be accepted into

Items that grade all the true sate of the result of 2.0 and meet all prerequisites for courses and requirements for the major.

Students who aspire to careers as professional chemists should seek to obtain the Bachelor of Science. Students must complete the core courses listed below plus one of the four tracks:

General Chemistry Track (ACS Certified) Biochemistry Track Forensics Track Pharmaceutical Sciences Track

Students majoring in chemistry are urged to participate in independent research (CHE 292 or CHE 492) and are also encouraged to take at least one year of a foreign language and additional mathematics coursework beyond the required Calculus II. A student completing the Bachelor of Science in chemistry is not required to complete a minor or a focus.

The general chemistry track is approved by the American Chemical Society, as it meets certain requirements prescribed by that organization. Students may also receive ACS approval in the Bachelor of

CHE 300	Careers in Chemistry	1	
CHE 320/320L	Inorganic Chemistry with Lab	5	
CHE 350/350L	Instrumental Analysis with Lab	5	
CHE 361	Physical Chemistry II	3	
CHE 362L	Physical Chemistry Lab	2	
CHE 400	Chemistry Seminar	1	
Select 3 credit	Select 3 credits hours from the following		
hours:	advanced content coursework:		
CHE 410	Spectrometric Identification of Compounds (3)		
CHE 440	Environmental Chemistry (3)		
CHE 450	Advanced Chemical Analysis (3)	3	
CHE 460/460L	Molecular Spectroscopy with Lab (4)	3	
CHE 483	Biochemistry II		
CHE 511	Natural and Medicinal Product Synthesis (3)		
CHE 512	Physical Organic Chemistry (3)		
CHE 560	Quantum Mechanics (3)		
Select 3 credit	Select at least 3 credit hours from the following		
hours:	advanced research methods coursework:		
CHE 392	Advanced Laboratory Projects (1-3)		
CHE 482L	Biochemistry I Laboratory (1)	3	
CHE 483L	Biochemistry II Laboratory (1)		
CHE 492	Research: Chemistry (1-3)		
CHE 505	The History of Chemistry (2-3)		[

BIO 436	Advanced Biology of the Cell	3	
CHE 320/320L	Inorganic Chemistry with Lab	5	
CHE 350/350L	Instrumental Analysis with Lab	5	

Note: To receive American Chemistry Society (ACS) approval, CHE 320 and CHE 320L must be taken as one course in this track

CHE 300	Careers in Chemistry	1		
CHE 361	Physical Chemistry II	3		
CHE 362L	Physical Chemistry Lab	2		
CHE 400	Chemistry Seminar	1		
CHE 482L	Biochemistry I Laboratory	1		
BIO 150/150L	Introduction to Biology I with lab	4	BIO 131	
BIO 151/151L	Introduction to Biology II with lab	4	BIO 132	
BIO 349/349L	Genetics with lab	4		
BIO 400/400L	Advanced Molecular Biology with lab	4		
STA 205	Statistical Methods	3	MAT 131 + MAT 132	
JUS 101	Introduction to Criminal Justice	3	CRJ 105	
JUS 204	Criminal Investigation	3	CRJ 130	
Select at least	Select at least one course from the following:			
one course:				
BIO 455	Scanning Electron Microscopy	3		
CHE 350/350L	Instrumental Analysis with lab	5		

BIO 150/150L	Introduction to Biology I with Lab	4	BIO 131
BIO 151/151L	Introduction to Biology II with Lab	4	BIO 132
DIO 000 (000)		4	DIO 454

BIO 208/208L Human Anatomy and Physiology I with Lab 4 BIO 151