


STATE DISCIPLINE FRAMEWORK COURSE STRUCTURE - PRIVATE COLLEGE APPROVAL DOCUMENTATION

DISCIPLINE FRAMEWORK:	Chemistry	Framework CREDITS	22	PRIVATE COLLEGE/UNIVERSITY:	Central College
Sponsoring Community College:		Total Award CREDITS	-60 or 60-64		
Electronic Signature 4-year college				4-Year College Contact Name:	Lee Macomber
College Signed Date:	4/21/2025	Date TMSA Approved for All TM:		4-Year College Contact Email:	macomberl@central.edu
CC AWARD TYPE:	AS	CIP #	40.05010200	ITSO	03 09 11 03

Core Elements	Cr Hrs	CC Course Number	Community College Course Name	4-Year Private	Cr Hrs	4-Year Course #	4-Year Course Name(s)	Articulation Issues/Questions/Advising Notes
General Chemistry Sequence	8	CHM 165 + CHM 175	General Chemistry I & II	Central College	8	CHEM 111 + CHEM 112	General Chemistry with Lab I & II	
OR		CHM 166 + CHM 176 (10)	General Chemistry I & II					
OR		CHM 157 + CHM 158 + CHM 159 (10)	Principles of Chemistry I, II, & III					
OR		CHM 163 + CHM 164 + CHM 173 + CHM 174 (8)	General Chemistry I + Lab & General Chemistry II + Lab					
OR		CHM160 + CHM 161 + CHM 170 + CHM171 (9)	Chemistry I + Lab & Chemistry II + Lab					
Calculus I	4	MAT 210	Calculus I	Central College	4	MATH 131	Calculus I	
OR		MAT 211 (5)	Calculus I					
Calculus II	4	MAT 216	Calculus II	Central College	4	MATH 132	Calculus II	
OR		MAT 217 (5)	Calculus II					
Gen. Organic Chem Sequence	8	CHM 261 + CHM 271 (8)	Organic Chemistry I & II	Central College	8	CHEM 231 & CHEM 331	Organic Chmeistry with Lab I & II	
OR		CHM 262 + CHM 272 (9)	Organic Chemistry I & II					
OR		CHM 263 + CHM 273 (10)	Organic Chemistry I & II					

OR		CHM 263 + CHM 273 (10)	Organic Chemistry I & II					
OR		CHM 251 + CHM 252 + CHM 253 (9)	Organic Chemistry I & II & III					
General Biology Sequence	0 or 4	BIO 112	General Biology I	Central College	4	BIOL 131	Introduction to Cells with Lab	Required for the Bachelor of Science Chemistry major but not required for the Bachelor of Arts Chemistry major.
OR	0 or 3	BIO 122	General Biology IIID					
Calculus-Based Physics Sequence	10	PHY 213 + PHY 223 (10)	Classical Physics I & II	Central College	10	PHYS 111 & PHYS 112	General Physics I & II	The requirement is calculus based physics
OR		PHY 200 + PHY 201 + PHY 202 (9)	Classical Physics I & II & III					
Remaining Math/Science	0	Varies	Varies	Central College	19 or 40	Varies	Varies	These credits account for the remaining Chemistry major requirements: 19 credits for a Bachelor of Art degree or 40 credits for a Bachelor of Science degree.
Remaining Communications	9	Varies	Varies	Central College	3-4	Varies	Writing and Oral Communication (WOC)	1 course with Writing and Oral Communication (WOC) designation at the 300-level or higher.
Remaining Humanities	6	Varies	Varies	Central College	0			Humanities requirements are covered in the A.A./A.S. degree.
Remaining Social Sciences	6	Varies	Varies	Central College	0			Social Science requirements are covered in the A.A./A.S. degree.
Remaining Distributed	0	Varies	Varies	Central College	3-4	Varies	Citizenship (CTN)	1 course with Citizenship (CTN) designation at the 300-level or higher.
Remaining Electives	19	Varies	Varies	Central College	-13 or 18-	Varies	Varies	These credits will enable the student to reach the graduation requirement of 120 credits for a Bachelor of Arts (11 - 13 credits) degree or 124 credits for a Bachelor of Science (18 - 20 credits) degree
Total Community College credits:	60-64	Varies	Varies	4-Year credits: (Must be 60-64)	-60 or 60-64			56-60 credits for a Bachelor of Arts degree and 60-64 credits for a Bachelor of Science degree.
Notes:	Central College's Bachelor of Science Chemistry degree is an American Chemical Society accredited degree. Students interested in graduate school or an industrial career should consider the Bachelor's of Science degri							

