

STATE DISCIPLINE FRAMEWORK COURSE STRUCTURE - PRIVATE COLLEGE APPROVAL DOCUMENTATION

DISCIPLINE FRAMEWORK:		Biology		Framework CREDITS	20-22	PRIVATE COLLEGE/UNIVERSITY:		Clarke University
Sponsoring Community College:		Northeast Iowa Community College		Total Award CREDITS	60-64			
Electronic Signature 4-year college						4-Year College Contact Name:		Melissa MeDotta
College Signed Date:	5/7/24	Date TMSA Approved for All TM:				4-Year College Contact Email:		melissa.demotta@clarke.edu
CC AWARD TYPE:	AS	CIP #	26.01010200	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 Biology Sequence	8	BIO112 + BIO113	General Biology I & II	Clarke University	8	BIO115 & BIO116	Fundamentals of Cell Biology and Genetics (4), Ecology, Evolution and Diversity (4)	
OR		BIO114 + BIO115 (8)	General Biology IA & IIA			BIO115 & BIO116	Fundamentals of Cell Biology and Genetics (4), Ecology, Evolution and Diversity (4)	
OR		BIO116 + BIO117 (8)	General Biology I & II			BIO115 & BIO116	Fundamentals of Cell Biology and Genetics (4), Ecology, Evolution and Diversity (4)	
OR		BIO202 + BIO203 (8)	Biology I & II			BIO115 & BIO116	Fundamentals of Cell Biology and Genetics (4), Ecology, Evolution and Diversity (4)	
OR		BIO102 + BIO103 + BIO106 + BIO107 (8)	Introductory Biology I + Lab & Introductory Biology II + Lab			BIO115 & BIO116	Fundamentals of Cell Biology and Genetics (4), Ecology, Evolution and Diversity (4)	
OR		BIO120 + BIO121 + BIO122 (10)	General Biology ID + IID + IIID			BIO115 & BIO116	Fundamentals of Cell Biology and Genetics (4), Ecology, Evolution and Diversity (4)	
Calculus	4	MAT210	Calculus I	Clarke University	4	MATH 225	Calculus I	Clarke University recommends that students complete the math requirement for the Biology degree during the first two years of college. Calculus I is the math requirement for the BS in Biology at Clarke University. Statistics or Precalculus with Algebra will satisfy the math requirement for a BA in Biology at Clarke University.
OR		MAT211 (5)	Calculus I					
General Chemistry Sequence	8	CHM165 + CHM175	General Chemistry I & II	Clarke University	8 or 10	CHEM 110 & CHEM 111	GENERAL CHEMISTRY I (4) & GENERAL CHEMISTRY II (4)	For students interested in a BA in Biology , Clarke University recommends that students take CHM261 Organic Chemistry I with a lab . For students interested in a BS in Biology , Clarke University recommends that students take CHM261 (Organic Chemistry I) and CHM271 (Organic Chemistry II) with labs .
OR		CHM166 + CHM176 (10)	General Chemistry I & II			CHEM 110 & CHEM 111	GENERAL CHEMISTRY I (4) & GENERAL CHEMISTRY II (4)	
OR		CHM157 + CHM158 + CHM159 (10)	Principles of Chemistry I, II & III			CHEM 110 & CHEM 111	GENERAL CHEMISTRY I (6) & GENERAL CHEMISTRY II (4)	
OR		CHM 163 + CHM164 + CHM173 + CHM174 (8)	General Chemistry I + Lab & General Chemistry II + Lab			CHEM 110 & CHEM 111	GENERAL CHEMISTRY I (4) & GENERAL CHEMISTRY II (4)	
OR		CHM160 + CHM161 + CHM170 + CHM171 (9)	Chemistry I + Lab & Chemistry II + Lab			CHEM 110 & CHEM 111	GENERAL CHEMISTRY I (4) & GENERAL CHEMISTRY II (4)	
Remaining Math/Science		Clarke University accepts the Associates of Arts and Associates of Science degrees from institutions accredited by the Higher Learning Commission (HLC) or its national affiliated equivalent accrediting associations. These students will enter Clarke with junior status, and fulfill the Clarke Compass (general education) requirements with the AA or AS degree in addition to completing the following courses: CMPS 102 - Compass Navigator: Transfer and Non-Traditional (1 credit) and CMPS 450 - Compass Seminar III (3 credits).						
Remaining Communications								
Remaining Humanities								
Remaining Social Sciences								
Remaining Distributed								
Remaining Electives								
Total Community College credits:		Varies	Varies	4-Year credits: (Must be 60-64)	60-64			

The **BS in Biology** requires two semesters of Physics. If students are unable to take Chemistry, they can take **PHY162 (Physics I) and PHY172 (Physics II) with labs**. Students interested in the **BA in Biology and applying to the Physical Therapy graduate program** can take **PHY162 (Physics I) and PHY172 (Physics II) with labs** if they cannot take chemistry.

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