

**UNION COUNTY COLLEGE (UNION) & KEAN UNIVERSITY (KEAN)  
TRANSFER GUIDE A.S. CHEMISTRY AT UNION TO  
B.A. CHEMISTRY (GENERAL OPTION)**

UNION COURSE	CRS.	KEAN EQUIVALENT COURSE	CRS.
ENG 101 English Composition I	3	ENG 1030 College Composition	3
CHE 111 + CHEL111 General Chemistry I (Lecture & Lab)	4	CHEM 1083 Chemistry I	4
MAT 171 Unified Calculus I	4	MATH 2415 Calculus I	4
CSC 100 Computer Programming Fundamentals OR CSC 115 Introduction to Computer Programming	3	CPS 1231 Fundamentals of Computer Science	4
HIS 101 Intro. To Western Civilization I	3	HIST 1030 History of Western Civilization I	3
Credits	17		
ENG 102 English Composition II	3	GE 2024 Research and Technology	3
CHE 112 + CHEL112 General Chemistry II (Lecture & Lab)	4	CHEM 1084 Chemistry II	4
PHY 111 + PHYL111 Mechanics (Lecture & Lab)	4	PHYS 2095 Physics I	4
MAT 172 Unified Calculus II	4	MATH 2416 Calculus II	4
Credits	15		
CHE 211 Organic Chemistry I Lecture CHEL211 Organic Chemistry I Lab	5	CHEM 2581 Organic Chem Lecture I + CHEM 2583 Organic Chem Lab I	5
PHY 201 + PHYL201 Electricity and Magnetism (Lecture & Lab)	4	PHY 3097 Physics III	4
ENG 128 Dynamics of Communication	3	COMM 1402 Speech Communication as Critical Citizenship	3
FIA 105 Music Appreciation	3	MUS 1000 Music Survey	3
Credits	15		
CHE 212 Organic Chemistry II Lecture CHEL212 Organic Chemistry II Lab	5	CHE 2582 Organic Chemistry Lecture II CHE 2584 Organic Chemistry Lab II	5
MAT 265 Linear Algebra	3	MATH 2995 Matrix Math & Linear Algebra	3
PSY 101 General Psychology	3	PSY 1000 General Psychology	3
ENG 209 World Literature I (Fall Only)	3	ENG 2403 World Literature	3
Credits	14		
<b>TOTAL UNION CREDITS</b>	<b>61</b>	<b>TOTAL CREDITS TRANSFERABLE TO KEAN</b>	<b>62</b>

**UNION COUNTY COLLEGE (UNION) & KEAN UNIVERSITY (KEAN)  
TRANSFER GUIDE CHEMISTRY A.S. AT UNION TO  
B.A. CHEMISTRY (TEACHER CERTIFICATION OPTION) AT KEAN**

UNION COURSE	CRS.	KEAN EQUIVALENT COURSE	CRS.
ENG 101 English Composition I	3	ENG 1030 College Composition	3
CHE 111 + CHEL111 General Chemistry I (Lecture & Lab)	4	CHEM 1083 Chemistry I	4
MAT 171 Unified Calculus I	4	MATH 2415 Calculus I	4
CSC 100 Computer Programming Fundamentals OR CSC 115 Introduction to Computer Programming	3	CPS 1231 Fundamentals of Computer Science	4
HIS 101 Intro. To Western Civilization I	3	HIST 1030 History of Western Civilization I	3
Credits	17		
ENG 102 English Composition II	3	GE 2024 Research and Technology	3
CHE 112 + CHEL112 General Chemistry II (Lecture & Lab)	4	CHEM 1084 Chemistry II	4
PHY 111 + PHYL111 Mechanics (Lecture & Lab)	4	PHYS 2095 Physics I	4
MAT 172 Unified Calculus II	4	MATH 2416 Calculus II	4
Credits	15		
CHE 211 Organic Chemistry I Lecture CHEL211 Organic Chemistry I Lab	5	CHEM 2581 Organic Chem Lecture I + CHEM 2583 Organic Chem Lab I	5
PHY 201 + PHYL201 Electricity and Magnetism (Lecture & Lab)	4	PHY 3097 Physics III	4
ENG 128 Dynamics of Communication	3	COMM 1402 Speech Communication as Critical Citizenship	3
ENG 209 World Literature I (Fall Only)	3	EMSE 2801 Intro. Field Exp/Subj. Area P-12 ENG 2403 World Literature	3
Credits	15		
CHE 212 Organic Chemistry II Lecture CHEL212 Organic Chemistry II Lab	5	CHE 2582 Organic Chemistry Lecture II CHE 2584 Organic Chemistry Lab II	5
MAT 265 Linear Algebra	3	MATH 2995 Matrix Math & Linear Algebra	3
EDU 205 Educational Psychology	3	EDUC 3000 Curriculum, Eval., & The Learner	3
EDU 215 Field Work in Education	3	EMSE 2801 Intro. Field Exp/Subj. Area P-12	3
Credits	15		
<b>TOTAL UNION CREDITS</b>	<b>62</b>	<b>TOTAL CREDITS TRANSFERABLE TO KEAN</b>	<b>62</b>