

**UNION COUNTY COLLEGE (UNION) & KEAN UNIVERSITY (KEAN)  
TRANSFER GUIDE MATHEMATICS (A.S) AT UNION TO  
BA IN MATHEMATICAL SCIENCES (GENERAL OPTION)**

UNION COURSE	CRS.	KEAN EQUIVALENT COURSE	CRS.
ENG 101 English Composition I	3	ENG 1030 College Composition	3
MAT 171 Unified Calculus I	4	MATH 2415 Calculus I	4
PHY 101 + PHYL111 General Physics I Lecture + Mechanics Lab	3 1	PHYS 2091 General Physics I	4
CSC 100 Computer Programming Fundamentals	3	CPS 1231 Fund. Of Computer Science	3
<b>CREDITS</b>	<b>14</b>		
ENG 102 English Composition II	3	GE 2024 Research and Technology	3
MAT172 Unified Calculus II	4	MATH 2416 Calculus II	4
PHY 102 + PHYL102 General Physics II (Lecture + Lab)	4	PHYS 2092 General Physics II	4
CSC 101 Computer Algorithms	3	CPS 1231 Fundamentals of Computer Science	4
HIS 101 Intro. to Western Civilization I	3	HIST 1030 Western Civilization	3
<b>CREDITS</b>	<b>17</b>		
ENG 209 World Literature I	3	ENG 2403 World Literature	3
MAT 271 Unified Calculus III	4	MATH 3415 Calculus III	4
MAT 265 Linear Algebra	3	MATH 2995 Matrix and Linear Algebra	3
PSY 101 General Psychology	3	PSY 1000 General Psychology	3
Humanities Elective	3	Elective	3
<b>CREDITS</b>	<b>16</b>		
MAT 272 Differential Equations	4	MATH 3455 Differential Equations	3
MAT 267 Discrete Mathematics	3	MATH 2110 Discrete Mathematics	3
SOC 101 Principles of Sociology	3	SOC 1000 Intro to Sociology	3
MAT 266 Survey of Modern Math	3	MATH 2110 Intro to Proofs	3
General Education Elective	3	Free Elective 1000-4000 level	3
<b>CREDITS</b>	<b>16</b>		
<b>TOTAL UNION CREDITS</b>	<b>63</b>	<b>TOTAL CREDITS TRANSFERABLE TO KEAN</b>	<b>63</b>

**UNION COUNTY COLLEGE (UNION) & KEAN UNIVERSITY (KEAN)  
TRANSFER GUIDE MATHEMATICS (A.S) AT UNION TO  
BA IN MATHEMATICAL SCIENCES (TEACHER CERTIFICATION OPTION)**

UNION COURSE	CRS.	KEAN EQUIVALENT COURSE	CR S.
ENG 101 English Composition I	3	ENG 1030 College Composition	3
MAT 171 Unified Calculus I	4	MATH 2415 Calculus I	4
PHY 101 + PHYL111 General Physics I Lecture + Mechanics Lab	3 1	PHYS 2091 General Physics I	4
CSC 100 Computer Programming Fundamentals	3	CPS 1231 Fund. Of Computer Science	3
<b>CREDITS</b>	<b>14</b>		
ENG 102 English Composition II	3	GE 2024 Research and Technology	3
MAT172 Unified Calculus II	4	MATH 2416 Calculus II	4
PHY 102 + PHYL102 General Physics II (Lecture + Lab)	4	PHYS 2092 General Physics II	4
CSC 101 Computer Algorithms	3	CPS 1231 Fundamentals of Computer Science	4
HIS 101 Intro. to Western Civilization I	3	HIST 1030 Western Civilization	3
<b>CREDITS</b>	<b>17</b>		
ENG 209 World Literature I (Fall Only)	3	ENG 2403 World Literature	3
MAT 271 Unified Calculus III	4	MATH 3415 Calculus III	4
MAT 265 Linear Algebra	3	MATH 2995 Matrix and Linear Algebra	3
ENG 128 The Dynamics of Communication	3	COMM 1402 Speech Comm as Critcl Ctnshp	3
Elective Humanities - Foreign Language	3	Elective Humanities – Foreign Language EDUC 3000 Curr, Eval, & The Learner	3
<b>CREDITS</b>	<b>16</b>		
MAT 272 Differential Equations	4	MATH 3455 Differential Equations	3
MAT 267 Discrete Mathematics	3	MATH 2110 Discrete Mathematics	3
PSY 10 General Psychology	3	PSY 1000 General Psychology,	3
MAT 266 Survey of Modern Math	3	MATH 2110 Intro to Proofs	3
EDU 215 Field Work in Education	3	EMSE 2801 Intro Field Exp/Subj. Area P-12	3
<b>CREDITS</b>	<b>16</b>		
<b>TOTAL UNION CREDITS</b>	<b>63</b>	<b>TOTAL CREDITS TRANSFERABLE TO KEAN</b>	<b>63</b>