



KEAN UNIVERSITY

COLLEGE OF NATURAL APPLIED AND HEALTH SCIENCES

(72102) B.S. IN CHEMISTRY (EXPANDED OPTION – ACS CERTIFIED) 124 S.H.



Articulation Guide Sheet for students graduating from Union County College with the A.S. Chemistry degree and transferring to Kean University

Kean University Courses are in Blue (63 S. H.) Union County College equivalents are in RED (61 S. H.)

EFFECTIVE DATE: Spring 2018

KEAN DECLARATION AND GRADUATION GPA REQUIREMENT: 2.0

GENERAL EDUCATION 45 S.H.			ACADEMIC MAJOR and Capstone Requirement ¹ 57 S.H.	
Foundation Requirements: 13 S.H.			CHEM 1083 Chemistry I	CHE 111 General Chemistry I 4
G.E. 3000 Transfer Transitions 1			CHEM 1084 Chemistry II	CHE 112 General Chemistry II 4
ENG 1030 English Comp ¹	ENG 101 English Composition I ¹	3	CHEM 2283 Quantitative Analysis 4	
MATH 1000 College Algebra ²	MAT 119 Algebra ²	3	CHEM 2581 Organic Chem I	CHE 211 Organic Chemistry I 3
COMM 1402 Speech Comm	ENG 128 or ENG 129	3	CHEM 2583 Organic Lab I ^{WE}	
GE 2024 Research & Tech	ENG 102 English Composition II ¹	3	CHEM 2582 Organic Chem II	CHE 212 Organic Chemistry II 3
			CHEM 2584 Organic Lab II	
DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION COURSES			CHEM 2491 Inorganic Chemistry 3	
Humanities: 6 S.H.			CHEM 3284 Instrumental Methods of Analysis ^{WE} 4	
ENG 2403 World Literature	ENG Lit from Humanities Gen Ed Req	3	CHEM 3381 Physical Chemistry I 3	
Select one course from below			CHEM 3382 Physical Chemistry II 3	
Fine Arts/Art History	Any Union approved Humanities General Education Requirement course excluding English and History.	3	CHEM 3383 Physical Chemistry Lab and Recitation I 2	
Philosophy or Religion			CHEM 3384 Physical Chemistry Lab and Recitation II 2	
Foreign Languages			CHEM 3581 Biochemistry 3	
Music or Theatre			CHEM 4481 Advanced Inorganic Chemistry 3	
Interdisciplinary			CHEM 4483 Inorganic Chemistry Laboratory 3	
			One additional 4000 level Chemistry Lab Course 3	
Social Sciences: 6 S.H.			One 4000 level lecture course in Chemistry, Physics, Math or Earth Science 3	
HIST 1062 Worlds of History	Any HIS from Humanities Gen Ed Req	3		
Select one course from below				
Psychology	Any Social Science General Education Requirement course.	3	G.E. and Major Capstone¹: 3 S.H.	
Economics or Geography			CHEM 4908 Seminar in Chemistry 3	
Political Science				
Sociology or Anthropology			FREE ELECTIVES: 15 S.H. At least 50% must be 3000/4000 level.	
Interdisciplinary			Any Kean University Course 3	
			Any Kean University Course 3	
Science and Mathematics: 7 S.H.			Any Kean University 3000-4000 level course (except CHEM) 3	
MATH 1054 Precalculus ^{2,3}	MAT 155 Elemen Math Analysis ^{2,3}	3	Any Kean University 3000-4000 level course (except CHEM) 3	
PHYS 2095 Physics I	PHY 111 + PHYL 111 Mechanics	4	Any Kean University 3000-4000 level course (except CHEM) 3	
Additional Required Courses: 20 S.H.			TOTAL CREDITS 124 S.H.	
MATH 2415 Calculus I ³	MAT 171 Unified Calculus I ³	4	² Students whose qualifying score on the placement test makes them directly eligible to take MATH 1054 (MAT 155) are not required to take MATH 1000 (MAT 119) and replace that with either CST 161 or CST 115 or MAT 265 (3 credits total).	
MATH 2416 Calculus II	MAT 171 Unified Calculus II	4		
MATH 3415 Calculus III		4		
PHYS 2096 Physics II		4		
PHYS 2097 Physics III	PHY 201 + PHYL 201 Electricity and Magnetism	4	³ Students whose qualifying score on the placement test makes them directly eligible to take MATH 2514 (MAT 171) are not required to take either MATH 1000 (MAT 119) or MATH 1054 (MAT 155) and can replace those two courses with CST 161 or CST 115 and MAT 265 (6 credits total).	
¹ ENG 1030 (ENG 101), all Major courses and the G.E. and Major Capstone Course (CHEM 4908) all require a grade of C or better.			^{WE} Designates a Writing Emphasis course.	