

For students graduating from Middlesex County College with the A.S. in Biology – Science Transfer and transferring to Kean University  
**Kean University Courses are in Blue (60 S. H.) Middlesex County College courses are in Green (64 S. H.)**

**EFFECTIVE DATE: Spring 2018**
**KEAN DECLARATION AND GRADUATION GPA REQUIREMENT: 2.5\***

GENERAL EDUCATION REQUIREMENTS: 48 S.H.			Additional Required Courses: 25 S.H.		
<b>Foundation Requirements: 13 S.H.</b>			<b>Additional Required Courses: 25 S.H.</b>		
GE 3000 Transfer Transitions		1	CHEM 2581 Organic Chemistry Lecture I <sup>1</sup>	3	
ENG 1030 English Comp <sup>1</sup>	ENG 121 English Composition I <sup>1</sup>	3	CHEM 2583 Organic Chemistry Lab I	2	
MATH 1054 Pre-Calculus <sup>2</sup>	MAT 129 Precalculus I <sup>2</sup>	3	CHEM 2582 Organic Chemistry Lecture II <sup>1</sup>	3	
COMM 1402 Speech Communication		3	CHEM 2584 Organic Chemistry Lab II	2	
GE 2024 Research & Technology	ENG 122 English Composition II	3	ENV 1000 Intro to Environmental Science	3	
			MATH 2415 Calculus I <sup>2</sup>	MAT 131 Analyt Geo and Calc I <sup>2</sup>	4
			PHYS 2091 Gen Physics I	PHY 123 + PHY 125 Gen Phys I	4
<b>DISCIPLINARY &amp; INTERDISCIPLINARY DISTRIBUTION COURSES</b>			PHYS 2092 Gen Physics II	PHY 124 + PHY 126 Gen Phys II	4
<b>Humanities: 9 S.H.</b>					
ENG 2403 World Literature	HED 150 Contemp Health Issues <sup>3</sup>	3	<b>ACADEMIC MAJOR COURSES<sup>1</sup>: 32 S.H.</b>		
Select <b>Two</b> courses from below			<b>Required: Courses in Biology<sup>1</sup>: 24 S.H.</b>		
Fine Arts/Art History	Select one course from Middlesex list of Humanities (GE HUM) courses, excluding History.	3	BIO 1300 Gen Biology I	BIO 123 General Biology I	4
Philosophy or Religion			BIO 1400 Gen Biology II	BIO 124 General Biology II	4
Foreign Languages			BIO 2500 Principles of Botany		4
Music or Theatre	Middlesex Biology elective: BIO 224, BIO 228, BIO 229 or BIO 240 <sup>3</sup>	3	BIO 3400 Zoology Form & Function <sup>2</sup>		4
Interdisciplinary			BIO 3614 Principles of Ecology		4
			BIO 3709 Genetics		4
<b>Social Sciences: 9 S.H.</b>					
HIST 1062 Worlds of History	Any HIS course from GE HUM list	3	<b>Required: Major Electives<sup>1</sup>: 8 S.H.</b>		
Psychology	Select one course from Middlesex list of Social Science (GE SS) courses.	3	<i>Selected with departmental faculty advisement at the 3000/4000 level</i>		
Economics or Geography			BIO 3000/4000 level course	BIO 221 Microbiology	4
Political Science			BIO 3000/4000 level Kean University Course		4
Sociology or Anthropology	CSC 106 Intermediate PC Applications with Programming <sup>3</sup>	3			
Interdisciplinary				<b>FREE ELECTIVES: 19 S.H.</b>	
			At least 50% must be at the 3000/4000 level		
<b>Science and Mathematics: 11 S.H.</b>			FEX 1000 Generic lower elective		1
MATH 1016 Statistics (Bio Section)	MAT 123 Statistics I (Fulfills Middlesex Sci / Math Prog Elective)	3	Any Kean University Course		3
<i>Lab Sciences</i>			Any Kean University Course		3
CHEM 1083 Gen Chemistry I <sup>1</sup>	CHM 121 + CHM 125 Gen Chem II <sup>1</sup>	4	Any 3000/4000 level Kean University Course		3
CHEM 1083 Gen Chemistry II <sup>1</sup>	CHM 122 + CHM 126 Gen Chem II <sup>1</sup>	4	Any 3000/4000 level Kean University Course		3
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<b>Health/Physical Education: 2 S.H.</b>					
ID 1010 or ID 1225 or two 1 credit PED courses	One credit from MAT-129 plus 1 credit from Biology Elective	2	<b>TOTAL CREDITS</b>		<b>124 S.H.</b>
<b>Major Capstone<sup>1</sup>: 3 S.H.</b>					
BIO 4970 Seminar in Integrative Biology <sup>1</sup>		3			
<sup>1</sup> Eng 1030, all major courses and the capstone course (BIO 4970) all require a grade of C or better.			<sup>2</sup> Students whose score on the placement test makes them eligible to take MATH 1054 (MATH 192 at OCC) or MATH 2415 (MATH 265 at OCC) can start with that course, and will have an additional 3 or 6 credits of free electives to total 124 degree credits. Students whose score does not make them eligible to take MATH 191 will need to take the appropriate pre-requisite courses.		
* A minimum cumulative GPA of 2.5 is required for acceptance as a declared Biology major and must be maintained to remain in the Biology major.			<sup>3</sup> Course required for the A. S. in Biology at Middlesex. This substitution is allowed under the NJ Statewide Transfer Agreement if you graduate with the A. S. degree. If you do not complete the A. S. degree, this and other courses will be required, as determined by initial transfer credit evaluation.		