

# Kean University

## Curriculum Map (REVISION 7.24.2012)

### Course to Program/Discipline Level Student Learning Outcomes

#### **B.S. Science & Technology / Biomedicine (NJ Center for Science, Technology & Mathematics)**

The biomedicine curriculum prepares students to achieve the expected student learning outcomes (SLOs) identified by the program. The following table demonstrates how learning activities in the required courses map to these learning outcomes.

Key: I-Introduced                  R-Reinforced                  M-Mastery                  A-Assessment evidence collected

	<b>Program/Discipline Student Learning Outcomes</b>				
	<b>SLO 1 Biomedical Knowledge</b> (KU1 to 4; GE K1, S1 to S5, V1,2,3,5)	<b>SLO 2 Holistic Knowledge</b> (KU1 to 4; GE K1, S1 to S5, V2, V4)	<b>SLO 3 Critical Thinking</b> (KU1, 4; GE K1, S1 to S5)	<b>SLO 4 Foreign Language</b> (KU1,2,3; GE S1,S2, V4)	<b>SLO 5 Communication</b> (GE S1 to S5, V4)
<b>Required Courses</b>					
GE 1000 Transition to Kean (NJCSTM majors only section)			I		I
GE 2024 Research & Technology (NJCSTM majors only section)		I	R		R,A
STME 1403 Math & Comp Methods of Science I	I	I	I		
STME 1603 Math & Comp Methods of Science II	R	R,A	R,A		
STME 1401 Chemical Systems I	I	I			

## Kean University

STME 2403 Math. & Computational Methods of Science III	R	R	R		
STME 2603 Probabilistic Methods in Science	I	I	I		
STME 1601 Chemical Systems II	I	I	I		R
STME 2401 Physical Systems	I	I	I		R
STME 2402 Physical Systems II	R	R	R		R
STME 2601 Living Systems	R	R	R	R	R
STME 2610 Current Issues in Science & Technology I	I	I	I	I	I
STME 3610 Current Issues in Science & Technology II	R	R,A	R,A	R	R,A
CHEM 2581 Organic Chemistry I	R	R			
CHEM 2583 Organic Chemistry Lab I	R	R	R	R	R
CHEM 2582 Organic Chemistry II	R	R			
CHEM 2584 Organic Chemistry Lab II	R	R	R	R	R

# Kean University

BIO 3403 Anatomy / Physiology I	R	R	R		
BIO 3404 Anatomy / Physiology II	R	R	R		
BIO 3305 Principles of Microbiology	R	R	R		
BIO 3704 Principles of Genetics	R	R	R	R	
BIO 3705 Principles Genetics Lab	R	R	R	R	R
BIO 3405 Basic Gross Anatomy	M	R	R		
BIO 4105 Essentials of Biochemistry	M	R, M	R		
Foreign Language Course #1				I	
Foreign Language Course #2				R	
Foreign Language Course #3				R	
Foreign Language Course #4				M	
STME 4610 Science & Technology Seminar WE	R, A	R,A	M,A	R	M,A
BIO 4315 Immunology	R	R	R		

## Kean University

BIO 4310 Virology	R	R	R			
STME 4410 Systems Neuroscience	R	R, M				
STME 3520 Preceptorship I (Drexel Link Only) OR Major Elective with Advisement	R	R	R			
STME 4520 Preceptorship II (Drexel Link Only) OR Major Elective with Advisement	R	R	R			
STME 4611 NJCSTM Service Learning (taken w/STME 4610)		M		M, A	R	