

Kean University

Curriculum Map (REVISION 7.24.2012)

Course to Program/Discipline Level Student Learning Outcomes

M.S. Biotechnology Science (New Jersey Center for Science, Technology & Mathematics)

The graduate biotechnology 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

Program/Discipline Student Learning Outcomes						
Required Courses		SLO 1 Applied Knowledge (KU 1, 2 & 4)	SLO 2 Holistic Knowledge (KU 1, 2 & 4)	SLO 3 Ethics (KU 1 & 3)	SLO 4 Communication (KU 1 & 4)	
Course Number	Course Title					
STME 5010	Molecular Cell Biology I	R	M			
STME 5240	Molecular Cell Biology II	R	M			
STME 5103	Scientific Writing		R, M, A	M, A	M, A	
STME 5510	Biostatistics & Computational Analysis		R, M			
STME 5020	Ethics in Biotechnology			M, A		

Kean University

STME 5410 - 5415	Biotechnology Internship/Externship	M, A	M, A	R	M, A	
STME 5400	Biotechnology Literature Review		M, A	R	M, A	
Common Electives						
STME 5310	Molecular Biology of Cancer	R	R, A	R		
STME 5140 / STME 5170	Cellular Techniques / Molecular Techniques	R, M, A	R, M, A	R	R	
STME 5370	Human Viral Diseases	I	R			
STME 5300	Advanced Cell Biology	R	R			
STME 5615	Chemical Instrumentation and Analytical techniques	R, M, A	R, M, A	R, A	R, A	
STME 5810	Mass Spectrometry in Drug Discovery and Development	R, M, A	R, M, A	R, A	R, A	
BIO 5120	Introduction to Bioinformatics	R, M	R, M		R	
BIO 5410	Neurobiology	I				

Kean University

BIO 5600	Basic Pharmacology	I	R, A			
CHEM 5150	Spectrometric Identification of Organic Compounds	I	R			
CHEM 5184	Introduction to Molecular Modeling and Its Applications	R	R		R	
CHEM 5284	Instrumentation Methods of Analysis	R	R			
CHEM 5285	Chemical Separations	R	R		R	
MATH 5630	Introduction to Computational Science I	I	R			