

Academic Assessment Report - AY 2013-2014

College, School/Department, Name of Program: NJCSTM M.S. Biotechnology

Program SLOs:

(List Program SLOs)

SLO1: (Applied Knowledge) Graduates will possess adequate analytical laboratory and research skills, demonstrate instrumentation operation and applicable software knowledge currently used in biotechnology and related disciplines (genetic engineering, analytical chemistry, bioinformatics, molecular & cellular biology) to enter the biotech or pharmaceutical industry. (KU 1, KU 2, KU 4)

SLO 2: (Holistic Knowledge) Graduates will be able to combine critical thinking skills and analytical knowledge to design, perform, and analyze scientific problems in the laboratory both as an individual and as effective and productive project team members, and know the origins of biotechnology and its importance to society. (KU 1, KU 2, KU 4)

SLO3: (Ethics) Graduates will have adequate knowledge of the bioethical standards of the science profession and be able to exercise ethical awareness.

SLO4: (Communication) Graduates will be able to verbally express themselves and communicate scientific comprehension and knowledge in both formal oral presentations and in written format clearly, concisely and accurately. (KU 1, KU 4)

Program Level Student Learning Outcomes <i>(Add rows for additional SLOs)</i>	Assessment Measure(s) <i>(Add rows if necessary)</i>	Assessment Criteria <i>(Describe how data is collected--rubric, survey, etc.)</i>	Results of Assessment <i>(Specific to Data Collected)</i>	Action Taken <i>(Closing the Loop: New action or follow up from last Assessment Report)</i>
SLO #1 (Applied Knowledge)	Direct Measure 1:	STME 5140 Lab Practical SWR (Scored With Rubric)		
	Direct Measure 2:	STME 5170/BIO5700 Lab Practical SWR		
	Direct Measure 3:	STME 5410-15 or STME 5400 paper and presentation SWR		
	Direct Measure 4:	STME 5615 Paper SWR		
	Direct Measure 5:	STME 5810 Paper SWR		
	Indirect Measure:	Graduating Student Survey		
SLO #2 (Holistic Knowledge)	Direct Measure 1:	STME 5103 Paper SWR		
	Direct Measure 2:	STME 5140 Lab Practical SWR		
	Direct Measure 3:	STME 5170/BIO5700 Lab Practical SWR		
	Direct Measure 4:	STME 5410-15 or STME 5400 paper and presentation SWR		

	Direct Measure 5:	STME 5615 Paper SWR		
	Direct Measure 6:	STME 5810 Paper SWR		
	Indirect Measure:	Graduating Student Survey		
SLO #3 (Ethics)	Direct Measure 1:	STME 5013 Reaction Paper to Kean Academic Integrity Policy SWR		
	Direct Measure 2:	STME 5020 Certificate of completion of NIH training course of human participants in research.		
	Indirect Measure:	Graduating Student Survey		
SLO #4 (Communication)	Direct Measure 1:	STME 5103 Paper SWR		
	Direct Measure 2:	STME 5410-15 or STME 5400 paper and presentation SWR		
	Direct Measure 3:	STME 5615 Paper SWR		
	Direct Measure 4:	STME 5810 Paper SWR		
	Indirect Measure:	Graduating Student Survey		

