

## Academic Assessment Report - AY 2012-2013 (FA12 + SP13)

College, School/Department, Name of Program: NJCSTM BS SCI & TECH / Engineering Science Option

***NOTE: this program option is “new” as only 1 freshmen AY 12/13 and 1 sophomore AY 12/13 Assessment criteria on chart to follow only pertinent to the 1 freshmen who has a cumulative GPA of 3.927, as other assessment criteria are for Juniors & Seniors.***

### **Program SLOs:**

*(List Program SLOs)*

SLO 1: (Applied Knowledge) Graduates will possess comprehensive theoretical and practical knowledge of engineering science and design principles necessary for admission into graduate study in engineering. (KU 1, KU2, KU3, KU4) (GE S3, S5, V5)

SLO 2: (Holistic Knowledge) Graduates will possess the ability to integrate mathematical modeling and computational tools to solve problems in a variety of engineering fields, and know the origins and importance of engineering in society. (KU 1, KU2, KU3, KU4) (GE S3, S5, V2, V4)

SLO 3: (Critical Thinking) Graduates will be able to combine critical thinking skills and practical knowledge to design, perform, and analyze engineering problems both as an individual and as effective and productive project team members. (KU1) (GE S3, S4)

SLO 4: (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. (GE S1, S2, S3, V4)

**\*note: 2011-2012 SLO # 1 split into applied and holistic knowledge for consistency with other NJCSTM programs. 2011-2012 SLO # 4 merged with 2012-2013 SLO # 2 as both are aspects of holistic knowledge.**

<b>Program Level Student Learning Outcomes</b> <i>(Add rows for additional SLOs)</i>	<b>Assessment Measure(s)</b> <i>(Add rows if necessary)</i>	<b>Assessment Criteria</b> <i>(Describe how data is collected--rubric, survey, etc.)</i>	<b>Results of Assessment</b> <i>(Specific to Data Collected)</i>	<b>Action Taken</b> <i>(Closing the Loop: New action or follow up from last Assessment Report)</i>
<b>SLO #1 (Applied Knowledge)</b>	Direct Measure 1:	STME 1603:Lab Practicum SWR (Scored With Rubric)	AY 12/13 one freshmen earned an A	No action needed
	Direct Measure 2:	STME 3610: Poster Presentation		
	Direct Measure 3:	STME 4610: Oral Presentation SWR		
	Indirect Measure:	Graduating Student Survey		
<b>SLO #2 (Holistic Knowledge)</b>	Direct Measure 1:	STME 1603:Lab Practicum SWR	AY 12/13 one freshmen earned an A	No action needed
	Direct Measure 2:	STME 3610: Poster Presentation SWR		
	Direct Measure 3:	STME 4610: Oral Presentation SWR		
	Indirect Measure:	Graduating Student Survey		
<b>SLO #3 (Critical Thinking)</b>	Direct Measure 1:	STME 1603:Lab Practicum SWR	AY 12/13 one freshmen earned an A	No action needed
	Direct Measure 2:	STME 3610: Poster Presentation SWR		

	Direct Measure 3:	STME 4610: Oral Presentation SWR		
	Indirect Measure:	Graduating Student Survey		
<b>SLO #4 (Communication)</b>	Direct Measure 1:	STME 1603:Lab Practicum SWR	AY 12/13 one freshmen earned an A	No action needed
	Direct Measure 2:	GE 2024: Paper + presentation SWR	AY 12/13 one freshmen earned an A minus	No action needed
	Direct Measure 3:	STME 3610: Poster Presentation SWR		
	Direct Measure 4:	STME 4610: Oral Presentation SWR		
	Indirect Measure:	Graduating Student Survey		