B.S. Science & Technology / Biomedicine Option Program Statements

The vision of the B.S. Science & Technology / Biomedicine program offered by the NJ Center for Science, Technology & Mathematics (NJCSTM) is to prepare young scientists to pursue post graduate education in the fields of medicine (allopathetic and osteopathic), physical therapy and related fields. The mission of this program is to provide an advanced practical and research project based curriculum through an integrated core curriculum of science and mathematics, including all prerequisite requirements for post graduate medical education programs, as a foundation to advanced coursework in bioscience and biomedicine. NJCSTM has a driving goal for this program to continue to establish collaborations with biomedical, medical/health science and pharmaceutical partners to enhance Kean’s and NJCSTM contributions to the scientific medical research community.

B.S. Sci & Tech / Biomedicine Student Learning Outcomes (SLOs)

For the Student Earning a B.S. Degree in the Biomedicine Option

It is our expectation that graduates from the NJCSTM will have these characteristics:

- SLO1: Graduates will possess comprehensive theoretical and practical knowledge of the integrated science and mathematical fields necessary for admission to medical or graduate school should they choose to further their education.

- SLO2: Graduates will be versatile and resourceful scientists who can adjust to this ever-changing field because of their comprehensive, integrated knowledge of mathematics applied to the physical, biological and chemical sciences.

- SLO3: Graduates will be able to combine critical thinking skills and analytical knowledge to design, perform, and analyze scientific or medical research both as an individual and as effective and productive project team members.

- SLO4: Graduates will have conversational knowledge of their selected foreign language of study and be able to exercise this language knowledge and demonstrate sociocultural and bioethical awareness.

- SLO5: 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.

- SLO6: Graduates will know the origins of modern day bioscience and biomedical theory and application and its importance to society.