INTSC 733: Integrated Science

2 Credits/Maximum of 2

As medical education and practice evolves, students and physicians must be able to recognize and apply basic science concepts to solve complex medical problems, providing safe and effective patient care and prevention of harmful outcomes. The integration of medical sciences (basic, clinical, systems science) with a humanistic approach in their medical decision making is a life-long skill for the future physician. As students approach integrated critical thinking regarding medical problems, they must also consider humanistic integration. The integrated science course will provide students with an interactive opportunity to discuss basic sciences and humanities with relevance to clinical medical practice. The overall objective of the course is for students to formulate critical thinking skills through the application of medical sciences for clinical problem solving. The course objectives include:

- Evaluate complex clinical problems using an integrated, multi-system approach by using basic, systems and clinical science knowledge
- Explain the importance of basic sciences in the pathophysiology, diagnosis, prevention, and treatment of disease, as well as the general approach to clinical patient care
- Use scientific and medical literature as evidence based rationale for advanced problem solving
- Formulate problem solving strategy and apply critical thinking in a team oriented setting
- Evaluate and reflect upon humanistic care and the relevance of humanities during clinical experiences and patient encounters.

This longitudinal course will be offered during Phase II* and provide a humanities thread within Phase II curriculum. Assessment will be Pass/Fail and determined by performance on session quizzes and student derived case creations. This course will be offered once each year and all students in Phase II will be enrolled.