A. Course Description

Credits: 6

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: None

Aspects of anatomy, physiology, and pathophysiology that are relevant to the science and practice of anesthesia are presented. Topics include cell physiology, the nervous system, and the cardiovascular system Competence Statement: Knows the fundamental physiology and pathophysiology of cell physiology, the nervous system, and the cardiovascular system

B. Course Effective Dates: 01/14/2019 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Describe the structure of the cell and cell membrane and mechanisms for transport of substances across the cell membrane.
2. Describe the anatomy and functions of the neuron, skeletal muscle, and smooth muscle.
3. Describe the anatomy and functions of the different divisions of the nervous system; describe the pathophysiology of select nervous system disorders.
4. Describe the anatomy and normal physiological function of the heart.
5. Describe the components of the systemic circulation and their normal functions.
6. Describe the pathophysiology of select cardiac and vascular diseases.

E. Learning Outcomes (MN Transfer Curriculum)

This contains no goal areas.

G. Special Information

Restrictions: Admission into the Minneapolis School of Anesthesia program.