OBJECTIVES: NEUROSCIENCE, Year I

Upon completion of the Neuroscience course, students will be able to:

ALTRUISM
- Demonstrate the ability to deal with patients in a dignified and compassionate way (Clinical Correlations).
- Appreciate the social consequences of neurological disease and the importance of appropriate treatment, through Clinical Correlations, Neurological Case Studies, and some lectures and small group discussions.
- Demonstrate honesty and integrity in all professional interactions, including: (1) respectful interactions with faculty and other students in lectures, laboratories, small groups and clinical correlations; (2) taking examinations; (3) participating responsibly in the school's Honor Code.

KNOWLEDGE
- Demonstrate a basic understanding of the pertinent molecular, cellular, and physiological mechanisms and the circuits that are important in the nervous system's contribution to body homeostasis (Lectures; Clinical Correlations; Small Groups).
- Demonstrate a basic understanding of the etiology and pathophysiology of selected neurological diseases (Lectures; Clinical Correlations; Neurological Case Studies; Small Discussion Groups).
- Demonstrate an understanding of the power of the scientific method in establishing the causation of disease and efficacy of traditional and non-traditional therapies (Lectures; Clinical Correlations; Neurological Case Studies; Small Discussion Groups).
- Demonstrate an appreciation of the need to engage in lifelong learning to stay abreast of relevant scientific advances in the Neurosciences and related disciplines (Lectures; Clinical Correlations; Case Studies; Small Discussion Groups).
- Recognize the importance of genomics and bioinformatics applications in Neurosciences research and clinical medicine (Lectures; Small Discussion Groups).
- Demonstrate an understanding of the scientific principles of physiology and anatomy that are relevant to the nervous system, and to research and diagnostic methodologies (Lectures; Clinical Correlations; Neurological Case Studies; Small Discussion Groups; Laboratories).
- Demonstrate an introductory understanding of the pertinent aspects of a focused medical history related to neurological disease (Clinical Correlations; Neurological Case Studies).
- Demonstrate a basic understanding of clinical signs and symptoms of neurological disease (Lectures; Clinical Correlations; Neurological Case Studies; Small Discussion Groups).
- Demonstrate a basic understanding of some diagnostic procedures (Lectures; Clinical Correlations; Neurological Case Studies; Small Discussion Groups).
• Demonstrate a basic understanding of the kinds of clinical information useful in differential diagnosis of some neurological diseases (Lectures; Clinical Correlations; Neurological Case Studies; Small Discussion Groups).

SKILLS
• Demonstrate the ability to evaluate and solve problems in basic and clinical Neuroscience by applying the knowledge they obtain through lectures, readings and small groups (Clinical Correlations; Neurological Case Studies; Small Discussion Groups; Exams).
• Demonstrate an elemental understanding of clinical management strategies (Clinical Correlations; Neurological Case Studies; Small Discussion Groups; Exams).
• Demonstrate the ability to communicate effectively in small group interactions with peers and faculty (Laboratories, Small Discussion Groups, Neurological Case Studies).

DUTIFUL
• Demonstrate an introductory understanding of selected neurological diseases, their epidemiology, and the factors that place individuals at risk for them (Lectures; Clinical Correlations; Neurological Case Studies; Small Discussion Groups).
• Demonstrate the ability to access and utilize bioinformatic material through the utilization of MedScope as well as internet links to useful databases and websites in the preparation of Clinical Conference presentations (Lectures; Clinical Correlations; Small Group Discussions).