Course Prefix and Number: PSG 298  
Credits: 1

Course Title: Seminar and Project: Sleep Technology Theory and Practice Integration

Course Description: Provides students the opportunity to review and integrate the learning outcomes of the sleep technology curriculum. Prerequisites: PSG 101, PSG 190, and PSG 110. Prerequisites or Co-requisites: PSG 103, PSG 164, PSG 205, PSG 220, PSG 207, and PSG 296. Lecture 1 hour per week.

General Course Purpose: This course, a requirement for the Sleep Technology for Polysomnography Certificate program, enables students to apply the knowledge they have acquired throughout the curriculum and to encapsulate all the learning objectives in the program.

Course Prerequisites and Co-requisites:
Prerequisites: PSG 101, PSG 190, and PSG 110
Prerequisites or Co-requisites: PSG 103, PSG 164, PSG 205, PSG 220, PSG 207, PSG 296

Course Objectives:
Upon completing the course, the student will be able to:
Demonstrate knowledge of the core competencies required for polysomnographic technologists as listed in the major topics below.

Major Topics to Be Included:
- a. Computational mathematics
- b. Medical law
- c. Emergency preparedness in a medical setting
- d. Infection control
- e. Medical terminology
- f. History of sleep medicine
- g. Anatomy and physiology relevant to sleep and sleep disorders
- h. Normal and abnormal physiology and behavior of sleep
- i. Classification, diagnosis, and treatment of sleep disorders
- j. Clinical evaluation of sleep and wakefulness
- k. Application and management of positive airway pressure modalities for treatment of sleep related breathing disorders
- l. Medication effects related to sleep and sleep disorders
- m. Basic principles of biopotential recording and digital data acquisition
- n. Basic principles of monitoring of breathing
- o. Ethics and professionalism in sleep medicine
- p. Polysomnographic methodology
- q. Procedural protocols
- r. Data analysis

Effective Date of Course Content Summary: March 22, 2012