Course Prefix and Number: PSG 295

Course Title: Sleep Technology Theory and Practice Integration

Course Description:
Provides students the opportunity to review and integrate the learning outcomes of the polysomnography technology curriculum. Prerequisites: PSG 101, PSG 110 Introduction to the Science of Sleep Medicine, and PSG 190. Prerequisites or co-requisites: PSG 103, PSG 164, and PSG 205 Anatomy, Physiology, and Advanced Principles of Sleep. Lecture 1 hour per week.

General Course Purpose:
This course, a requirement for the Sleep Technology for Polysomnography Career Studies 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/Co-requisites:
Prerequisites: PSG 101, PSG 110 Introduction to the Science of Sleep Medicine, and PSG 190, Prerequisites or co-requisites: PSG 103, PSG 164, PSG 205 Anatomy, Physiology, and Advanced Principles of Sleep

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:
1. Computational mathematics
2. Medical law
3. Emergency preparedness in a medical setting
4. Infection control
5. Medical terminology
6. History of sleep medicine
7. Anatomy and physiology relevant to sleep and sleep disorders
8. Normal and abnormal physiology and behavior of sleep
9. Classification, diagnosis, and treatment of sleep disorders
10. Clinical evaluation of sleep and wakefulness
11. Application and management of positive airway pressure modalities for treatment of sleep related breathing disorders
12. Medication effects related to sleep and sleep disorders
13. Basic principles of biopotential recording and digital data acquisition
14. Basic principles of monitoring of breathing
15. Ethics and professionalism in sleep medicine
16. Polysomnographic methodology
17. Procedural protocols
18. Data analysis

Effective Date of Course Content Summary: March 22, 2012