Course Prefix and Number: PSG 101      Credits: 3

Course Title: Polysomnography I

Course Description (including lecture hours, lab hours, total contacts)
Surveys the dynamics of normal and abnormal human sleep and the practice of sleep diagnosis and treatment. Studies methods of acquisition, diagnosis, and treatment of sleep disorders. Includes the practice in the use of polysomnographic equipment. Familiarizes students with medical terminology, instrumentation setup and calibration, recording and monitoring techniques, documentation, professional issues, and patient-technologist interactions related to polysomnographic technology. Co-requisite: PSG 190. Lecture 3 hours per week.

General Course Purpose
This purpose of this course is to provide the theoretical knowledge and fundamental skill of sleep medicine required of beginning students prior to entering the clinical environment.

Course Prerequisites/Corequisites (Entry-level competencies required for enrollment)
Corequisite: PSG 190

Course Objectives (Each item should complete the following sentence.)

Upon completing the course, the student will be able to:

a. Describe and discuss the basic foundational skills required in the clinical environment and
b. Describe and discuss the diagnosis and treatment of sleep disorders

Major Topics to be Included

a. Orientation of the patient
b. Documentation of testing procedure
c. Standard electrode placement
d. 10-20 System of electrode placement
e. Fundamentals of Electroencephalogram
f. Polysomnography recording systems
g. Recording biopotentials
h. Calibrating and setting up machinery
i. Checking electrode impedance and signal quality
j. Troubleshooting techniques
k. Biocalibrations
l. Sleep Disorders and their diagnosis
m. Assessment for special needs
n. MSLT and MWT
o. Positive airway pressure therapy
p. Professionalism

Effective Date of Course Content Summary (Month, Date Year): August 2010