Course Prefix and Number: PSG 103  
Credits: 3

Course Title: Polysomnography Record Evaluation

Course Description (including lecture hours, lab hours, total contacts)
Presents the general principles of analyzing and scoring polysomnographic records. Studies sleep staging, recognition and analysis of various abnormal respiratory and neurophysiologic events, and recognition and elimination of artifact. Includes scoring and analyzing raw data for the purpose of generating full reports. Prerequisites: PSG 101, PSG 190, and PSG 195 (Introduction to Sleep). Co-requisite: PSG 164. Lecture 3 hours per week.

General Course Purpose
The purpose of this course is to provide the fundamental skills and theory required of students entering the clinical environment.

Course Prerequisites/Corequisites
Prerequisites: PSG 101, PSG 190, PSG 195  
Co-requisite: PSG 164

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

Upon completing the course, the student will be able to:
  a. Describe and identify recording parameters needed to stage sleep
  b. Describe and discuss the characteristic polysomnographic features of each sleep stage.
  c. Describe the purpose of a sleep study report
  d. Define and be able to tabulate common sleep architecture parameters
  e. Define and be able to tabulate common event parameters
  f. Understand and discuss recording quality and artifact; and
  g. Understand and summarize the AASM rules for scoring

Major Topics to be Included

  a. Sleep stages
  b. Arousals
  c. Sleep stage distribution
  d. Data analysis
  e. Common sleep architectural definitions and formulae
  f. Abnormal event definitions and formulas
  g. Histograms
  h. Artifact
  i. Signal derivations
  j. System referencing
  k. Use of filters
  l. Respiratory event definitions
  m. Respiratory event scoring

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