

**J. Sargeant Reynolds Community College  
Course Content Summary**

**Course Prefix and Number: PSG 295**

**Credits: 1**

**Course Title:** Sleep Registry Review

**Course Description (including lecture hours, lab hours, total contacts)**

Incorporates previous course instruction in the discipline and provides students with a review of the content areas on the national certification credentialing exam. Lecture 1 hour per week.

**General Course Purpose**

Facilitates development of critical thinking skills necessary to pass the national registry exam given by the Board of Registered Polysomnography Technologists.

**Course Prerequisites/Corequisites** (*Entry-level competencies required for enrollment*)

None

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

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

- a. Demonstrate the theoretical and conceptual knowledge necessary to pass the national registry exam and
- b. Demonstrate the critical thinking skills necessary to pass the national registry exam.

**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
- q. Sleep stages
- r. Arousals
- s. Data analysis
- t. Common sleep architectural definitions and formulae
- u. Abnormal event definitions and formulas
- v. Histograms
- w. Artifact
- x. Signal derivations
- y. System referencing

- z. Use of filters
- aa. Respiratory event definitions
- bb. Respiratory event scoring
- cc. Anatomy of the respiratory system
- dd. Circulatory system
- ee. Oxygen and carbon dioxide transport
- ff. Control of ventilation
- gg. Pediatric sleep disorders

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