

Collin College - Continuing Education

Course Syllabus

Course Title: Polysomnography I

Course Number: PSGT 1000

Instructor: Amber Allen, BA, AAS, RPSGT, RST, CCSH

Office Hours: Appointment Only

Email: amberallen@collin.edu

Course Description: Introduction to polysomnographic technology. Includes terminology, instrumentation, patient safety, infection control, recording and monitoring techniques, documentation, professional issues, and patient-technologist interactions.

Hours: 64

Student Learning Outcomes: Upon successful completion of this course, students will be able to:

1. Identify patient safety and infection control procedures.
2. Discuss professional issues related to patient-technologist interactions.
3. Utilize proper terminology.
4. Describe applications of sleep history data.
5. Demonstrate proper procedures for initiating, monitoring, ending, and processing a sleep study.
6. Discuss the history of sleep medicine.
7. Describe the role of the technologist.
8. Define stages of normal sleep.

Withdrawal Policy: Please visit the Collin College website or student handbook to review withdrawal and tuition refund policies.

Collin College Academic Policies: See the current *Collin Student Handbook*.

Americans with Disabilities Act: Collin College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student's responsibility to contact the ACCESS office, located in B336 at the McKinney Campus, or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.

Meeting Location: Canvas

Attendance Policy: Students should expect to spend an average of 6-12 hours weekly to complete basic course requirements. Students must complete all assignments, including

exams, as scheduled. Missed assignments result in a grade of zero. Students are expected to monitor Canvas email and announcements several times weekly. If you experience personal computer or email problems, you are expected to find another computer to use. In other words, personal computer or email problems are no excuse for failing to communicate or submit course work.

Session Plan – Each class session will consist of lecture and testing activities.

Week	Quiz/Exam	Modules
1	Quiz 1 Quiz 2	<p>Module 1:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Polysomnography Terminology <input type="checkbox"/> History of Sleep Medicine and Polysomnographic Technology <input type="checkbox"/> Modern Sleep Medicine <input type="checkbox"/> Professional Organizations and Credentialing Agencies <p>Module 2:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Human Sleep <input type="checkbox"/> Classification of Sleep Disorders <input type="checkbox"/> Sleep Deprivation
2	Quiz 3 Quiz 4	<p>Module 3:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Electronics and Electricity <input type="checkbox"/> Frequency, Voltage, and Morphology of Signals <p>Module 4:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Bioelectric Signals of Interest in Sleep Medicine <input type="checkbox"/> Recording of Physiological Parameters and Electrical Safety
3	Quiz 5 Quiz 6	<p>Module 5:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Data Acquisition Systems <input type="checkbox"/> Sensors, Transducers, and Ancillary Equipment <p>Module 6:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Approach to the Patient with Disordered Sleep <input type="checkbox"/> Physical Examination in Sleep Medicine
4	Quiz 7 Quiz 8	<p>Module 7:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Use of Clinical Tools and Tests in Sleep Medicine <input type="checkbox"/> The PSG: Prestudy, Monitoring, and Poststudy <p>Module 8:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Recognizing, Evaluating, and Minimizing Recording Artifacts <input type="checkbox"/> Neuroanatomy & Physiology Basics
5	Quiz 9 Quiz 10	<p>Module 9:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The Cardiopulmonary System <input type="checkbox"/> Noninvasive Monitoring of Gas Exchange During Testing <p>Module 10:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Diagnosis, Treatment, and Outcome Management of Sleep-Disordered Breathing

		<input type="checkbox"/> Snoring and Pathologic Upper Airway Resistance Syndromes
6	Quiz 11 Quiz 12	Module 11: <ul style="list-style-type: none"> <input type="checkbox"/> OSA: Phenotypes and Genetics <input type="checkbox"/> OSA: Clinical Features, Evaluation, and Principles of Management Module 12: <ul style="list-style-type: none"> <input type="checkbox"/> PAP Treatment for OSA <input type="checkbox"/> Performing a CPAP Titration
7	Quiz 13 Quiz 14	Module 13: <ul style="list-style-type: none"> <input type="checkbox"/> Report Generation <input type="checkbox"/> Professionalism in the Sleep Lab <input type="checkbox"/> Sleep Lab Policies and Procedures Module 14: <ul style="list-style-type: none"> <input type="checkbox"/> Legal and Ethical Considerations <input type="checkbox"/> Patient and Employee Safety
8		Comprehensive Final Exam

*****Please carefully read the grading information below. No exceptions will be made. *****

Methods of Evaluation: Students must achieve a minimum score of 75% in each course section.

Grading Rubric:

Item	**Minimum score needed per section**
Quizzes	Average of 75% and Above
Final Exam	Average of 75% and Above

Only students meeting the minimum grading rubric requirements are eligible to receive a certificate of completion.

Computer Skills Needed: You should know how to access a website when given an address (URL) or link, use features of your web browser, download files, attach files to emails, and use MS Word processing software.