**Date:** 1/14/2016 **Name of Administrative or Educational Support Unit:** Polysomnographic Technology

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**Mission:**

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| The goal of the Polysomnographic Technology Program at Collin College is preparing students in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains in order to provide knowledgeable, skilled, and effective entry-level polysomnographic technologists to the sleep medicine community. |

**PART I: Might not change from year to year. If this is an academic or workforce program, you must have 3-4 long-term student learning outcomes. You may also add short-term administrative, technological, assessment, resource or professional development goals, as needed.**

| A. Outcomes(s)  Results expected in this department/program | B. Measure(s)  The instrument or process used to measure results | C. Target(s) The level of success expected |
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| Given the physician’s orders for the sleep study, the student will be able to select the appropriate polysomnography equipment and montage, collect and review all paperwork, accurately apply sensors, and educate the patient about his/her sleep disorder and the study being performed. (Domain I: Study Performance/Instrumentation) | 1. Capstone clinical simulation and Registered Polysomnographic Technologist (RPSGT) practice examination 2. Registered Polysomnographic Technologist (RPSGT) and Registered Sleep Technologist (RST) exam results for each graduating class 3. Results of Graduate and Employer Questionnaires | 1. Meet or exceed the program pass rate of 75% 2. Meet or exceed the national threshold of 65% or greater pass rate 3. Graduates will rate their competency as very good or excellent. Employers will rate the graduates as very good or excellent. |
| Given sleep study parameters, the student will be able to calibrate the appropriate polysomnography equipment, regularly document necessary data during testing, identify and respond to data issues, and identify and respond to patient needs. (Domain I: Study Performance/Instrumentation) | 1. Capstone clinical simulation and Registered Polysomnographic Technologist (RPSGT) practice examination 2. Registered Polysomnographic Technologist (RPSGT) and Registered Sleep Technologist (RST) exam results for each graduating class 3. Results of Graduate and Employer Questionnaires | 1. Meet or exceed the program pass rate of 75% 2. Meet or exceed the national threshold of 65% or greater pass rate 3. Graduates will rate their competency as very good or excellent. Employers will rate the graduates as very good or excellent. |
| Given a patient’s sleep study data, the student will be able to assess the patient need for treatment and intervention of the sleep disorder, perform PAP titrations and oxygen administration when needed, and troubleshoot during sleep studies. (Domain III: Perform Therapeutic Treatment and Intervention and Domain IV: Therapy Adherence and Management) | 1. Capstone clinical simulation and Registered Polysomnographic Technologist (RPSGT) practice examination 2. Registered Polysomnographic Technologist (RPSGT) and Registered Sleep Technologist (RST) exam results for each graduating class 3. Results of Graduate and Employer Questionnaires | 1. Meet or exceed the program pass rate of 75% 2. Meet or exceed the national threshold of 65% or greater pass rate 3. Graduates will rate their competency as very good or excellent. Employers will rate the graduates as very good or excellent. |
| Given the task of completing post-sleep study procedures, the student will be able to remove, clean, and disinfect sensors and interfaces, perform patient discharge procedures, and summarize and store study data. (Domain I: Study Performance/Instrumentation) | 1. Capstone clinical simulation and Registered Polysomnographic Technologist (RPSGT) practice examination 2. Registered Polysomnographic Technologist (RPSGT) and Registered Sleep Technologist (RST) exam results for each graduating class 3. Results of Graduate and Employer Questionnaires | 1. Meet or exceed the program pass rate of 75% 2. Meet or exceed the national threshold of 65% or greater pass rate 3. Graduates will rate their competency as very good or excellent. Employers will rate the graduates as very good or excellent. |
| Given the scenario of analyzing sleep study data, the student will be able to stage sleep and mark arousals from sleep, score respiratory events, movements, and cardiac events, identify waveform variations and artifact, generate sleep study reports and archive data. (Domain II: Scoring and Data Processing) | 1. Capstone clinical simulation and Registered Polysomnographic Technologist (RPSGT) practice examination 2. Registered Polysomnographic Technologist (RPSGT) and Registered Sleep Technologist (RST) exam results for each graduating class 3. Results of Graduate and Employer Questionnaires | 1. Meet or exceed the program pass rate of 75% 2. Meet or exceed the national threshold of 65% or greater pass rate 3. Graduates will rate their competency as very good or excellent. Employers will rate the graduates as very good or excellent. |

**PART II: For academic year** 2015-2016 **(enter year i.e. 2011-12)**

**From Part I**

| A. Outcomes(s)  Results expected in this department/program | D. Action Plan Years 5 & 2  Based on analysis of previous assessment, create an action plan and include it here in the row of the outcomes(s) it addresses. | E. Implement Action Plan  Years 1 & 3  Implement the action plan and collect data | F. Data Results Summary  Years 2 & 4  Summarize the data collected | G. Findings  Years 2 & 4  What does data say about outcome? |
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| Given the physician’s orders for the sleep study, the student will be able to select the appropriate polysomnography equipment and montage, collect and review all paperwork, accurately apply sensors, and educate the patient about his/her sleep disorder and the study being performed. (Domain I: Study Performance/Instrumentation) |  |  | 1. Met benchmark of 75% or higher on the capstone exam. 2. Overall, the Class of 2014 had a 90% pass rate on the RPSGT exam, which is above the CAAHEP accreditation benchmark of 65%. Domain I Score = 3.75. 3. Graduates and employers gave good or excellent ratings. | Domain I was the highest scoring domain for the Class of 2014. |
| Given sleep study parameters, the student will be able to calibrate the appropriate polysomnography equipment, regularly document necessary data during testing, identify and respond to data issues, and identify and respond to patient needs. (Domain I: Study Performance/Instrumentation) |  |  | 1. Met benchmark of 75% or higher on the capstone exam. 2. Overall, the Class of 2014 had a 90% pass rate on the RPSGT exam, which is above the CAAHEP accreditation benchmark of 65%. Domain I Score = 3.75. 3. Graduates and employers gave good or excellent ratings. | Domain I was the highest scoring domain for the Class of 2014. |
| Given a patient’s sleep study data, the student will be able to assess the patient need for treatment and intervention of the sleep disorder, perform PAP titrations and oxygen administration when needed, and troubleshoot during sleep studies. (Domain III: Perform Therapeutic Treatment and Intervention and Domain IV: Therapy Adherence and Management) |  |  | 1. Met benchmark of 75% or higher on the capstone exam. 2. Overall, the Class of 2014 had a 90% pass rate on the RPSGT exam, which is above the CAAHEP accreditation benchmark of 65%. Domain III Score = 2.88. Domain IV Score = 2.75. 3. Graduates and employers gave good or excellent ratings. | Domains III and IV were the middle scoring domains for the Class of 2014. |
| Given the task of completing post-sleep study procedures, the student will be able to remove, clean, and disinfect sensors and interfaces, perform patient discharge procedures, and summarize and store study data. (Domain I: Study Performance/Instrumentation) |  |  | 1. Met benchmark of 75% or higher on the capstone exam. 2. Overall, the Class of 2014 had a 90% pass rate on the RPSGT exam, which is above the CAAHEP accreditation benchmark of 65%. Domain I Score = 3.75. 3. Graduates and employers gave good or excellent ratings. | Domain I was the highest scoring domain for the Class of 2014. |
| Given the scenario of analyzing sleep study data, the student will be able to stage sleep and mark arousals from sleep, score respiratory events, movements, and cardiac events, identify waveform variations and artifact, generate sleep study reports and archive data. (Domain II: Scoring and Data Processing) | Starting in Spring 2016, the following changes will take place:   1. Increase lab time for PSGT 2205 (Sleep Scoring and Staging) from 3 hours to 4 hours. 2. Increase number of sleep scoring software licenses to allow more individual scoring opportunities as opposed to working in teams to score because there were not enough software licenses for every student. 3. Increase number of sleep studies scored per week from 1 study per week to 2 studies per week. |  | 1. Met benchmark of 75% or higher on the capstone exam. 2. Overall, the Class of 2014 had a 90% pass rate on the RPSGT exam, which is above the CAAHEP accreditation benchmark of 65%. Domain II Score = 2.65 3. Graduates and employers gave good or excellent ratings. | Domain II was the lowest scoring domain for the Class of 2014 and is the area most in need of improvement. |