Course Objectives/Course Outline Spokane Community College

Course Title: Advanced Pulmonary Diagnostics Clinical Prefix and Course Number: RT 423

Course Learning Outcomes:

By the end of this course, a student should be able to:

The student will observe/assist the technologist(s) with the following:

- A. Cardiopulmonary Exercise Study (CPX, VO2)
- B. Bronchoscopy
- C. Mehtacholine Challenge
- D. Arterial puncture (May be signed off in ICU)
- E. Polysomnographic Sleep Study
- F. Complete PFT (Pre/Post spirometry, DLCO, VTG)
- G. Exercise oximetry (May be performed on the floors)
- H. Flow sensor/plethysmograph calibration

Course Outline:

- I. Electronic medical record training on EPIC
 - A. Sign on with user number and password
 - B. Navigate the patient chart for orders and other information
 - C. Demonstrate correct use of system on daily clinical rotations
- II. Orientation to facility to include tour, with log in sheets, and timelines for notebook reviews
- III. Participating in scheduling daily assignments
- IV. Completion of all observation objectives
 - A. Complete PFT
 - B. Bronchopulmonary challenge (Methacholine)
 - C. Bronchoscopy
 - D. Cardiopulmonary exercise study
 - E. Polysomnographic sleep study
- V. Completion of all performance objectives
- A. Complete PFT
- B. Bronchopulmonary challenge (Methacholine)
- C. Bronchoscopy
- D. Cardiopulmonary exercise study
- E. Polysomnographic sleep study
- VI. Completion of, daily logs, physician interactions, preceptor evaluations and additional options leading to final grade