

Course Objectives/Course Outline
Spokane Community College

Course Title: Advanced Pulmonary Diagnostics Technical Skills Lab

Prefix and Course Number: RT 413

Course Learning Outcomes:

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

- Perform a complete PFT including the following:
 - Calibration(s)
 - Three flow/volume loops that meet ATS criteria
 - DLCO
 - Plethysmography (VTG) determination
- Assist in performing a cardiopulmonary exercise test using the Vmax 229 system in the SCC laboratory
- Perform airway resistance measurement using the plethysmograph(s) in the SCC laboratory
- Perform simulated bronchial provocation challenge testing using the Vmax system in the SCC laboratory
- Perform bronchoscopy and bronchoscopy assisting using the mannequin simulator and the bronchoscopy equipment in the SCC laboratory.
- (Optional) Perform an early morning post-absorption indirect calorimetry study on one of your classmates

Course Outline:

- I. Complete PFT
- II. MIP/MEP determination
- III. RAW determination
- IV. Simulation of bronchial provocation
- V. Bronchoscopy assisting lab
- VI. CPX testing lab