

Polysomnography (POLY)

POLY 1100 Beginning Polysomnography

2 Credits

Prerequisite: admission to Polysomnography program, a grade of "C" or better in HLTH 1215.

An overview of the field of Polysomnography including job responsibilities, credentialing, medical ethics, and patient confidentiality. Review of normal sleep and abnormal sleep disorders, integrating the physiological functions of the nervous, respiratory, and cardiovascular system. An emphasis is placed on an overview of basic sleep sciences, physiology, patient monitoring, electrical safety, and various sleep disorder treatments.

(2 contact hours)

POLY 1150 Cardiopulmonary and Sleep Disorder

2 Credits

Prerequisite: Admission to the Polysomnography program, HLTH 1215 (can be taken concurrently).

This introductory course covers the physiology of the cardiovascular and pulmonary systems with emphasis on electrophysiology of the heart, electrocardiology interpretation, blood flow characteristics and hemodynamics. An overview of pulmonary systems with an emphasis on lung volumes, dynamics of ventilation, diffusion, gas transport, oxygenation studies, and control of ventilation is included. Sleep physiology will be reviewed, as well as how cardiopulmonary disease impacts sleep physiology.

(2 contact hours)

POLY 1200 Intermediate Polysomnography

4 Credits

Prerequisite: POLY 1100.

This course discusses recording montages for acquisition of Polysomnographic studies and intervention procedures. Students will apply fundamental procedures to simulated case studies and practice them in the laboratory and clinical facilities under the supervision of a registered polysomnographic technologist.

(16 contact hours: 2 lecture, 2 lab, 12 clinical)

POLY 1300 Advanced Polysomnography

4 Credits

Prerequisite: POLY 1100, POLY 1200.

This advanced course covers the presentation and discussion of cognitive and psychomotor practices related to interpretation and scoring of the polysomnogram (PSG) for adult and pediatric patients. Students will score acquisitions, apply continuous positive airway pressure (CPAP) and bilevel positive airway pressures (BiPAP) equipment, and focus on artifact and troubleshooting of sleep montages in the clinical setting. The students will also practice Multiple Sleep Latency Testing (MSLT) and Maintenance of Wakefulness Testing (MWT) in the clinical setting.

(16 contact hours: 2 lecture, 2 lab, 12 clinical)