

# Biopac Student Lab



**BIOPAC Part No. MANBSL4**  
Student/Bookstore Version

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Welcome!	Overview of the BSL system and support options
Tutorial	Basic Tutorial
Lesson 1	Electromyography (EMG) I <i>Standard &amp; Integrated EMG</i>
Lesson 2	Electromyography (EMG) II <i>Motor Unit Recruitment &amp; Fatigue</i>
Lesson 3	Electroencephalography (EEG) I <i>Relaxation &amp; Brain Rhythms</i>
Lesson 4	Electroencephalography (EEG) II <i>Alpha Rhythms in the Occipital Lobe</i>
Lesson 5	Electrocardiography (ECG) I <i>Components of the ECG</i>
Lesson 6	Electrocardiography (ECG) II <i>Bipolar Leads (Leads I, II, III), Einthoven's Law, Mean Electrical Axis on the Frontal Plane</i>
Lesson 7	ECG & Pulse <i>Mechanical Action of the Heart, Peripheral Pressure Pulse, Plethysmography</i>
Lesson 8	Respiratory Cycle I <i>Respiratory Rates, Relative Depths of Breathing, Regulation of Ventilation</i>
Lesson 9	EDA & Polygraph <i>Electrodermal Activity &amp; the Polygraph</i>
Lesson 10	Electrooculogram (EOG) I <i>Eye Movement; Saccades &amp; Fixation During Reading</i>
Lesson 11	Reaction Time I <i>Reaction Time &amp; Learning with Fixed-interval and Pseudo-random Presentation Trials</i>
Lesson 12	Pulmonary Function I <i>Volumes &amp; Capacities</i>
Lesson 13	Pulmonary Function II <i>Pulmonary Flow Rates (FEV<sub>1,2,3</sub> and MVV)</i>
Lesson 14	Biofeedback <i>Relaxation &amp; Arousal</i>
Lesson 15	Aerobic Exercise Physiology <i>Cardiovascular &amp; Respiratory Adjustments During and After Exercise</i>
Lesson 16	Blood Pressure <i>Indirect BP Measurement, Ventricular Systole &amp; Diastole, Korotkoff sounds, Mean Arterial Pressure</i>
Lesson 17	Heart Sounds <i>Cardiac valve functions, Electrical &amp; Mechanical Events</i>
Lesson 20	Spinal Cord Reflexes <i>Latent periods &amp; reaction times; Contractile force vs. stimulus strength; Jendrassik maneuver influence; Voluntary vs. involuntary activation of skeletal muscle</i>