



HUMAN PERFORMANCE LAB

CAPABILITIES

Research and clinical grade fitness and physiological assessments and sport specific evaluations.

- Teaching spaces
- Physiology of exercise laboratory
- Fitness and body composition laboratory,
- Neuromotor laboratory
- Equipment room
- Six student data analysis workstations
- Changing room with lockers.

The Physiology of Exercise Laboratory is equipped for measurement of cardiovascular health, pulmonary function, human bioenergetics, resting metabolic rate, aerobic and anaerobic power.

The Fitness and Body Composition Laboratory has equipment and teaching space used to promote a healthy and active lifespan.

EQUIPMENT

The Physiology of Exercise Laboratory

- Medgraphics CPX
- Ultima Gas Exchange System
- AEI MAX II Metabolic Gas Exchange System
- Medgraphics VO2000 portable metabolic system
- Trackmaster treadmill
- Thorotread treadmill
- Zephyr Bioharness Biofeedback System for 16 users
- Quinton ECG System
- Midmark IQmark Digital ECG
- Midmark IQmark Digital Spirometer
- Velotron Cycle Ergometer
- Two Lode Stress Testing Cycle Ergometers
- Monark Peak Bike
- Phillips AED, pulse oximetry
- CardioChek Blood Test System
- Sample freezers, and centrifuges
- Wall mounted 42-inch LCD monitor for displaying real time data collection
- In-ceiling mounted projector and speakers for presentations.

The Fitness and Body Composition Laboratory

- Dual Energy X-ray Absorptiometry (DEXA)
- Skinfold calipers
- Bioimpedance scales
- Anthropometry kit
- Biodex System 4 isokinetic dynamometer
- Monark cycle ergometers
- Monark arm ergometer
- Polar Team System for 20 users
- Polar heart rate monitors
- Two Lactate Pro blood lactate analyzers
- Vertec vertical leap equipment
- RevMaster spin bike with PowerCrank
- Wall-mounted 42-inch LCD monitor

The Neuromotor Laboratory

- BEP Family of Measurement Modules including Central Processing and Upper Extremity Motor Control Unit, Lower Extremity Motor Control Unit, Isometric Strength Unit, Postural Stability and Control Unit, Passive and Active Steadiness Unit, Hand Performance Sensors, and a Reaction Time Unit.
- Biodex Balance System SD
- Neurocom Basic Balance Master platform
- Jamar handgrip dynamometers
- Nicholas isometric dynamometer
- Devices for assessment of activities of daily living and functional fitness.

CONTACT

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