

Exercise Physiology Laboratory

Cramer Hall 012



The Exercise Physiology Laboratory opened in the fall of 2011 and is predominantly used for teaching and research. This 2,300 square foot laboratory houses a multitude of classes for undergraduate, graduate, and Doctor of Physical Therapy students. In this laboratory, students are provided many opportunities to master practical skills of physiological assessments. Additionally, four Clinical Translational Rehabilitation Health Science graduate student's offices are located in the laboratory.

The numerous resources in this laboratory offer opportunities for cross-sectional and longitudinal research studies. The laboratory provides full 12 lead, medical cardiac and pulmonary function testing capabilities with 2 CASE systems plus 2 additional MAX-1 EKG/treadmill systems allowing simultaneous patient/subject testing and training opportunities. Various areas of research are pursued in the lab including: efficacy of therapeutic modalities and training studies of patients who have cancer, multiple sclerosis, and diabetes. With the vast space and resources, many areas of research can be investigated, thus collaboration is always welcome. Select equipment in the laboratory includes:

- 2 Vmax Encore CPET systems
- MetaMax 3b portable CPET systems
- 2 Cardiac Assessment System for Exercise Testing (CASE) with treadmills
- 2 Marquette Electronics MAX-1 cardiac assessment systems with treadmills
- Various electronically braked cycle ergometers
- 8 Biopac physiological monitoring systems (MP 30-36)
- Zephyr Bioharness physiological monitoring system (telemetried HR monitoring for 25)
- Z-Lift and Lite gate (with tablet) bodyweight supported treadmill system
- 4 Monark cycle ergometers
- 3 Monark upper body ergometers
- 4 recumbent cycle ergometers
- NuStep
- GE vascular ultrasound