

Human Performance Assessment Core (HPAC)

Cramer Hall 004DC



The Human Performance Assessment Core (HPAC) is a 775 square foot center to perform testing on a wide range of subjects from clinical to elite. The lab is available to perform testing for athletic populations, grants, and also fee-for-service to the outside population. Starting early 2016, HPAC is equipped with some of the latest technology for sports performance including the Keiser power rack which is capable of storing data on a personal chip for each user. The 100 square foot private locker room provides another benefit to groups being tested in the HPAC. Equipment that can be found in the HPAC includes:

- GE Vivid e95 ultrasound machine with Linear, 3D and 4D echo probes
- ParvoMed metabolic cart with hood for resting metabolic rate
- Woodway treadmill
- Noraxon SciFit Treadmill and software for gait analysis (myoPressure), EMG analysis (myoMuscle), and 3-plane movement (myoMotion) (housed in Biomechanics Lab)
- HUMAC Norm strength/power/rehabilitation dynamometer
- Keiser Power Rack
- Tekscan MobileMat for balance assessment, BESS, and training
- Supplies/equipment for muscle biopsies
- 12 CompuTrainers and software (some permanently housed in Strength and Conditioning Lab)
- Velotron cycle ergometer and software (testing and training modes)
- Refractometer for urine specific gravity
- Point of care monitors for lactate, glucose, hemoglobin, cholesterol, A1c
- Skinfold calipers and various bioelectrical impedance devices (and access to Body Composition Lab)
- Portable spirometers
- Breezing portable RMR

