



Dear student,

The Biopac™ digital data acquisition systems used in the laboratory were obtained through a grant from the National Science Foundation (NSF) during the 2003-04 academic year. The grant is designed to accomplish a series of student learning objectives (SLOs). It is hoped that students will:

- 1) acquire the ability to solve scientific problems, problems with experimental design, and technical problems associated with experimental protocols;
- 2) develop the capacity to recognize and analyze patterns among data collected in the laboratory;
- 3) develop the capacity to critically evaluate experiments, recognize limitations inherent in experimental designs and methods, and draw reasoned conclusions from experimental results;
- 4) acquire introductory-level competency in computerized data acquisition and web-based dissemination, peer-review, and publication of experimental results;
- 5) demonstrate the ability to interpret physiological studies and draw parallels between animal and plant physiology;

As recipients of the grant, it is our obligation to comply with NSF guidelines regarding the use of the equipment by students for the duration of the grant (3 years). A primary task is to assess how well the laboratory design is meeting the SLOs. To accomplish this we have planned two evaluation sessions per semester, during the last hour of the laboratory sessions in weeks 1 and 15. In week 1 you will complete a self-evaluation. In week 15 you will complete a similar self-evaluation, your lab partner(s) will complete a peer evaluation form about you, and your professors will evaluate the degree to which you have met the SLOs.

This evaluation has no effect on your grade for this class; it only serves as a measure of the impact the grant has made in physiology education at Willamette.

The form contains five Student Learning Objectives (SLO), some with more than one goal. Each student (or student group) will receive a score on a scale from 1 (least) to 4 (maximum).

Please feel free to ask any of us if you have specific questions or concerns.

Professor Scott Hawke
Biology

Professor Gary Tallman
Biology

Professor Stasinios Stavrianeas
Exercise Science