### Overall Educational Goal of Elective
During this rotation, the student should learn the foundations of research design, research methods, formulation of hypotheses. In addition, the student should learn the importance of a strong scientific foundation as it applies to clinical decision-making.

### Objectives
The student is to 1) play a significant role in at least one ongoing orthopaedic basic science research project. This is to include input on project design and project methodology; 2) perform an extensive literature search for at least one of the projects; 3) potential to co-author manuscript to be submitted for publication in a peer reviewed journal.

### Brief Description of Activities
The student will spend the majority of the rotation working in the orthopaedic research laboratory. This will involve cadaveric specimen preparation, mechanical testing on the Instron machine, participating in live animal surgery and providing care for animal subjects. During this rotation, the student will have the opportunity for exposure to clinical orthopaedics when time permits. The student will be required to write a brief (2 page) report on a selected research topic.

### Method of Evaluation
Upon completion of this one month elective, the student will be evaluated in a narrative form.

### Are There Any Prerequisites for This Elective?
No

### Is This Elective Available to Third Year Medical Students as Well?
Yes