ANTH 452-A02
Selected Topics in Skeletal Disease

INSTRUCTOR: Dr. Ranald Donaldson

Course Description and Objectives
Selected Topics in Bone Disease is a biological anthropology course.

This applied osteology course builds strongly upon the osteology foundation material presented in Anthropology 352, Introduction to Modern Human Osteology, which is a mandatory prerequisite for this course.

Human bone may act as a recording medium. Records of some types of human disease are retained by bone. This course will review both archaeologic and modern human bone diseases.

Detailed bone histology and physiology will be reviewed.

Topics may include: classification of skeletal diseases; activity-related and occupational markers of bone; basics of bone in health and disease; age-related changes in bone; bone-forming diseases; cellular response to disease; congenital disorders of bone; diagnosis and operational definitions; skeletal distribution of bone abnormalities; infections of bone; metabolic diseases of bone; osteoarthritis; osteoporosis; palaeopathology; skeletal recovery and microenvironments; pseudopathology; rickets and osteomalacia; scurvy; syphilis; tuberculosis; and other topics as time permits.

Skills Development
At the conclusion of this course, a student will understand and/or practice:

1. Detailed histology and physiology of bone
2. How to analyze a bone for the presence or absence of disease
3. How to recognize a particular bone disease and its variations
4. How bone disease diagnosis may change over time
5. The cultural and physical evidence for bone disease over human historical time
6. How to present a chosen bone disease topic – summary, major paper, class PowerPoint presentation
7. Critical analysis of the bone disease literature
8. Critical analysis of peer presentations