Articulations on the Web

Allen Billy
Ph. D., Faculty of Science and Technology, Douglas College, New Westminster, B.C. Canada
Allen_Billy@douglas.bc.ca

Myrta Hayes
B.Sc., Biology Lab Instructor, Douglas College, New Westminster, B.C. Canada
hayesm@douglas.bc.ca

Michael B. Looney
Biology Lab Supervisor, Douglas College, New Westminster, B.C. Canada
looney@interchange.ubc.ca

Bones of the body join with one or more other bones at joints or articulations. Joints are classified into structural and functional classification schemes. The functional classification scheme is based on the degree of movement occurring at a joint. Joints are either synarthrotic (no movement), amphiarthrotic (some movement) or diarthrotic (lots of movement). The structural classification scheme is based on the anatomy of a joint. Joints are either cartilaginous, fibrous or synovial.

Our poster demonstration "Articulations on the Web" outlines a web-based multimedia application which focuses on the structural and functional classification of joints. It is designed for students involved in Nursing and Physical Education programs that require a basic understanding of Human Anatomy and Physiology. The application is an in-house developed multimedia product closely related to the curriculum taught at this college. Digital Camera Art displays the structure of joints and QuickTime movies illustrate the major diarthrotic joint movements.