

1086-Q5-2276 **Glenn Ledder*** (gledder@math.unl.edu). *Mathematical Modeling for Biology*.

Mathematical modeling is the tendon that connects the muscle of mathematics to the bones of science. It is almost universally neglected in mathematics curricula in the United States, a circumstance that is largely responsible for the well-documented inability of most students to use their mathematical knowledge in science courses. In this talk, I will outline some of the basic principles of mathematical modeling and give examples of how to teach them in the context of a mathematics course for biology students. (Received September 25, 2012)