M469 Introduction to Mathematical Biology

Spring 2020

Instructor: Dr. Howard

"When you can measure what you are speaking about, and express it in numbers, you know something about it; but when you cannot measure it, when you cannot express it in numbers, your knowledge is of a meager and unsatisfactory kind: it may be the beginning of knowledge, but you have scarcely, in your thoughts, advanced to the stage of science."

-William Thomson, Lord Kelvin (1824-1907)

"Mathematics is biology's next microscope—only better."

-Rita Colwell, Director of the NSF, 1998-2004

"The study of mathematics is apt to commence in disappointment.... We are told that by its aid the stars are weighed and the billions of molecules in a drop of water are counted. Yet, like the ghost of Hamlet's father, this great science eludes the efforts of our mental weapons to grasp it."

-Alfred North Whitehead (1861-1947)

"I try to think but nothing happens."

-Curly