12021 Calculus for Life Sciences (4)

Knowledge
Should understand the differential and integral calculus using examples and problems in life sciences.

Comprehension
Should understand the notions of Limits, Derivatives, and Continuous Time Phenomena, as well as First Order Differential Equations and the Integral, and The Solution of Autonomous (Separable) Equations.

Application
The main and most important application is to solve many different problems related to the subject.

Analysis
Should be able to use analytic skills to Diffusion across a membrane problems and a model for neuron firing: Fitzhugh-Nagumo Equations.

Synthesis
Should be able to apply the abstract thinking to the real life problems.

Evaluation
Should complete homework, pass mid-term tests and a final exam.

Class Activities
To solve problems in class and discuss theorems.

Out of class Activities
To submit homework assignments.