

**BCHE4510****Spring 2026****Guidance and Instructions for Test #1**

- 1) The test will cover lecture material from the beginning of the course through §3.D (calculation of  $k_{CAT}$ ).
- 2) The test will comprise the following components (with weights):
  - short responses (~25%)
  - true/false with written corrections for false statements (~25%)
  - a problem on enzyme activity (~25%)
  - a problem on calculating kinetic parameters from experimental data (~25%)
- 3) You will be supplied with the following equations (only):

$$S_0 - S + K_M \ln(S_0/S) = V_{MAX} t$$

$$v_0 = V_{MAX} - K_M \frac{v_0}{S_0}$$

- 4) You will be supplied with an answer sheet and with graph paper. Use the graph paper to make an accurate plot.
- 5) You should bring a straight edge.
- 6) Arrive before 8:28 (Eiteman cell phone time). The test will begin at 8:29:45 promptly.