

EVE 290
Introduction to Environmental Engineering

HW #6

1 (text 4.7)

Draw a simplified food chain with at least four trophic levels of organisms in a fresh-water pond feeding on plankton.

2 (text 4.8)

Draw a sketch of a lake in the Northern Hemisphere, and label/describe the epilimnion, metalimnion, hypolimnion, and temperature profile. Explain what happens during spring turnover and summer stratification.

3

Sketch a plot of DO vs. time for a river with two industrial facilities that discharge organic waste into it. Assume that the second facility is located 1.5 km downstream of the first. Briefly explain your sketch.