

**BME 377 Syllabus**  
**Winter 2005**

1/4	Tu	INTRODUCTION TO MASS AND HEAT TRANSFER
1/6	Th	REVIEW OF FLUID MECHANICS; N-S Equations
1/11	Tu	VISCOUS TRANSPORT
1/13	Th	DIFFUSION AS A RANDOM WALK
1/18	Tu	ONE-DIMENSIONAL DIFFUSION
1/20	Th	ONE-DIMENSIONAL HEAT TRANSFER (FINS)
1/25	Tu	UNSTEADY MASS TRANSPORT
1/27	Th	UNSTEADY MASS TRANSPORT
2/1	Tu	UNSTEADY MASS TRANSPORT
2/3	Th	INTRO. TO CONVECTIVE MASS TRANSPORT
2/8	Tu	MID-TERM EXAM
2/10	Th	DERIVATION OF MASS TRANSPORT EQUATION
2/15	Tu	STEADY CONVECTIVE MASS TRANSPORT
2/17	Th	MASS AND HEAT TRANSFER COEFFICIENTS
2/22	Tu	BOUNDARY LAYERS
2/24	Th	DISPERSION
3/1	Tu	CONCENTRATED SOLUTIONS
3/3	Th	OSMOSIS
3/8	Tu	ADSORPTION AND INTERFACIAL PHENOMENA
3/10	Th	SURFACE TENSION