

## **BME 377 Syllabus Fall 2004**

9/22	Wed	REVIEW OF VECTOR CALCULUS
9/23	Thu	CONTINUED REVIEW OF VECTOR CALCULUS
9/27	Mon	CONTROL VOLUMES; REYNOLDS' TRANSPORT
9/29	Wed	REVIEW OF CONSERVATION LAWS
9/30	Thu	HOW TO APPROACH AND SOLVE PROBLEMS
10/4	Mon	MOMENTUM CONSERVATION
10/6	Wed	INVISCID FLOW
10/7	Thu	Recitation PS #1
10/8	Fri	STEADY AND UNSTEADY BERNOULLI
10/11	Mon	EXAMPLES USING BERNOULLI
10/18	Mon	Recitation PS #2
10/20	Wed	VISCOUS FLOW
10/21	Thur	Recitation PS #3
10/22	Fri	NAVIER-STOKES
10/25	Mon	NAVIER-STOKES
10/27	Wed	REYNOLDS NUMBER
10/28	Thur	Recitation PS #4
11/1	Mon	STOKES FLOWS
11/3	Wed	LUBRICATION/STOKES
11/4	Thur	Recitation PS #5
11/8	Mon	UNSTEADY LAMINAR MOTIONS
11/10	Wed	UNSTEADY LAMINAR MOTIONS
11/11	Thur	Recitation PS #6
11/15	Mon	INVISCID FLOW/D'ALMERBERT'S PARADOX
11/17	Wed	BOUNDARY LAYERS
11/18	Thu	Recitation PS #7
11/19	FRI	BOUNDARY LAYERS
11/22	Mon	DIMENSIONAL ANALYSIS/DRAG
11/24	Wed	DIMENSIONAL ANALYSIS/LIFT
11/29	Mon	Recitation PS #8
12/1	Wed	TURBULENT FLOW
12/2	Thu	Recitation PS #9
12/3	FRI	REVIEW