Prof. Raymond J. Nagem
Mr. Lorenzo Kinnicut
110 Cummington St., Room 420
(617) 353-5925
Mr. Timothy Johnson
nagem@bu.edu
toj@bu.edu

Text: B. R. Munson et al., Fundamentals of Fluid Mechanics, 8th ed., John Wiley & Sons, 2019.

Week Beginning	Topics	Reading
9/5	Fluid properties	Secs. 1.1 – 1.11
9/12	Fluid statics	Secs. 2.1 – 2.6
9/19	П	Secs. 2.7 – 2.13
9/26	Bernoulli equation	Secs. 3.1 – 3.9
10/3	Kinematics of fluid flow	Secs. 4.1-4.5
10/10	Continuity equation	Sec. 5.1
10/17	Linear momentum equation	Sec. 5.2
10/24	Energy equation	Secs. 5.3, 5.5
10/31	Differential analysis of fluid flow	Secs. 6.1 – 6.4
11/7	Potential flow	Secs. $6.5 - 6.9$
11/14	Viscous flow	Secs. $6.8 - 6.9$
11/21	Dimensional analysis	Secs. 7.1 – 7.11
11/28	Pipe flow	Secs. $8.1 - 8.7$
12/5	П	II
12/12	External flow, drag and lift	Secs. 9.1 – 9.4

Grading: Three tests, each worth 25% of final grade.

Laboratory exercise, worth 10% of final grade.

Numerical simulation exercise, worth 10% of final grade.

Homework assignments, together worth 5% of final grade.