

Name: _____

Student Survey

2.20 Marine Hydrodynamics, Fall 2009

Students taking 2.20 come from many different backgrounds, for this reason it is very helpful to us in teaching this course to know about your educational background and interests.

1. Personal Info

Name: _____ Nickname: _____
Email: _____ Dept: _____ Year (U/G): _____

2. Coursework Background

Tell us how familiar you are with the following concepts. Indicate your familiar level with number (1: nothing or little; 2: OK; 3: very well):

2.1 Math/ Calculus:

Scalar () Vector () Tensor () Einstein Notation ()
Taylor series expansion () Leibnitz integral rule ()
Gradient () Divergence () Curl () Laplace operator ()
Normal vector () Integral along path () Gauss Theorem ()
Polar coordinates () Sphere coordinates ()
Ordinary Differential Equation () Partial Differential Equation ()

2.2 Fluid Mechanics:

Incompressible flow () Material derivative ()
Continuity equation () Navier-Stokes equation ()
Dimensional analysis () Kelvin's Theorem ()
Control volume () Source/Sink/Dipole () Bernoulli equation ()
Lifting surface and Kutta condition () Added mass ()
Flow separation () Boundary layer () Turbulent flow ()
Dispersion relation () Wave energy ()

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3. Learning Objectives

Tell us your objectives for taking 2.20:

Read the 2.20 “Course Objectives” <http://web.mit.edu/2.20/www/objectives.htm>.

3.1 Which of the 2.20 “Course Objectives” are of special interest/ importance to you? Explain.

3.2 Do you believe you already meet certain of the 2.20 “Course Objectives/ Outcomes”? If so, which ones?

3.3 Are there additional subject outcomes you would like to gain from this particular class? Is there something more you would like to see in the course syllabus?

4. Recitation Sessions

Indicate your preference (1, 2, 3) for the reserved recitation hours. Put an “X” if you are unable to attend.

Wednesday	11am-12pm	Room: 5-217	_____
Wednesday	1-2pm	Room: 5-217	_____
Wednesday	4-5pm	Room: 5-233	_____