

13.021 Marine Hydrodynamics, Fall 2004

LECTURER Professor D.K.P. Yue, Room 5-321, ext. 3-6823, e-mail: yue@mit.edu.
Office hours: (by appointment only).

TA Areti Kiara, Room 5-326 B, e-mail: akiara@mit.edu.
Office hours: Monday 5-7pm, Tuesday & Thursday and 2:30-4pm.

PREREQUISITES Undergraduate Fluid Mechanics (course 13.012, 1.060, 2.006 or equivalent).
Vector calculus, differential equations. Knowledge of complex variables is not required although complex arithmetic will be used.

URL <http://mit.edu/13.021/www>
All course information and material such as: announcements, lecture notes, recitation outlines, homework assignments etc... will be posted on the course web page for reference and downloads.

TEXTS (1) *Marine Hydrodynamics*, J.N. Newman
(2) *Fluid Flow*, Sabersky, Acosta, Hauptmann & Gates (*4th ed.*)

LECTURES T, R 1:00–2:30 pm, Room 1-390.

RECITATIONS You need to attend the weekly one-hour recitations. *Tentatively* we have reserved the following times: W 10-11pm, Room 1-135, W 12-1pm, W 1-2pm, Room 1-277. You will be asked to sign up for one recitation session. You need to attend only one of the recitation sessions.

HOMEWORK Homework problems will be assigned after each lecture. *Generally*, homework will be due one week after it is assigned. However, because of Holidays and Quizzes there are variations to this rule. The scheduled due dates are given in the course calendar: <http://mit.edu/13.021/www/calendar>

No late homework will be graded. For homework policy see:
http://mit.edu/13.021/www/announcements/hwpolicy_04/hwpolicy_04.pdf

LAB Each group of two or three students will be responsible for laboratory projects to be conducted at the Marine Hydrodynamics Lab 3-269. *Individual* laboratory reports are required. For lab report policy see:
http://mit.edu/13.021/www/announcements/hwpolicy_04/hwpolicy_04.pdf

ATHENA ACCOUNT Selected assignments and tutorials for this course require the use of Project Athena. It is essential for you to have an athena account.

FLUID MECHANICS FILMS : It is *STRONGLY RECOMMENDED* that you view these films. These films can be borrowed from the 13.021 TA or can be viewed any time Barker library is open. For details see:
http://www.mit.edu/afs/athena/course/13/13.021/www/course_info.htm.

GRADING :

	<u>Weight</u>	<u>Dates</u>
Quiz 1 (1.5 hrs)	20%	10/12
Quiz 2 (1.5 hrs)	20%	11/09
Final exam (3 hrs)	30%	TBA
Homework	20%	
Lab assignment	10%	due: 12/03