Course information

Web page: `http://maecourses.ucsd.edu/ceng101b`

Times

Lectures: MWF 11:00–11:50 am, Cognitive Sciences Building 004. Fourth hour: W 1:00–1:50 pm, Cognitive Sciences Building 004. Office hours: Tu 2:00–3:00 pm; e-mail: `sgls@ucsd.edu`. TA: Jaemo Park, e-mail: `jaemopark@ucsd.edu`. Office hours/problem class: W and Th 3:00–4:00 pm, EBUII 305.

Text

An Introduction to Heat and Mass Transfer by Stanley Middleman, Wiley. I have placed a copy on reserve at the Science and Engineering Library.

Homework

Homework will be assigned every week and should be turned in on Mondays (except for holidays) to the TA. Some presentation guidelines: print name clearly at top of page; box final answers, especially for problems with multiple (a, b & c) parts; label multiple parts of problems (a, b & c) clearly; list assumptions clearly. Solutions will be placed on the website after the due date.
Requests for regrades must be submitted in writing to me within a week of getting the homework back, with a justification for the regrade. Include name, date, e-mail address.

Quizzes

There will be five hourly quizzes every other Wednesday starting January 16. There will be no make-up quizzes. All exams are closed book. Bring pencil and calculator to all quizzes.

Final

The final will be on Monday, March 17, 11:30 am-2:30 pm. A make-up exam will only be provided for medical reasons with proper documentation from a physician. It will cover the material lectured during the course and the material assigned as reading.

Grading

Method A: Curve based on: Homework 10%, 4 best of 5 quizzes 40%, final 50%.
Method B: Absolute scale based on final: A > 80%, B > 70%, C > 55%, D > 40%.

Your grade will be computed by methods A and B and you will receive the higher of the two. I may rescale the different components (homework, quizzes, final) separately to arrive at the final grade. I do not recommend planning on Method B from the beginning. Method A is more reliable.

Cheating

I remind you of UCSD's policy on academic integrity. Action will be taken in cases of cheating. Don't make it happen to you.

Stefan G. Llewellyn Smith

Mechanical and Aerospace Engineering Dept.	**Tel:**	(858) 822-3475
University of California, San Diego	**Fax:**	(858) 534-4543
La Jolla, CA 92093-0411	**E-mail:**	sgls@ucsd.edu
http://www-mae.ucsd.edu/~sgls		

Research interests:

Fluid dynamics. Asymptotic methods.

Interests:

Japanese; good food; rowing (OK); surfing (very bad).

Education:
- Queens' College, University of Cambridge, 1993–Oct 1996. PhD 1996.
- Massachusetts Institute of Technology and Woods Hole Oceanographic Institution, 1992–1993.
- Queens' College, University of Cambridge, 1988–1992. Certificate of Advanced Study (Part III of the Mathematical Tripos) with Distinction, 1992. BA (Honours) First Class (Parts IA, IB & II), 1991.

Some recent publications:
- Llewellyn Smith, S. G. & Tobias, S. M. 2004 Vortex dynamos. *J. Fluid Mech.*, *498*, 1–21.
- Gille, S. T., Llewellyn Smith, S. G. & Statom, N. M. 2005 Global observations of the land breeze. *Geophys. Res. Lett.*, *32*, L05605, doi:10.1029/2004GL022139.
- Conroy, D. T., Llewellyn Smith, S. G. & Caulfield, C. P. 2005 Evolution of a chemically reacting plume in a ventilated room. *J. Fluid Mech.*, *537*, 221–253.
- Petrelis, F., Llewellyn Smith, S. G. & Young, W. R. 2006 Tidal conversion at a submarine ridge. *J. Phys. Oceanogr.*, *36*, 1053–1071, doi: 10.1175/JPO2879.1.
- Di Lorenzo, E., Llewellyn Smith, S. G. & Young, W. R. 2006 Numerical and analytical estimates of M_2 tidal conversion at steep oceanic ridges. *J. Phys. Oceanogr.*, *36*, 1072–1084, doi: 10.1175/JPO2880.1.
- Adda-Bedia, M. & Llewellyn Smith, S. G. 2006 Supersonic and subsonic states of dynamic contact between elastic bodies. *Proc. R. Soc. Lond.* A., *462*, 2781–2795, doi:10.1098/rspa.2006.1709.
- Davis, A. M. J. & Llewellyn Smith, S. G. 2006 Perturbation of eigenvalues due to gaps in 2-D boundaries. *Proc. R. Soc. Lond.* A, *463*, 759–782, doi:10.1098/rspa.2006.1796.
- Urzay, J., Llewellyn Smith, S. G. & Glover, B. J. 2007 The elastohydrodynamic force on a sphere near a soft wall. *Phys. Fluids.*, *19*, 103106.