MATH 18.022 SYLLABUS
AUTUMN 2010

Lectures  TR 1:00-2:00, F 2:00-3:00, 4-370.
Instructor  James McKernan, 2-274, phone 253-4391.
Office Hours  W 3:00-5:00, F 1:00-2:00
or by appointment, if you cannot make these times.

Text  Vector calculus, Susan Jane Colley,

Website  Stellar and

Recitations  MW, please see Stellar for more details
Exams, Final  9:00-12:00, Tuesday December 14th, 2010, 4-370
Midterms  T, 09/28 and F 10/22, Walker Memorial, F 11/12, 4-370
All midterm exams are 50 minutes long, and will be held during class time.

Grading policy  The homework will count 25% towards your final grade.
The midterms will count 45% and the final 30%.

Homework  Homework is due every week on Thursdays by 12:45pm,
in room 2-106. Late problem sets are not accepted, however the lowest problem
set score will be dropped.

Syllabus  Calculus of several variables. Topics as in 18.02 but with more
focus on mathematical concepts. Vector algebra, dot product, matrices, determinant.
Functions of several variables, continuity, differentiability, derivative. Parametrized
curves, arc length, curvature, torsion. Vector fields, gradient, curl, divergence.
Multiple integrals, change of variables, line integrals, surface integrals. Stokes’
theorem in one, two, and three dimensions.