MATH 100B SYLLABUS
WINTER 2016

Lectures   MWF 1:00-1:50, SOLIS 109
Instructor   James McKernan, APM 6260, phone (858)-534-6347
Office Hours   M 2:00-4:00
or by appointment, if you cannot make these times.
Teaching Assistant Artem Mavrin, amavrin@ucsd.edu
Section   T 10:00-10:50, APM B412
Office Hours   T 11:00-1:00, APM 2313
Text   *Abstract Algebra*, I. N. Herstein
See web site for some other suggestions.
Exams, Final   Friday March 18th, 11:30-2:30pm, TBA.
Midterms   Wednesday January 27th, Wednesday February 24th.
Homework   Homework will be assigned on the website every Monday.
It will be due one week later every Tuesday at 5pm, in a dropbox in the basement
of APM. Late problem sets are **not accepted**, however the lowest problem set
score will be dropped.
Grading   Homework 30%, Midterms 30%, Final 40%.
Syllabus   Second course in a rigorous three-quarter introduction
to the methods and basic structures of higher algebra. Topics include: rings
(especially polynomial rings) and ideals, unique factorization, fields; linear algebra
from the perspective of linear transformations on vector spaces, including inner
product spaces, determinants, diagonalization.
Prerequisites   Math 100A or consent of instructor.