MATH 110A SYLLABUS
AUTUMN 2018

Lectures TH 11:00-12:20, HSS 1128A
Instructor James Mckernan, APM 6260, phone (858)-534-6347
Office Hours T 9:00-11:00AM
or by appointment, if you cannot make these times.
Teaching Assistant Xuefeng Shen, xus009@ucsd.edu
Sections M 5:00-5:50PM, APM B412
Office Hours TH 5:00-6:00PM, APM 5712
Text Partial Differential Equations, W.A. Strauss (2nd edition)
See web site for some other suggestions.
Exams, Final Wednesday December 12th, 11:30-2:30pm, TBA.
Midterms Thursday October 18th, Thursday November 8th.
Grading Homework 30%, Midterms 30%, Final 40%.
Syllabus Fourier series, orthogonal expansions, and eigenvalue problems.
Sturm-Liouville theory. Separation of variables for partial differential equations of
mathematical physics, including topics on Bessel functions and Legendre polynomials.
Prerequisites Math 20D and either Math 18 or Math 20F or Math 31AH,
or consent of instructor.
Homework Homework will be assigned on the website every Monday.
It will be due one week later every Tuesday at 7pm, in a dropbox in
the basement of APM. Late problem sets are not accepted, however
the lowest problem set score will be dropped.
At the top of every of each assignment should appear
(1) Your name.
(2) Either the text “Sources consulted: none” or a list of all sources
consulted other than the main textbook, supplementary notes,
and your own notes from lecture and section. This is required.
(Examples of things that should be listed if used: office hours,
names of study group partners, Wikipedia, etc.)
You should not expect to be able to solve every single problem on
your own; instead you are encouraged to discuss questions with each
other or to come to office hours. If you meet with a study group, you
may find it helpful to do as many problems as you can on your own
beforehand. But write-ups must be done independently. (In practice,
this means that it is OK for other people to explain their solutions to
you, but you must not be looking at other peoples solutions as you
write your own.) Use examples in the book as a model for the level of
detail expected. Write in complete sentences whenever reasonable. If
you have questions about the homework, it is best to ask these in office
hours.