Mathematics 214
(Differentiable Manifolds), Spring 2002
MWF 3-4, 81 Evans

Textbook: Ib Madsen and Jørgen Tornehave, *From Calculus to Cohomology*, Cambridge University Press, 1997

Instructor: Mariusz Wodzicki, *Professor of Mathematics*

Office: 995 Evans Hall

I will be lecturing according to my own plan, so the class attendance is, essentially, mandatory. My goal is more ambitious than the choice of textbook may indicate; I intend the course to be a modern introduction to Global Analysis. Where appropriate, we will be using the language of Algebra (rings, modules, bimodules, categories and functors) and Homological Algebra. These are not prerequisits though some previous exposure is highly desirable. The textbook, however, will be referred to constantly.

Homework assignments will be given in regular intervals. The course grade will be based on the homework, class participation and the Final Exam (likely to be of the 'take home' form).

The course will have its webpage:

http://www.math.berkeley.edu/~wodzicki/214

Please bookmark it. You are welcome to check it regularly for various class related materials and announcements.