# APMA 990 — Introduction to Wavelets

Manfred R. Trummer*

January 15, 2002

Text: Strang/Nguyen: Wavelets and Filterbanks, Wellesley-Cambridge, 1996.

Syllabus: We will spend between 2 and 3 weeks on Fourier analysis, and then cover chapters 1 - 6 of the text, plus some extras, on wavelets.

Office hours: TBA, or by appointment.

Grading: There will be regular written assignments, many of them involving some programming (in Matlab). Every student is expected to make at least one short presentation on a homework problem to the class.

**Exams, project**.

- Friday, **February 08, 2002**, 9:30am, Quiz 1 (Short quiz on Fourier material) 8%.
- Friday, **March 25, 2002**, 8:30am, Quiz 2 (on wavelet material), 20%.
- Course project, presentations on Friday, **April 05, 2002**, 9:30am.

Your grade will be determined by your homework assignments and presentations (48%), your project (24%), and the quizzes (28%).

E-mail list: The course has the mail list `apma-990@sfu.ca`. All registered students are automatically on this list.

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| Time & Place : | **Monday,** | $8^{30} - 10^{20}$ | **AQ 5050** |
| | **Friday,** | $8^{30} - 10^{20}$ | **EAA Rm 1100** |
| Web: | http://www.math.sfu.ca/~mrt/Wavelets | | |

Comments, suggestions are welcome at any time.

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