There will be five projects for this semester. The first project is compulsory. There will then be two groups of two projects: students should do one project from each of these groups. There will be approximately three lectures on each project, and students will attend lectures for ALL five projects.

Week 1–2
Project 1 (compulsory) on *Spectral Methods for Nonlinear Wave Equations* will be handed out on Wednesday March 8th and will be lectured on in weeks one and two. The project must be handed in by Wednesday 5th April.

Weeks 3–5
Lectures will concentrate on the second group of projects.
Project 2: *Symplectic Integrators for Hamiltonian Systems*
Project 3: *Numerical Solution of Stochastic Differential Equations*

Week 6
Students will have started work on ONE of the Projects 2 or 3. The project must be handed in by Wednesday 10th May.

Mid-Semester Break (one week)

Weeks 6–8
Lectures will concentrate on the third group of projects.
Project 4: *Applications of Singular Value Decomposition*
Project 5: *Neural Networks: A Learning Network*

Weeks 9–12
Students will have started work on ONE of the Projects 4 or 5. The project must be handed in by Wednesday 31st May.

Georg Gottwald, Carslaw 636, gottwald@maths.usyd.edu.au, 9351 5784.