September 9. Introduction and basic facts about PDE's (Strauss 1.1)
September 14. First-order linear PDE's (Strauss 1.2, John 1.4-1.5)
            and PDE's from physics (Strauss 1.3-1.4)
September 16. Initial and boundary values problems (Strauss 1.4-1.5)
September 21. Types of PDE's (Strauss 1.6, John 2.1)
            and Distributions (Strauss 12.1, John 3.6)
September 23. Distributions, continued (Strauss 12.1, John 3.6)
September 28. The wave equation (Strauss 2.1-2.2, John 2.4)
Sptember 30. The heat/diffusion equation (Strauss 2.3-2.4)
October  5. The heat/diffusion equation, continued (Strauss 2.3-2.4)
            and Review (Strauss 2.5)
October  7. First midterm
October 12. Fourier transform (Strauss 12.3, with lecture notes)
October 14. Solution of the heat and wave equations in $\mathbb{R}^n$
            via the Fourier transform (Strauss 12.3, with lecture notes)
October 19. The inversion formula for the Fourier transform,
            tempered distributions, convolutions,
            solutions of PDE's by Fourier transform (Strauss 12.3-12.4)
October 21. Tempered distributions, convolutions, solutions of PDE's
            by Fourier transform, continued (Strauss 12.3-12.4)
October 26. Heat and wave equations in half space and in intervals (Strauss 3.2)
October 28. Inhomogeneous PDE's (Strauss 3.3-3.4, John 5.1)
November  2. Inhomogeneous PDE's, continued (Strauss 3.3-3.4, John 5.1)
November  4. Spectral methods – separation of variables (Strauss 4.1-4.3)
November  9. Spectral methods – separation of variables, continued (Strauss 4.1-4.3)
            and review
November 11. Veterans Day–Holiday
November 16. Second midterm
November 18. (Generalized) Fourier series (Strauss 5.1-5.3)
November 23. (Generalized) Fourier series, continued (Strauss 5.1-5.3);
November 25. Thanksgiving–Holiday
November 30. Convergence of Fourier series and $L^2$ theory (Strauss 5.4-5.5, John 4.5)
December  2. Inhomogeneous problems (Strauss 5.6)
December  7. Laplace’s equation and special domains (Strauss 6.1-6.2, John 4.1-4.2)
December  9. Poisson formula (Strauss 6.3, John 4.3)