

MATHEMATICS 146C

ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS

Text: *Elementary Differential Equations and Boundary Value Problems*, Seventh Edition, by W. E. Boyce and R. C. DiPrima

This is the third quarter course in a three quarter sequence covering the theory of linear differential equations, orthogonal expansions, boundary value problems for ordinary and partial differential equations, separation of variables and transform methods.

TOPICS	SUGGESTED NO. OF 50 MIN. CLASSES
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Partial differential equations, separation of variables	11
(§§ 10.1-10.8 and Appendices A and B)	
Series solutions near regular singular points	4
(§§ 5.4-5.8)	
Boundary value problems	9
(§§ 11.1-11.6)	