

Paul Robinson
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Department of Mathematics

College of Liberal Arts
and Sciences
(<http://clas.ufl.edu/>)

MAP 4305/5304 (Sections 0642/0643)

Intermediate Differential Equations

Time and Location

MTuWThF Period 5 (14:00-15:15) LIT 113

Office hours

Tue 9am-10am; Wed 10am-11am; Thu 11am-12noon (or by appointment)

Text

Nagle, Saff and Snider, *Fundamentals of Differential Equations*, Ninth Edition.

Topics

We shall cover Chapters 8 (Power series solutions) and 10 (Partial Differential Equations) of the adopted text, along with other topics (if time permits). The proviso 'if time permits' is inserted because we shall spend a not insignificant amount of time studying some special functions that are important both in mathematics and in physical applications; these special functions arise naturally from physical problems and their properties bear directly on these problems.

Policies

Homework problems will be assigned and discussed in class, but will not be graded. Grades will be determined by performance on three equally-weighted in-class tests, according to the scale with thresholds A(90%) B(80%) C(70%) D(60%) and with +/- grades determined by +/-3% increments. For other matters of policy, please consult 'Policies plus' at the Files page.

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Tests (tentative)

- #1) Friday 24 May
- #2) Friday 7 June
- #3) Wednesday 19 June

Homework

- 8.2) 1, 3, 5, 12, 14, 18, 19, 23, 25, 27, 29, 31, 33, 37, 38
- 8.3) odd 1-17, 19, 20, 22, 32
- 8.4) 1-6

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