

1. Syllabus: Notes on Diffy Qs Differential Equations for Engineers

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The textbook: <https://www.jirka.org/diffyqs/>

First undergraduate course in differential equations, aimed at engineers, typically at the end of the calculus sequence.

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It is similar to a course often taught with other books such as those by *Edwards and Penney* or *Boyce and DiPrima*.

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- Power series methods
- Nonlinear systems

Prerequisite:

Basic sequence in calculus.

For systems, some prior exposure to linear algebra will be useful.