# UNIVERSITY OF CALGARY

## FACULTY OF SCIENCE
### Department of Mathematics and Statistics

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## Applied Mathematics 307      Differential Equations for Engineers

(see Course Descriptions for the applicable academic year: [http://www.ucalgary.ca/pubs/calendar/](http://www.ucalgary.ca/pubs/calendar/) )

*Syllabus*

| Topics | Number of hours |
|---|:---:|
| Introduction: definitions, existence, uniqueness | 1 |
| First order equations, applications | 8 |
| Systems, applications to second and fourth order equations | 10 |
| Laplace transforms | 4 |
| Series, Taylor series | 9 |
| Series solutions to second order ordinary differential equations | 4 |
| **TOTAL HOURS** | **36** |

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