



Mathematics 349 **Calculus III**

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

Syllabus

| <u>Topics</u> | <u>Number of Hours</u> |
|---|------------------------|
| Sequences, Infinite series, Power Series, Taylor Series | 12 |
| Review of: Vectors in \mathbb{R}^2 and \mathbb{R}^3 , Lines, Planes, Cross and dot products, and Matrices | 4 |
| Curves in \mathbb{R}^2 and \mathbb{R}^3 , Polar coordinates, Parametrization, Arclength | 6 |
| Functions of several variables, Limits and continuity, Partial derivatives, Chain Rule, Directional derivative, Implicit functions. | 12 |
| TOTAL HOURS | 36 |

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2009:07:01
KEB
Note added 2009:07:01