

## COURSE DETAIL

### APPLIED LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS

**Country**

Hong Kong

**Host Institution**

Hong Kong University of Science and Technology (HKUST)

**Program(s)**

Hong Kong University of Science and Technology

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mathematics

**UCEAP Course Number**

115

**UCEAP Course Suffix****UCEAP Official Title**

APPLIED LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS

**UCEAP Transcript Title**

LINEAR ALGEBRA

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

**Course Description**

This course provides a concise introduction to linear algebra and differential equations, with exposure to the use of numerical computing software like MATLAB. Topics include systems of linear equations, matrix algebra and determinants, language of vector spaces and inner product spaces, eigenvalue and eigenvector, first order ODEs, linear second order ODEs and oscillations, and homogeneous system of first order ODEs with constant coefficients.

**Language(s) of Instruction**

English

**Host Institution Course Number**

MATH2350

**Host Institution Course Title**

APPLIED LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS

**Host Institution Course Details****Host Institution Campus****Host Institution Faculty****Host Institution Degree****Host Institution Department**

Mathematics

**Course Last Reviewed**

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