

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 Campus**Host Institution Faculty****Host Institution Degree****Host Institution Department**

Mathematics

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