## **COURSE DETAIL**

## NUMERICAL METHODS: PRINCIPLES, ALGORITHMS AND APPLICATIONS

**Country** China

Host Institution Peking University, Beijing

**Program(s)** Peking University

UCEAP Course Level Lower Division

UCEAP Subject Area(s) Mathematics

**UCEAP Course Number** 40

**UCEAP Course Suffix** 

UCEAP Official Title NUMERICAL METHODS: PRINCIPLES, ALGORITHMS AND APPLICATIONS

**UCEAP Transcript Title** NUMERICAL METHODS

**UCEAP Quarter Units** 4.50

**UCEAP Semester Units** 

Through software-assisted learning, you will be able to intuitively understand fundamental mathematical concepts such as linear algebra, and delve into advanced topics like the PageRank algorithm, Analytic Hierarchy Process (AHP), function fitting, numerical integration, solution of ordinary differential equations, and machine learning methods.

Language(s) of Instruction English

Host Institution Course Number 00136540

**Host Institution Course Title** NUMERICAL METHODS: PRINCIPLES, ALGORITHMS AND APPLICATIONS

**Host Institution Campus** 

**Host Institution Faculty** 

**Host Institution Degree** 

**Host Institution Department** 

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