

## COURSE DETAIL

### THE APPLICATION OF FINANCIAL MODELING

**Country**

Taiwan

**Host Institution**

National Taiwan University

**Program(s)**

National Taiwan University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Business Administration

**UCEAP Course Number**

109

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

THE APPLICATION OF FINANCIAL MODELING

**UCEAP Transcript Title**

FINANCIAL MODELING

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

Spreadsheets can be used for more than just creating tables and charts and summarizing data. Instead of just storing, summarizing, and formatting data, a financial model is used for analysis. Spreadsheets are now commonly used for creating complex mathematical models. This course explains how to build financial models in Excel by providing instructions, not templates. Students learn to develop value-added skills in spreadsheet modeling of financial applications. Course topics include: time value of money; financial ratio analysis; capital budgeting; sensitivity analysis; scenario analysis; statistics analysis and matrix operation; two-asset portfolio analysis; 3-asset portfolio analysis: matrix and VBA; optimal capital structure; dividends policy; interest rate models; bond pricing and risk management; option pricing: Black-Scholes model; option pricing: Binominal model; option trading strategy; and pivot tables . Excel functions and tools, such as Data Table, Goal seeker, Solver are used intensively. Programming a VBA macro is an important task in this course.

### Language(s) of Instruction

English

### Host Institution Course Number

Fin3024

### Host Institution Course Title

THE APPLICATION OF FINANCIAL MODELING

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Finance

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