

## 97-1 大葉大學 完整版課綱

### 基本資訊

課程名稱	教育統計	科目序號 / 代號	1767 / ELF3018
開課系所	英美語文學系	學制 / 班級	大學日間部3年1班
任課教師	劉慧如	專兼任別	專任
必選修 / 學分數	選修 / 2	畢業班 / 非畢業班	非畢業班
上課時段 / 地點	(三)34 / J307	授課語言別	中文

### 課程簡介

This course is intended to teach students the most important ideas in statistics. Students will learn to interpret statistical information and have a basic understanding of the concepts such as levels of measurement, random sampling, the normal curve, and hypothesis testing. Many examples and exercises will be provided to build their understanding of these statistical concepts. They will not only learn useful skills for working with data, but also understand the role of statistics in the research process. In this course, students will have hands-on experience in using statistics software package to analyze data.

### 課程大綱

Measurement Concepts  
Frequency Distribution  
Measures of Central Tendency and Variability  
The Normal Curve and Standard Scores  
Hypothesis Testing  
Paired Samples t Test  
Independent Samples t Test  
Analysis of Variance

### 基本能力或先修課程

None

### 課程與系所基本素養及核心能力之關連

### 成績稽核

教科書(尊重智慧財產權，請用正版教科書，勿非法影印他人著作)

書名	作者	譯者	出版社	出版年
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無參考教科書

參考教材及專業期刊導讀(尊重智慧財產權，請用正版教科書，勿非法影印他人著作)

書名	作者	譯者	出版社	出版年
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無參考教材及專業期刊導讀

上課進度		分配時數(%)				
週次	教學內容	講授	示範	習作	實驗	其他
1	Introduction	100				
2	Chapter 1: Statistics and Scientific Method	70		30		
3	Chapter 2: Measurement Concepts	70		30		
4	Chapter 2/ Chapter 3: Frequency Distribution	70		30		
5	Chapter 3	70		30		
6	Chapter 4: Measures of Central Tendency and Variability	70		30		
7	Chapter 4	70		30		
8	Midterm exam	0		0		
9	Chapter 5: The Normal Curve and Standard Scores	70		30		
10	Chapter 5	70		30		
11	Chapter 6: Correlaton	70		30		
12	Chapter 6	70		30		
13	Chapter 10: Hypothesis Testing	70		30		
14	Chapter 12: Sampling Distribution, Sampling Distribution of the Mean, the Normal Test	70		30		
15	Chapter 13: Student's t Test for Single Samples	70		30		
16	Chapter 14: Student's t Test for Correlated and Independent Groups	70		30		
17	Final exam	0		0		
18	No class	0		0		