# 朝陽科技大學 095學年度第1學期教學大綱
# Engineering Mathematics (III) 工程數學(三)

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| **當期課號** | 1466 | **Course Number** | 1466 |
| **授課教師** | 余志鵬 | **Instructor** | YU,CHIH PENG |
| **中文課名** | 工程數學(三) | **Course Name** | Engineering Mathematics (III) |
| **開課單位** | 營建工程系(四日)三A | **Department** | |
| **修習別** | 選修 | **Required/Elective** | Elective |
| **學分數** | 3 | **Credits** | 3 |
| **課程目標** | 介紹工程分析之進階主題，主要範圍包括批偏微分方程、傳立葉分析以及向量微積分。強調對各種工程實際問題建立數學模式以及解析。 | **Objectives** | This course covers the advanced topics of engineering analysis. Selected topics from partial differential equations, Fourier analysis, and vector calculus are introduced. Content is correlated with topics on other engineering courses and applications. For good achievement, students need to have solid background from previous mathematics courses. |
| **教材** | Advanced Engineering Mathematics 8th ed. by Kreyszig | **Teaching Materials** | Advanced Engineering Mathematics 8th ed. by Kreyszig |
| **成績評量方式** | 期中考30%期末考30% 平時成績及小考 30% 學習態度 10% | **Grading** | mid-term exam.:30%<br>final exam.:30%<br>quiz:30%<br>learning altitude:10% |
| **教師網頁** | _ | | |
| **教學內容** | 使學生了傅利葉轉換與應用，偏微分方程及其土木工程上之應用。 | **Syllabus** | It provides sudents with knowledge of Fourier Integral, Partial duifferential eqaution and their application to civil engineering |

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