# 朝陽科技大學 091學年度第1學期教學大綱
# Soil Mechanics 土壤力學

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| **當期課號** | 1061 | **Course Number** | 1061 |
| **授課教師** | 林基源 | **Instructor** | LIN,JI YUAN |
| **中文課名** | 土壤力學 | **Course Name** | Soil Mechanics |
| **開課單位** | 營建工程系(四日)二B | **Department** | |
| **修習別** | 必修 | **Required/Elective** | Required |
| **學分數** | 3 | **Credits** | 3 |
| **課程目標** | 土壤爲一種不均質的材料，本課程首先探討土壤的組成、種類與結構，繼而針對土壤的物理性質進行土壤分類，再探討土壤的滲透性、壓縮性與剪力強度等工程特性。 | **Objectives** | Nature soil deposits are not homogeneous in nature. Soil mechanics is the fundamental subject of geotechnical engineering, and its applications to foundation analysis and design have been extensive during the 20th century. This course covers the properties of soil, such as its origin, grain-size distribution, ability to drain water, compressibility, shear strength and so on. |
| **教材** | 課堂講解，配合作業及小考督促學習，藉由考試驗收成果 | **Teaching Materials** | 1. Illustrations<br>2. Homeworks<br>3. Middle term and final examinations |
| **成績評量方式** | 1.上課精神與出席率（＋10分 ~ －10分）<br>2.課後習題（25分）<br>3.二次期中考與一次期末考（25分×3 = 75分） | **Grading** | 1. Present (＋10% ~ －10%)<br>2. Homeworks (25%)<br>3. Middle term and final examinations (25% × 3 = 75%) |
| **教師網頁** | | | |
| **教學內容** | 土壤力學爲土木工程之一重要科目，針對工程之需要，學生需熟悉其物理性質及工程力學分析，教學內容包括<br>1.土壤之基本物理性質，包括指數性質與土壤分類等<br>2.分析土體之工程性質，包括滲透性、壓縮性與剪力強度 | **Syllabus** | Soil is used as a construction material in various civil engineering projects, and it supports struction foundations. Thus, civil engineers must study the properties of soil, such as its origin, grain-size distribution, ability to drain water, compressitity, shear strength, and load-bearing capacity. |

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