

| 地理資訊系統 Geographic Information System | | |
|---|--|------------------|
| 蘇明道 MingDaw Su Tel: 3366-3451 | Room | 生工系五號館第 202 教室 |
| Email : WatGIS.GIS@gmail.com | Time | Wed. 2:20-5:00pm |
| Date | Topic | Reading |
| 09/16 | Introduction / GIS Fundamentals | Chap.01 |
| 09/23 | GIS Applications, | |
| 09/30 | GIS Applications, Software brief | |
| 10/07 | Coordinate System | Chap.02 |
| 10/14 | Vector Data Model | Chap.03 |
| 10/21 | Raster Data model | Chap.05 |
| 10/28 | Data Input /Data Collection, | Chap.06 |
| 11/04 | Spatial Data Editing And Data Quality | Chap.08 |
| 11/11 | Mid-Term Exam | |
| 11/18 | Attribute Data Input And Management | Chap.09 |
| 11/25 | Data Display and Cartography | Chap.10 |
| 12/02 | Data Exploration | Chap.11 |
| 12/09 | Vector Data Analysis | Chap.12 |
| 12/16 | Raster Data Analysis | Chap.13 |
| 12/23 | Terrain and Network Analysis | Chap.14,18 |
| 12/30 | Modeling, system development and outlook | |
| 01/06 | Project Presentation | |
| 01/14 | <i>Final Exam</i> | |
| <p>This course is not a training course for any specific GIS software but an introduction course to spatial information processing. The fundamentals of GIS will be discussed including its capability, limitations, applications, and related technologies. Students will be asked to do literature review on GIS related papers; Hand-on experience will also be accumulated through homework, in-class presentation and discussions.</p> <p>本課程為地理資訊系統入門，介紹空間資料特性、地理資訊系統基本知識、原理與技術，包括其功能、限制、應用及相關議題，作為進一步空間資料分析之基礎。本課程雖不是專為特定軟體之操作訓練，但將採用 ESRI 之 ArcView 為實習與作業之基礎工具，課程中將提供 ArcView trial version 及相關基本操作介紹與資料。學生將經由作業與實習得到空間資料輸入、數化、編輯、輸出等相關經驗，並瞭解 GIS 相關之應用可能。</p> | | |
| <p>Text: Kang-Tsung Chang, Introduction to GIS, 4th Ed. McGraw Hill</p> <p>Handouts</p> <p>ftp://140.112.76.191/ Name: watgis Password: WATGISTaiwan</p> <p>Grading Policy: Mid-Term(25%), Homework(50%), Project(25%)</p> | | |