



## 課 綱 Course Outline

### 經濟學系碩士班大數據分析與產業經濟組

|   |   |                  |                  |  |     |
|---|---|------------------|------------------|--|-----|
| 中文課程名稱<br>Course Name in Chinese  | 總體經濟分析與應用   |                  |                  |  |     |
| 英文課程名稱<br>Course Name in English  | Macroeconomic Analysis and Application  |                  |                  |  |     |
| 科目代碼<br>Course Code   | EC_50400  | 班 別<br>Degree    | 碩士班<br>Master' s |  |     |
| 修別<br>Type  | 必修<br>Required  | 學分數<br>Credit(s) | 3.0              | 時 數<br>Hour(s)   | 3.0 |
| 先修課程<br>Prerequisite  |   |                  |                  |  |     |
| 課程目標<br>Course Objectives   |   |                  |                  |  |     |
| This course is constructed to familiarize students with the skills of modern macroeconomic theory at the graduate level. Models are developed to explain how growth model, real business cycles, Keynesian theory and microeconomic foundation models are determined. |   |                  |                  |  |     |
| 系教育目標<br>Dept.' s Education Objectives  |   |                  |                  |  |     |
| 1   | 培育具學術深造潛力及實務發展能力的優秀經濟人才。<br>Educate postgraduate students with professional knowledge and empirical skills for further academic research.   |                  |                  |  |     |
| 系專業能力<br>Basic Learning Outcomes  |   |                  |                  | 課程目標與系專業能力相關性<br>Correlation between Course Objectives and Dept.' s Education Objectives |     |
| A   | 數理分析能力：通曉經濟學的進階理論技巧，應用數學與賽局解決經濟議題的能力。<br>Mathematical analysis skills: Mastering in intermediate application of mathematical theories and game theory in analyzing economic issues. |                  |                  | ●  |     |
| B   | 實證經濟分析能力：通曉經濟學的進階實證技巧，善用資訊科技進行資訊蒐集、資料統計與計量分析。<br>Empirical analysis skills: Mastering in intermediate application of statistics and econometrics in data collection and examination |                  |                  | ●  |     |
| C   | 微觀經濟之闡釋能力：通曉進階個體經濟學相關的理論與應用。<br>Microeconomic perspective: Thorough understanding of intermediate microeconomic theories and relevant application                                   |                  |                  |  |     |

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| D   | 宏觀經濟之闡釋能力：通曉進階總體經濟學相關的理論與應用。<br>Macroeconomic perspective: Thorough understanding of intermediate macroeconomic theories and relevant application          | ● |
| E   | 自我調整適應社會之能力：具備適應現代社會的學養以及就業能力。<br>Employment opportunities: capabilities of working on important policy and decision challenges in business and government | ● |
| F   | 溝通表達能力：思路清晰，有能力與人溝通並撰寫進階專業研究報告。<br>Communication skills: Having a clear mind and capability in writing an intermediate professional academic report        | ● |
| 圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated   |  |   |
| 課程大綱<br>Course Outline  |  |   |
| Topic 1: Introduction (chapter 1)<br>Topic 2: The Centralized Economy (chapter 2)<br>Topic 3: The Decentralized Economy (chapter 4)<br>Topic 4: Economic Growth (chapter 3)<br>Topic 5: The Monetary Economy (chapter 8)<br>Topic 6: Imperfectly Flexible Prices (chapter 9)<br>Topic 7: The Open Economy (chapter 7)<br>Topic 8: Nominal Exchange Rates (chapter 12) |  |   |
| 資源需求評估 (師資專長之聘任、儀器設備的配合 . . . 等)<br>Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)  |  |   |
| 課程要求和教學方式之建議<br>Course Requirements and Suggested Teaching Methods  |  |   |
| 其他<br>Miscellaneous   |  |   |
| Macroeconomic Theory, 2nd Edition, Michael Wickens, 2012, Princeton, NJ: Princeton University Press.  |  |   |