

# 國立嘉義大學人文藝術學院史地學系教學綱要

授課科目	災害研討		
授課教師	談珮華		
必選修別	選修	先修科目	無
學分數	3	上課時間及地點	每週五 234, I408
開課年級	碩士史地一甲		
教學目標	<ol style="list-style-type: none"> <li>1. Review three main types for natural hazard: i) Climatic; ii) Geological; iii) Land Instability. All consider the casual processes and consequences of these hazards.</li> <li>2. Present detailed cases studies at various scales, and focus on attempting to reduce the impact of natural hazards.</li> </ol>		
教學內容及進度	<ol style="list-style-type: none"> <li>I. Introduction: a classification of natural hazards</li> <li>II. Climatic hazards               <ol style="list-style-type: none"> <li>1. Background: atmospheric origin, composition and structure, stability and cloud development, precipitation processes, forces and winds, air masses and fronts</li> <li>2. Large-scale: tropical cyclones, extra-tropical cyclones, storm surges</li> <li>3. Strong wind: tornadoes and dust storms</li> <li>4. Associated precipitation hazards: thunderstorms, lightning and hail</li> <li>5. Drought and flood</li> <li>6. Global warming</li> <li>7. Ozone hole</li> </ol> </li> <li>III. Geological hazards               <ol style="list-style-type: none"> <li>1. Earthquakes</li> <li>2. Volcanoes</li> <li>3. Tsunamis</li> <li>4. Environmental control and management</li> </ol> </li> <li>IV. Land instability hazards               <ol style="list-style-type: none"> <li>1. Landslip</li> <li>2. Soil erosion</li> <li>3. Mudslides</li> <li>4. Avalanches</li> </ol> </li> <li>V. Cases studies of managing natural hazards</li> </ol> <p>* This syllabus is subject to changes.</p>		
評量標準	Homework + Oral and written reports 40% Mid-term Exam 30 % Final Exam 30 %		
參考資料	Frampton S., J. Chaffey, J. Hardwick and A. Mcnaught (2000), Natural hazards, 2 <sup>nd</sup> ed., Hodder & Stoughton Educational. Bryant, E.A. (1991), Natural hazards, Cambridge University Press. 劉鴻喜 (1998), 自然地理學, 增訂四版, 台北: 三民。		