Please consult Intellectual Property Rights before making a photocopy. Please use the textbook of copyrighted edition.

## ②國玄東華大學

### 課 網 Course Outline

		生命	命科學系學士班				
中文課程名稱 Course Name in Chinese		轉譯醫學導論					
英文課程名稱 Course Name in English		Introduction to translational medicine research					
科目代碼 Course Code		LF41460	班 別 學士班 Degree Bachelor's				
修》 Typ		學程 Program	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
	修課程 erequisite						
	之間的聯繫;特別	Cou 生了解分子水平上的變 關注從健康組織到患病					
		Dept.'s I 學相關領域之人才	系教育目標 Education Object	ives			
1	Cultivating talents engaged in life science						
2	培育學生具有自我學習、獨立思考與創新之能力 Fostering students to acquire the capabilities of self-learning, independent thinking, and innovation.						
系專業能力 Basic Learning Outcomes					力相關性 Correlati between ( Objective Dept.'s	課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
A	具備生命科學相關學科之基礎知識 Having the basic knowledge of life science.					•	
В	具備邏輯分析與解決問題的能力					•	
C		數據分析與書面及口頭等 philities of data int		olvojo ond			

圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated

Having the capabilities of data integration and analysis, and

the skills of written and poster presentation.

Having the capability of lifelong learning.

具備終生學習的能力

#### 課程大綱 Course Outline

#### Part I. Translational Science

1. Overview of the basic definitions and key concepts related to clinical and translational science

Part II. Translation to Humans-T1 research:

- 2. Observational studies (W2)
- 3. Case studies
- 4. Proof-of-concept studies
- 5. Phase I clinical trials, and phase II clinical trials

#### Part III. Translation to Patients-T2 research:

- 6. Translation of findings from T1 research to patients.
- 7. Phase III clinical trials, observational studies.
- 8. Evidence synthesis, and clinical guidelines development.
- 9. Group discussion (I)

#### Part IV: Translation to Practice -T3 research

- 10. Translation of findings from T2 research (patients) to actual clinical practices
- 11. Phase IV clinical trials
- 12. Health services research, and clinical outcomes research.

# Part V: Translation to Communities and Participating in Clinical and Translational Research -T4 research

- 13. Translations of findings from practices (T3 research) to communities, both domestic and globally.
- 14. Prevention and outcome studies, mass screening studies, and health policy studies.
- 15. An overview of how interested individuals can participate in clinical and translational research; as an independent research, as a clinical research professional, and as a study volunteer.
- 16. The final segment of the module demonstrates what a typical study volunteer will encounter if they are selected to participate in a clinical trial.
- 17. Group Discussion II
- 18. Group Discussion (III)

#### 資源需求評估(師資專長之聘任、儀器設備的配合・・・等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

部分課程邀請慈濟醫學中心血腫科黃威翰,泌尿科張嘉峰,小兒腎臟科陳明群,一般外科張明群醫師協助。

#### 課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

由線上資源收集資料整理和文獻,以簡報方式呈現,於每個主題會進行分組討論。

其他

Miscellaneous