



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	轉譯醫學導論		學年/學期 Academic Year/Semester	115/1
課程名稱(英文) Course Name in English	Introduction of translational medicine research			
科目代碼 Course Code	BMM_41460	系級 Department & Year	學四	開課單位 Course-Offering Department
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0	
授課教師 Instructor	/彭致文			
先修課程 Prerequisite				
課程描述 Course Description				
<p>現代科學匯集多個研究領域以跨領域方式結合不同專長但相關的專家共同參與研究工作，促進並加速將研究室的基礎探討應用到臨床醫療中，因此整合為“轉譯醫學”的概念。藉由改善由研究室經驗轉變為病床邊方法的實踐。近年來越來越多的生醫研究的轉譯醫學已產生出卓越的貢獻。藉由開設“轉譯醫學”的課程，提供學生可以深入地瞭解轉譯醫學的原理與實際運作方式，並知悉鑑轉譯醫學在生物醫學研究、藥物發展與政策制定中的關聯性與重要性重要性。同時，本課程會提供對學生如何培養以生物醫學研究促進人類健康為未來志向。</p>				
課程目標 Course Objectives				
<p>本課程的目的是讓學生了解分子水平上的變化如何影響與人體有關的單個細胞和/或器官的基本功能之間的聯繫；特別關注從健康組織到患病組織的變化以及症狀，不同疾病的診斷和治療之間的聯繫。</p>				
系專業能力 Basic Learning Outcomes				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.			●
B	具備邏輯分析與解決問題的能力。Having the capabilities of logical analysis and problem solving.			●
C	具備資料整合、數據分析與書面及口頭報告之能力。Having the capabilities of data integration and analysis, and the skills of written and poster presentation.			●
D	具備終生學習的能力。Having the capability of lifelong learning.			●
圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated				
授課進度表 Teaching Schedule & Content				
週次Week	內容 Subject/Topics			備註Remarks
1	Course introduction			
2	AI in translational medicine I			
3	AI in translational medicine II			
4	Product investigation and development, and The Food and Drug administration			
5	Drug discovery and design I			
6	Drug discovery and design II			

7	Informed consent and Privacy of subjects	
8	Points to consider: the principal investigator, site selection and budget negotiations	
9	期中考試週 Midterm Exam	
10	Early phase clinical trials design	
11	Going global: International Trials, Global Good Clinical Practice/The clinical research team	
12	Clinical study protocol elements and statistical considerations	
13	Study monitoring & the study site initiation	
14	Safety reporting: definitions and reporting requirements	
15	Compliance and quality assurance: audits and inspections	
16	Conflicts of interest	
17	期末考試週 Final Exam	

彈性 教學 規劃 Flexible Teaching Plan	<p>請勾選(至少需勾選1 個項目): Please tick the box(es). (At least one item is required.):</p> <p><input type="checkbox"/> 問題討論 Problem-based Discussion</p> <p><input type="checkbox"/> 翻轉教學 Flipped Classroom</p> <p><input type="checkbox"/> 展演實作 Performance / Practical Presentation</p> <p><input type="checkbox"/> 校外參訪 Off-campus Visit</p> <p><input type="checkbox"/> 講座活動 Lecture / Seminar</p> <p><input type="checkbox"/> 線上作業 Online Assignments</p> <p><input type="checkbox"/> 自主學習 Self-directed Learning</p> <p><input type="checkbox"/> 課業輔導 Academic Support</p> <p><input type="checkbox"/> 實驗操作 Experiment Operation</p> <p><input type="checkbox"/> 遠距教學(同步) Distance Learning (Synchronous)</p> <p><input type="checkbox"/> 遠距教學(非同步) Distance Learning (Asynchronous)</p> <p><input type="checkbox"/> 其他(請填寫) Others (Please specify.):</p> <p>備註: 本校學期週數自115 學年度起調整為17 週, 為符合1學分18 小時之原則, 請教師規劃安排彈性教學。 Note: From the 115th academic year, the semester will be 17 weeks. Please include flexible teaching activities to meet the required 18 hours per credit.</p>
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教學策略 Teaching Strategies

- 課堂講授 Lecture 分組討論 Group Discussion 參觀實習 Field Trip
 其他 Miscellaneous:

教學創新自評 Teaching Self-Evaluation

創新教學 (Innovative Teaching)

- 問題導向學習 (PBL) 團體合作學習 (TBL) 解決導向學習 (SBL)
 翻轉教室 Flipped Classroom 磨課師 Moocs

社會責任 (Social Responsibility)

- 在地實踐 Community Practice 產學合作 Industry-Academia Cooperation

跨域合作 (Transdisciplinary Projects)

- 跨界教學 Transdisciplinary Teaching 跨院系教學 Inter-collegiate Teaching

- 業師合授 Courses Co-taught with Industry Practitioners

其它 other: This course is relevant to these items of SDGs as following:

- 健康與福祉 (Good health and Well Being)
性別平等 (Gender Equality)

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績(含出缺席) General Performance (Attendance Record)	20%		✓						
期中考成績 Midterm Exam	30%	✓		✓					
期末考成績 Final Exam	30%	✓		✓					
作業成績 Homework and/or Assignments	20%				✓				
其他 Miscellaneous (_____)									

評量方式補充說明

Grading & Assessments Supplemental instructions

教科書與參考書目 (書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

課程教材網址(含線上教學資訊, 教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.
Personal website can be listed here.)

其他補充說明 (Supplemental instructions)