

國立東華大學
教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	高等分子細胞生物學			學年/學期 Academic Year/Semester	115/1
課程名稱(英文) Course Name in English	Advanced Molecular Cell Biology				
科目代碼 Course Code	BMM_D0040	系級 Department & Year	博士	開課單位 Course-Offering Department	生化暨分子醫學科學系
修別 Type	必修 Required	學分數/時間 Credit(s)/Hour(s)		3.0/3.0	
授課教師 Instructor	/謝函芸/林哲緯				
先修課程 Prerequisite					
課程描述 Course Description					
讓學生更近一步的了解分子細胞生物學,增進分子細胞學方面的知識,以培養未來細胞生物學研究的人才					
課程目標 Course Objectives					
The course aims to guide students to understand cell biology, molecular cell biology, knowledge, scientific rationale, and methodology; in addition, students can learn the ability to gain comprehensive understanding of scientific issues related to cell biology.					
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	具備執行生物醫學專業研究及解決問題的能力。Have the ability to conduct biomedical professional research and solve problems.				●
B	建立吸收新知、終身學習及創新應用能力。Establishing the ability to absorb new knowledge, engage in lifelong learning, and apply innovation.				●
C	具備專業領域的研究素養，並具有國際視野之科學涵養。Having expertise in the professional field of study and possessing a scientific cultivation with an international perspective.				
D	具備計畫書與論文撰寫之能力。Possessing the ability to write project proposals and papers.				○
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	Introduction				
2	Cytoskeleton and cell movement/ Cell adhesion and extracellular matrix				
3	中秋節放假				
4	Journal Study (I)				
5	國慶日放假				
6	Cell cycle and its control system/ Apoptosis				

7	Journal Study (II)	
8	Report	
9	期中考試週 Midterm Exam	
10		
11		
12		
13		
14		
15		
16		
17	期末考試週 Final Exam	

彈性 教學 規劃 Flexible Teaching Plan	請勾選(至少需勾選1 個項目): Please tick the box(es). (At least one item is required.): ☒ 問題討論 Problem-based Discussion ☐ 翻轉教學 Flipped Classroom ☐ 展演實作 Performance / Practical Presentation ☐ 校外參訪 Off-campus Visit ☐ 講座活動 Lecture / Seminar ☒ 線上作業 Online Assignments ☒ 自主學習 Self-directed Learning ☐ 課業輔導 Academic Support ☐ 實驗操作 Experiment Operation ☐ 遠距教學(同步) Distance Learning (Synchronous) ☐ 遠距教學(非同步) Distance Learning (Asynchronous) ☐ 其他(請填寫) Others (Please specify.): 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.
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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:

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									
期末考成績 Final Exam									
作業成績 Homework and/or Assignments	80%								
其他 Miscellaneous (_____)									
評量方式補充說明 Grading & Assessments Supplemental instructions									
Journal Study (40%). Report (40%)									
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)									