













課程流水號 Serial Number	24015
課號 Course Number	LS4002
班次 Class	A
科目名稱(中文) Course Title(in Chinese)	書報討論II
科目名稱(外文) Course Title(In English or other languages)	Seminar II
授課老師(中文) Instructor(in Chinese)	粘仲毅
授課老師(外文) Instructor(In English or other languages)	Chung-Yi Nien
辦公時間(中文) Office Hour(in Chinese)	Thursday 13:00-15:00
辦公時間(外文) Office Hour(In English or other languages)	Thursday 13:00-15:00
課程目標(中文) Course Objective(in Chinese)	<p>一般教科書或者講義內容是由他人的研究成果匯集整理而成的知識，除了課堂上在學到這些必要的知識外，培養學生建立自己的探索能力，能自動地進行自我學習，進而將自己的知識與能力擴大是相當重要的。書報討論課程的設計就是希望能培養學生這樣的能力。這門課著重培養學生以下的能力：</p> <p>(1) 同學能探索自己的興趣，進而決定主題，蒐集資料，培養閱讀科學報告的能力</p> <p>(2) 資料整合和口頭表達的能力</p> <p>(3) 投影片的製作</p> <p>(4) 學習研究如何著手和執行</p>
課程目標(外文) Course Objective(In English or other languages)	<p>General textbook or lecture content is to bring together knowledge from research gathered from others, in addition to those learned in the classroom in the necessary knowledge, the students build their ability to explore, can automatically self-learning, and thus their knowledge with the ability to expand is very important. Books and discuss curriculum design is hoping to students such capabilities. This course focuses on the ability of students the following:</p> <p>(1) students to explore their interests, and then decided that the theme, gather information, develop the ability to read scientific reports</p> <p>(2) data integration and oral expression ability</p> <p>(3) slides produced</p> <p>(4) learning how to proceed and execute</p>
授課內容(中文) Course Description(in Chinese)	<p>每週由三位同學上台進行口頭報告 20 ~ 25 分鐘，而後與同學進行提問與回答，對報告者的議題進行充份的討論，討論時間 10 ~ 10 分鐘。本學期每位同學需進行兩次上台報告，課</p>













	堂上無法回答的問題，課後找尋相關資料以書面或口頭的方式回覆。
授課內容(外文) Course Description(In English or other languages)	Week by three students came to power 20 to 25 minutes of the oral report, and then with the students to ask questions and answer those topics to report full discussion about the time 10 to 10 minutes. This semester, each student needs twice came reports on classroom unanswerable questions, reply after school to find relevant information in writing or verbally.
教科書/參考書(中文) Textbook/References(in Chinese)	1. Journal of Biological Chemistry 2. Nature 3. Science 4. Proceed ings of the National Academy of Science USA 5. EMBO Journal 6. Genes and Dev elopment
教科書/參考書(外文) Textbook/References(In English or other languages)	1. Journal of Biological Chemistry 2. Nature 3. Science 4. Proceed ings of the National Academy of Science USA 5. EMBO Journal 6. Genes and Dev elopment
自編教材比例 Self-compiled Textbook/References Proportion	
授課方式 Requirements	研討Seminar 個別指導Individual Discussion
評量配分比重(中文) Grading(in Chinese)	1.Oral presentation 75% 2.Participation 15% 3.Paper and PPT slide 10%
評量配分比重(外文) Grading(In English or other languages)	1.Oral presentation 75% 2.Participation 15% 3.Paper and PPT slide 10%
課程所屬學制 Educational System	學士班(Undergraduate Programme)
課程領域 Course Domain	基礎學科
跨系課程領域 Cross Department Course Domain	

系所核心能力 Core Competencies of Department	強度指數 Overall Rating						評量方式 Corresponding Assessments
	0 不具 備 Zero	1 非常 低 Very Low	2 低 Low	3 普通 Medium	4 高 High	5 非常 高 Very High	

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基礎生物專業知識 Basic Biological Sciences	●	●	●	●	●	●	<input type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input type="checkbox"/> 作業練習(Assignments) <input checked="" type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input checked="" type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)
發掘問題及實驗能力 Question approaching and experimental skills	●	●	●	●	●	●	<input type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input type="checkbox"/> 作業練習(Assignments) <input checked="" type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input checked="" type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)

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邏輯分析 Logical thinking and analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input type="checkbox"/> 作業練習(Assignments) <input checked="" type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input checked="" type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)
電腦應用 Computer application	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input type="checkbox"/> 作業練習(Assignments) <input checked="" type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input checked="" type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)

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溝通技巧 Communication skills							<input type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input type="checkbox"/> 作業練習(Assignments) <input checked="" type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input checked="" type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)
獨立思考與自我學習 Independent thinking and self-learning							<input type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input type="checkbox"/> 作業練習(Assignments) <input checked="" type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input checked="" type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)

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團隊合作 Team work							<input type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input type="checkbox"/> 作業練習(Assignments) <input checked="" type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input checked="" type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)
博雅通識 General knowledge							<input type="checkbox"/> 紙筆測驗/會考 (Test/Exam) <input type="checkbox"/> 作業練習(Assignments) <input checked="" type="checkbox"/> 口頭報告/口試 (Presentation/Oral Exam) <input checked="" type="checkbox"/> 專題研究報告(書面) (Research Report(printed on paper)) <input type="checkbox"/> 實作/實驗 (Practices/Experiments) <input checked="" type="checkbox"/> 出席/課堂表現 (Attendance/Performance) <input type="checkbox"/> 學習檔案評量(Portfolios Assessment) <input type="checkbox"/> 自我評量/同儕互評(Self Assessment/ Peer Assessment) <input type="checkbox"/> 作品/創作展演 (Products/Creative Performance) <input type="checkbox"/> 其他(Others) <input type="checkbox"/> 無(No assessment)

