

國立東華大學

生命科學系

111學年度課程規劃表

生物技術碩士班(International program)最低畢業學分數33學分 1. 專業必修17學分 2. 專業選修16學分				
專業必修	科目代碼	學分	先修科目	備註
1. 書報討論(一) Journal club (I)		1.0		
2. 書報討論(二) Journal club (II)		1.0		
3. 專題討論(一) Seminar (I)		1.0		Thesis proposal
4. 專題討論(二) Seminar (II)		1.0	*專題討論(一) /	Thesis progress report
5. 專題演講(一) Colloquium (I)		1.0		
6. 專題演講(二) Colloquium (II)		1.0		
7. 分子生物科技 Molecular Biotechnology		3.0		
8. 論文研究 Thesis		2.0		Must enroll at least four courses (one per semester), a total of eight credits.
專業選修	科目代碼	學分	先修科目	備註
9. 高等生物化學 Advanced Biochemistry		3.0		
10. 生物反應器原理與實作 Bioreactor principles and implementation		1.0		
11. 生物分子核磁共振光譜學 Biomolecular NMR Spectroscopy		3.0		
12. 生化工程學特論 Special Topics in Biochemical Engineering		3.0		
13. 奈米藥物傳遞系統 Nanoparticles as drug delivery system		3.0		
14. 奈米生物技術特論 Special Topics on Nano Biotechnology		3.0		

系所主管: _____

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院 長: _____

15.	幹細胞核心技術 Core Techniques in Stem Cell Research		3.0		
16.	文獻導讀 Literature Readings		3.0		
17.	台灣生技產業現況 Taiwan's Contemporary Biotechnology Industry		2.0		
18.	癌症生物學 Cancer Biology		3.0		
19.	基因學 Genes		3.0		
20.	藥物物理化學 Physical Pharmacy		3.0		
21.	病毒學特論 Special Topics in Virology		3.0		
22.	核糖核酸科技 RNA Technology		3.0		
23.	幹細胞與組織工程特論 Special Topics on Stem Cell and Tissue Engineering		3.0		
24.	生物農藥 Biopesticide Molecules		3.0		
25.	脂質化學與代謝 Lipid chemistry and metabolism		3.0		Prerequisite course : Biochemistry
26.	植物細胞組織培養技術 In Vitro Culture of Higher Plants		3.0		
27.	轉譯醫學 Translational medicine research		3.0		
28.	細胞訊息傳遞特論 Special topics in cellular signaling		3.0		

重要相關規定

1. 畢業學分可採計本系博士班或本校其他研究所專業選修課程，但以3學分為限。

1. Master' s students can take courses that are listed in the doctoral curriculum from the Institute or in the master' s curriculum from other Graduate Schools but no more than three credits can be counted for the graduation credits.

2. 自105學年度(含)起入學之碩士班學生需修習「學術研究倫理教育課程」，以入學第一學年結束前修習並完成為原則，實施方式依本校「學術研究倫理教育課程實施要點」辦理。修習學術研究倫理教育課程之學生，須在通過線上課程測驗成績達及格標準，並出示修課證明始得申請學位考試。未通過者，須於申請學位考試前補修完成，未完成本課程者，不得申請學位考試。

2. From academic year 2015, all master' s students must register for the course during their first year of enrollment. According to the regulations governing the implementation of the "Education on Academic and Research Ethics" course at National Dong Hua University, all students taking the course must pass the exams online. Students who fail the exams must re-take the tests and complete all other course requirements before their application of the degree exam. Failing to complete and pass the course, students may not apply for their degree exam.

3. 為執行教育部「大專校院學生雙語化學習計畫」，推動全英語授課，理工學院EMI教師所開設之EMI課程，與本系相同課名或相同性質課程可視為等同課程。請參閱相同或等同課程對照表。

3. In order to implement the Program on Bilingual Education for Students in College (the BEST program) and the English as a Medium of Instruction Teaching Plan (known as the EMI teaching plan), set by the Taiwan Ministry of Education, the EMI courses offered by the EMI teachers of the College of Science and Engineering will be deemed as the same or as the equivalent courses with the same course names or the same course nature offered by the department. Please refer to 「NDHU' s Course Equivalency Table (國立東華大學相同或等同課程對照表)」.