

材料系大學部雙主修之必修及選修課程規定
NTHU MSE Required and Specialized courses for Double Major

- 一、系定必修：所有系定必修課程。(兩系共同必修，可填變更科目表申請免修)
Required courses: all MS Dept. required courses.
(The same required courses of two depts. : could apply for credits waiver)
- 二、專業選修：至少 27 學分，每一門科目須填入應修科目表。
Specialized courses: At least 27 credits and should fill all the courses in the curriculum form.
專題不能計入專業選修學分。Special Topics are not included.
- 三、申請時程：每學期開學後 2 週內。
Apply within two weeks after the beginning of every semester from sophomore to senior.
- 四、繳交資料：申請表(含應修科目表)、歷年成績單。兩系共同必修加填變更科目申請表免修。
Hand in application form, course form, transcripts. Fill the modified course form if there are the same required courses of two depts.
- 五、申請前，請先 email 電子檔至加修系所承辦人查閱。Suggest to send the files before application.

類別	科目名稱	學分數		備註
		上學期	下學期	
系定必修 (71 學分)	普通化學 General Chemistry	3	3	
	普通化學實驗 General Chemistry Laboratory	1	1	
	普通物理 General Physics	3	3	
	普通物理實驗 General Physics Laboratory	1	1	
	微積分 Calculus	3	3	
	材料科學與工程 Materials Science and Engineering	3	3	
	工程數學 Engineering Mathematics	3	3	
	材料熱力學 Thermodynamics of Materials	3	3	
	晶體缺陷 Crystal defect	3		
	擴散與相變化 Diffusion and Phase Transformation	3		
	材料實驗一、二 Laboratories of Materials (I)(II)	2	2	
	材料科技論壇 The Forum of Materials Science and Technology	1		
	工程導論 Introduction to Engineering	2		
	機械性質 Mechanical Properties	3		
	材料之物理性質 Physical Properties of Materials	3		
	結晶繞射概論 Introduction to Crystal Structure and Diffraction Theories	3		
	金屬材料 Metallic Materials	3		5 科任選 3 科
	電子材料 Electronic Materials	3		
陶瓷材料 Ceramic Materials	3			
高分子材料 Polymer Materials	3			
生醫材料 Biomedical Materials	3			
專業選修 Specialized Elective (27 學分) (27 credits)	專業科目 Specialized courses	27		專業科目合理、工、資電、原科、生科、科管、半導體之各學院課程，其中至少 3 科(9 學分)應為本系(MS 字頭)選修課程(不含材料科學專題及工程倫理)。 Elective courses started with "MS" code offered by MSE Dept. Special Topics on Materials Science are not included.

※Application form: 清大註冊組/[學士班相關規定](#)。(表單下載：[在校生及新生常用表單](#))

MSE contact window: 材料系辦 魏小姐 (Ms. Wei), 03-5715131#33831, hcwei@mx.nthu.edu.tw。

材料系研究所-不受理雙主修申請。MSE Double Major of Graduate are inadmissible.