

109學年度 自然資源與環境學系博士班 課程規劃表
109 Academic year Curriculum planning table

一、最低畢業學分數(Minimum graduation credits)：

- 畢業學分(Graduation credits)：30.0學分(credits)
 專業必修(Professional Required)：15.0學分(credits)
 專業選修(Professional elective)：15.0學分(credits)

二、重要相關規定(Important regulations)：

- 1、(1)專題討論(1學分)：學生須修習並通過此課四次，且每學期只得上一專題討論課程。
 (2)原105學年度(含)前課規內之「NRD_70000專題討論(一)、NRD_70500專題討論(二)、NRD_71100專題討論(三)及NRD_71700專題討論(四)」課程等同於106學年度(含)以後課規內之「專題討論」課程。
 2、(1)專題研究(2學分)：學生選定指導教授後始得修習，並須修習通過此課四次，且每學期只得上一專題研究課程。
 (2)原105學年度(含)前課規內之「NRD_70600專題研究(一)、NRD_71500專題研究(二)、NRD_71600專題研究(三)及NRD_72000專題研究(四)」課程等同於106學年度(含)以後課規內之「專題研究」課程。
 3、選修本(外)校其他研究所的相關課程，在經課業指導委員會同意後，可列入博士班的專業選修學分。
 4、原98學年度課規「NRD_70100研究哲學與方法論」等同於99學年度以後新課規「NRD_70700自然資源與環境研究特論」。

- 1.(1)Seminar course (one credit hour each): Students should take seminar four times and are limited to one seminar course each semester.
 (2) The courses named NRD_70000 Seminar (I), NRD_70500 Seminar (II), NRD_71100 Seminar (III), and NRD_71700 Seminar (IV) are the same courses as that named Seminar.
- 2.(1) Independent Study (two credit hours each): After students have selected an advisor, they should take Independent Study four times and are limited to one Independent Study each semester.
 (2) The courses named NRD_70600 Independent Study (I), NRD_71500 Independent Study (II), NRD_71600 Independent Study (III), and NRD_72000 Independent Study (IV) are the same courses as that named Independent Study.
3. With the approval of dissertation advisory committee, students may take graduate-level courses offered within or outside the Department of Natural Resources and Environmental Studies to meet graduation requirements.
4. The course named Research Philosophy and Methodology (NRD_70100) is the same course as that named Advanced Research on Natural Resources and Environment (NRD_70700).

科目名稱 Course Title(Chinese)	英文科目名稱 Course Title(English)	科目代碼 Course Number	學分 Credit	*先修科目或#背景科目 *Prerequisite course or #Background course	備註 Remarks
專業必修(required)					
自然資源與環境研究特論	Advanced Research on Natural Resources and Environment	NRD_70700	3.0		
專題討論	Seminar	NRES70410	1.0		須修習4次共4學分
專題研究	Independent Study	NRES70420	2.0		須修習4次共8學分
專業選修(elective)					
環境教育特論	Special Topics in Environmental Education	NRD_71300	3.0		
國家公園特論	Special Topics in National Park Management	NRD_72100	3.0		
遊憩衝擊特論	Special Topics on Tourism & Recreation Impacts	NRD_70400	3.0		
生態學特論	Advanced Ecology	NRES71020	3.0		
植物分類學特論	Advanced Plant Taxonomy	NRES@0100	3.0		
生物地理學特論	Advanced Biogeography	NRES70100	3.0		
生物科技特論	Advanced Biotechnology	NRES70200	3.0		

城鄉規劃特論	Special Topics of Town and Rural Planning	NRES@0110	3.0		
環境政策特論	Advanced Environmental Policy	NRES@0120	3.0		
環境管理特論	Advanced Environmental Management	NRES70400	3.0		
環境與資源規劃特論	Advance of environment and resources planning	NRES70500	3.0		
環境經濟特論	Special Topics on Environmental Economics	NRES71040	3.0		
環境正義特論	Advanced Environmental Justice	NRES@0130	3.0		
社區、價值與環境特論	Community, Value and Environment	NRES71000	3.0		
台灣區域地質特論	Special Topics on Regional Geology of Taiwan	NRES71050	3.0		
沉積體系特論	Special topics on Sedimentology - Basin Analysis	NRES70300	3.0		
地球物質學特論	Special Topics in Earth Materials	NRES71010	3.0		
雷達遙測與地表變形	Radar interferometry and surface deformation	NRES70600	3.0		
環境科學論文寫作	Technical Writing in Environmental Sciences	NRES70900	3.0		
人文地理資訊系統特論	Human Activity and Time Geography	NRES71030	3.0		
研究方法特論	Special Topics on Research Methods	NRES71080	3.0		
地震特論	Special Topics in Seismology	NRES71110	3.0		
獨立研究(一)	Individual Study(I)	NRES71060	3.0		
獨立研究(二)	Individual Study(II)	NRES71070	3.0		
獨立研究(三)	Individual Study(III)	NRES71090	3.0		
獨立研究(四)	Individual Study(IV)	NRES71100	3.0		
昆蟲學	Entomology	NRES71140	3.0		
水棲昆蟲生態學	Ecology of Aquatic Insect		3.0		
植物生理生態學	Physiological Plant Ecology		3.0		
生態系生態學	Ecosystem Ecology		3.0		
環境治理專題	Special Topics on Environmental Governance		3.0		
環境管理專題	Special Topics on Environmental Management		3.0		
應用統計分析方法	Applied Statistic analysis		3.0		
社會調查方法	Social Survey Methods		3.0		
高等岩石學	Advanced Petrology		3.0		
光性岩象分析	Optical Petrography		3.0		
地球科學資料處理	Computer methods and data analysis in Earth Sciences		3.0		
地理資訊系統	Geographical Information Science	NRES71130	3.0		
觀測地震學	Observatory Seismology	NRES71160	3.0		
野外地質專題	Special Topics on Field Geology		3.0		
生態系生態學專題	Special Topics on Ecosystem Ecology	NRES71120	3.0		
環境測量與監測	Environmental Measuring and Monitoring		3.0		
統計學緒論	Introduction to Statistics		3.0		
社會 - 生態系統與傳統知識	Socio-Ecological Systems & Traditional Knowledge	NRES71150	3.0		

業務單位：教務處課務組
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