

授課學期	108 學年度 第 2 學期		
開課單位	<input checked="" type="checkbox"/> 跨院國際博士班學位學程 <input type="checkbox"/> 跨院國際碩士學位學程		
授課教師	Tzu-Hua Wang	學分數	3
授課教室	南大校區 1401	上課時間	周二下午 1-3 節
授課語言	<input checked="" type="checkbox"/> 英文 <input type="checkbox"/> 中文	人數限制	8
課程限制	This is an advanced course about research on educational sciences. Students who want to take this course are required to have proper understanding on learning and instructional theories, educational research methodology and statistics . Students are also required to have experiences on educational research.		
課程名稱(中文)	跨領域教育科學研究		
課程名稱(英文)	Interdisciplinary Research on Educational Sciences		
課程簡述	The purpose of this course is to guide students to conduct an interdisciplinary research on educational sciences. The topics may comprise STEM/STEAM education and e-Learning (using innovative technology in education). In addition, using EEG, biofeedback and eye-tracking techniques as educational research instruments are also included. However, before taking this course, students who want to do this kind of research are required to have proper ability on using these technology (EEG, biofeedback and eye-tracking).		
中文暨英文關鍵字 (五組)	educational sciences; e-Learning; STEM/STEAM education; interdisciplinary research design; academic paper writing 教育科學、數位學習、STEM/STEAM 教育、跨領域研究設計、學術論文寫作		
課程大綱 Detailed Course Syllabus	<ul style="list-style-type: none"> ● 課程說明(Course Description) The purpose of this course is to guide students to conduct an interdisciplinary research on educational sciences. There are three sections: <p>Session 1: Discussion on research issues and literature review</p> Each student is required to comprehensively review at least three academic papers about the issue he/she wants to investigate. Each student also needs to present the results of literature review to peers. All students need to have		

comprehensive discussion on the presentation.

Section 2: Discussion on research design

After finding the research issue, each student needs to have a draft research design and present it to peers. The draft research design will be discussed and reviewed.

Section 3: Research implementation and discussion on academic paper writing

Each student needs to conduct a research based on the research design and collect data. After data analysis, each student needs to write an academic paper based on the results of data analysis. The draft academic paper is also need to be presented to peers. It will be discussed and reviewed. Students are encouraged to submit their papers to an academic conference or journal.

● 指定用書(Text Books)

WOS SSCI journals in the Education and Educational Research category.

● 教學方式(Teaching Method)

1. Literature review and discussion
2. Guidance on finding research issues
3. Guidance on research design and implementation
4. Guidance on academic paper writing

● 教學進度(Syllabus)

Week 1: Course Introduction

Week 2~4: Discussion on research issues

Week 5~9: Literature review

Week 10~12: Discussion on research design

Week 13~14: Research implementation

Week 15~18: Discussion on academic paper writing

● 成績考核(Evaluation)

Evaluation on research design and implementation (60%) and

	<p>academic paper writing (40%)</p> <ul style="list-style-type: none">● 可連結之網頁位址 相關網頁(Personal Website) <p>The URL will be announced in the first week of this course.</p>
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