

Tamkang University Academic Year 114, 1st Semester Course Syllabus

Course Title	RESEARCH METHODOLOGY	Instructor	CHANG, CHIUNG-FANG			
Course Class	TDCXM1A MASTER'S PROGRAM, GRADUATE INSTITUTE OF EDUCATIONAL PSYCHOLOGY AND COUNSELING, 1A	Details	<ul style="list-style-type: none"> ♦ Blended Course ♦ Required ♦ One Semester ♦ 3 Credits 			
Relevance to SDGs	SDG4 Quality education					
Departmental Aim of Education						
<p>I. To foster prospective practitioners with disciplines of Educational Psychology and Counseling Psychology.</p> <p>II. To train students with disciplines and research specialization.</p> <p>III. To nourish students' disciplines in interacting with settings of various levels of schools and other related agencies.</p> <p>IV. To enhance students' competitiveness via incorporating studies of Educational Psychology and Counseling Psychology.</p> <p>V. To integrate theory and practice in diversifying the horizons for students.</p> <p>VI. To well-prepare students with competence in their certifying by the public agencies.</p>						
Subject Departmental core competences						
<p>A. Well-equipped with disciplines of Educational Psychology and Counseling Psychology. (ratio:20.00)</p> <p>B. Competent for conducting research on the fields of Educational Psychology and Counseling Psychology.(ratio:40.00)</p> <p>C. Competent for acting as a specialist in Educational Psychology and Counseling Psychology. (ratio:20.00)</p> <p>D. Well-specialized in ethics of Educational Psychology and Counseling Psychology. (ratio:20.00)</p>						
Subject Schoolwide essential virtues						
<p>1. A global perspective. (ratio:10.00)</p> <p>2. Information literacy. (ratio:10.00)</p> <p>3. A vision for the future. (ratio:10.00)</p> <p>4. Moral integrity. (ratio:10.00)</p>						

5. Independent thinking. (ratio:20.00)
6. A cheerful attitude and healthy lifestyle. (ratio:20.00)
7. A spirit of teamwork and dedication. (ratio:10.00)
8. A sense of aesthetic appreciation. (ratio:10.00)

Course Introduction	<p>This course mainly cultivates students' ability to conduct social science research. Learning the basic concepts of various research methods, students will master core skills such as research ethics, research design, data collection and analysis. The course emphasizes practice, allowing students to critically read research literature and use research tools such as literature retrieval and APA paper writing format. After completing this course, students will have the ability to design research, write research plans, and effectively communicate research results.</p>
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The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

- I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.
- II. Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.
- III. Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	Establish a basic understanding of research	Cognitive
2	Cultivate the ability and confidence to design research	Affective
3	Learn to select appropriate research methods	Cognitive
4	Enhance academic writing skills and develop a sense of research ethics	Psychomotor
5	Develop critical reading and analysis skills for research papers	Cognitive
6	Apply research paper formats to write papers	Psychomotor

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment

1	ABCD	12345678	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)
2	ABCD	12345678	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)
3	ABCD	12345678	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written)
4	ABCD	123456	Lecture, Discussion, Practicum	Testing, Discussion(including classroom and online), Practicum
5	ABCD	123456	Lecture, Discussion, Practicum	Study Assignments, Discussion(including classroom and online)
6	ABCD	12345678	Lecture, Discussion, Publication, Practicum	Study Assignments, Discussion(including classroom and online)

Course Schedule

Week	Date	Course Contents	Note
1	114/09/15 ~ 114/09/21	Course Introduction: Nature of Research, Basic Concepts and Academic Frameworks	
2	114/09/22 ~ 114/09/28	Literature Collection: Library Resources and Thesis Database Tools	Class at Library Room 301
3	114/09/29 ~ 114/10/05	The Nature of Education Research and Literature Search Practice	
4	114/10/06 ~ 114/10/12	Research Topic Selection and Lecture Skills	
5	114/10/13 ~ 114/10/19	Thesis Writing: APA Style; Research Ethics and IRB	
6	114/10/20 ~ 114/10/26	Thesis Writing: Structure and Literature Review	
7	114/10/27 ~ 114/11/02	Research Framework and Comprehensive Discussion	
8	114/11/03 ~ 114/11/09	Research Methods: Hypotheses and Variables; Research Subjects and Sampling Methods	
9	114/11/10 ~ 114/11/16	Measurement Tools: Reliability and Validity; Research Bias	

10	114/11/17 ~ 114/11/23	Data Analysis: Descriptive and Inferential Statistics	Online Asynchronous Instruction
11	114/11/24 ~ 114/11/30	Research Methods: Experimental Design	
12	114/12/01 ~ 114/12/07	Research Methods: Survey Research	
13	114/12/08 ~ 114/12/14	Research Methods: Observation and Interview	Online Asynchronous Instruction
14	114/12/15 ~ 114/12/21	Research Methods: Mixed Methods; Thesis Writing: Research Conclusion and Implications	
15	114/12/22 ~ 114/12/28	Research Design Report and Peer Discussion (I)	
16	114/12/29 ~ 115/01/04	Research Design Report and Peer Discussion (II)	
17	115/01/05 ~ 115/01/11	Research Report and Future Outlook	Research and Academic Ethics Record
18	115/01/12 ~ 115/01/18	Flexible Teaching Activities	
Key capabilities		self-directed learning Problem solving	
Interdisciplinary			
Distinctive teaching			
Course Content		Logical Thinking AI application	
Requirement		The course assessment consists of weekly quizzes, learning worksheets, class attendance, discussion participation, presentations, and academic writing. All assignments must be submitted on time; late submissions and plagiarism are not permitted under any circumstances.	
Textbooks and Teaching Materials		Using teaching materials from other writers:Textbooks, Presentations Name of teaching materials: Fraenkel, J. R., Wallen, N. E., & Hyun, H. H. (2021). Educational research: Design and practice (M.-L. Yang & S.-N. Hsieh, Trans.; 3rd ed.). Psychology Publishing. (Original work published 2018) Yen, C.-L. (2021). Even fools can write a thesis (quantitative + qualitative expanded ed.): A social-science dissertation writing guide [In Chinese]. Wu-Nan Book Inc.	
References			

Grading Policy	<ul style="list-style-type: none"> ◆ Attendance : 20.0 % ◆ Mark of Usual : 30.0 % ◆ Midterm Exam : 10.0 % ◆ Final Exam : 40.0 % ◆ Other < > : %
Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at https://web2.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php.</p> <p style="color: red;">※"Adhere to the concept of intellectual property rights" and "Do not illegally photocopy, download, or distribute." Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>