

# EDUCATION AND SOCIAL SCIENCES ADVANCED RESEARCH METHODS - CERTIFICATE

This certificate testifies to a student's successful mastery of advanced competencies in education and social sciences research methods, with emphasis on quantitative or qualitative approaches.

The Advanced Research Methods (ARM) Certificate is a stand-alone graduate-level certificate in Education and Social Sciences Advanced Research Methods (ARM), offered by the College of Education and Human Development at Texas A&M University. The program allows graduate and non-degree seeking students the opportunity to gain additional training in research methodology, and to obtain academic validation for their efforts.

The ARM certificate facilitates students' initiation into the academic publication process, and allows them to become more "marketable" in today's competitive hiring practices, especially in the context of Research Universities with very high research activity.

While the certificate does not appear on the diploma, it will be added to the transcript.

## Program Requirements

Code	Title	Semester Credit Hours
Select four of the following:		12
	Educational Administration and Human Resource Development	
EDAD 623	Advanced Fieldwork Methods	
EHRD 656	Narrative Analysis	
EHRD 657	Life History Research	
	Educational Psychology	
EPSY 625	Advanced Psychometric Theory	
EPSY 637	Qualitative Grounded Theory Methodologies	
EPSY 642	Meta-Analysis of Behavioral Research	
EPSY 643	Applied Multivariate Methods	
EPSY 650	Multiple Regression and Other Linear Models in Education Research	
EPSY 651	Theory of Structural Equation Modeling	
EPSY 652	Theory of Hierarchical Linear Models	
EPSY 653	Advanced Structural Equation Modeling	
EPSY 654	Longitudinal Data Analysis	
EPSY 655	Item Response Theory	
EPSY 656	Survey Instrument Development	

EPSY 661	Data Analysis for Single-Case Experimental Design in Educational Research	
Teaching, Learning and Culture		
EDCI 627	Teaching and Learning Data Analysis and Uncertainty Concepts	
EDCI 628	Analyzing and Reporting Field Based Research	
EDCI 661	Mixed Methods Research in Curriculum and Instruction	
EDCI 688	Research Methods in EDCI III	
EDCI 706	Narrative Inquiry in Curriculum and Instruction I	
EDCI 707	Narrative Inquiry in Curriculum and Instruction II	
<b>Total Semester Credit Hours</b>		<b>12</b>

Perform at a satisfactory level in all research methods courses; grades lower than a B and U grades will not be accepted.

Produce a Student Certificate Portfolio, which includes:

- Manuscript of original research in which the student is listed as an author that uses one or more methodological processes gained from the certificate coursework.
- Evidence that the manuscript was submitted for review to a peer-reviewed journal. Acceptance for publication is not a requirement.
- Submit a two (2) page, double-spaced integrative reflection essay. Respond to the essay according to the following questions and guidelines. What knowledge, skills, and competencies from the certificate courses did you apply to the research manuscript? Refer to a specific page number in your manuscript that outlines the use of said skills. How will those knowledge, skills, and competencies be helpful beyond your current academic program?