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**Education and Social Sciences Advanced Research Methods (ARM) – Certificate**

Overview

The Advanced Research Methods (ARM) Certificate is a stand-alone graduate-level certificate in Education & 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 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 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.

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Certificate Eligibility: Who can obtain the ARM Certificate?

* Graduate students in all departments within CEHD
* Graduate students in all departments outside of CEHD, at Texas A&M University who wish to add to their social science research training, or
* Non-degree seeking students (e.g. professionals in the Bryan/College Station community) who wish to improve their research skills.

Non-degree Seeking Student Application Requirements

* You must have an undergraduate or graduate degree in any field of study from an accredited college or university.
* Complete a Graduate CAS Application and submit application fee ($89 Domestic, $119 International). More information can be found here http://admissions.tamu.edu/graduate/apply.
* The Spring application deadline is October 15. Summer and Fall application deadlines are April 15.
* Submit official college transcripts from each institution attended, which must be received by application deadline date.
* Submit a professional resume or curricula vitae along with your application.

Certificate Requirements

* Complete four (4) approved advanced research methods courses, totaling 12-credit hours with a passing grade of *A, B, or S.*
* Engage in research, either one's own study, or as part of a research team. The research study must utilize one or more methods gained from coursework. While what constitutes as research-based reporting may vary across fields, journal articles formatted as commentaries, letters-to-the-editor, teaching tips, or nonsystematic reviews of the literature are not eligible to fulfill the journal article submission requirement. Additionally, book chapters will not be accepted. Systematic literature reviews and meta-analyses do count, however. The submitted article can come from the student’s thesis or dissertation, or a paper written for a class. Provide evidence of submission for publication in a peer-reviewed journal, in which the student is listed as an author. A copy of the published article that meets the above criteria will also suffice.
* Write an integrative reflection essay (see section below).
* Students will submit a Certificate portfolio and submit it along with their ARM Application (See Appendix B) once they have satisfied coursework and manuscript requirements.

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# Graduate Certificate in Education & Social Sciences Advanced Research Methods Intent Form

This form is for students who have an interest in completing the CEHD Graduate Certificate in Education & Social Sciences Advanced Research Methods**.** In consultation with your committee chair (if applicable) and graduate advisor, discuss and select **four (4)** additional research methods courses for 12-credit hours total to be included in your degree plan. It is the student’s responsibility to verify course availability the semester prior to enrollment.

[Click here to complete the online ARM Intent Form.](https://tamucehd.qualtrics.com/jfe/form/SV_dbU9rQtpiD73qTQ)

Advanced Research Methods (ARM) – Certificate Approved Courses\* +

|  |  |  |
| --- | --- | --- |
| **Educational Administration and Human Resource Development** | | |
| EDAD 623 | Advanced Fieldwork Methods | 3 |
| EHRD 656 | Narrative Analysis | 3 |
| EHRD 657 | Life History Research | 3 |
| **Educational Psychology** | | |
| EPSY 625 | Advanced Psychometric Theory | 3 |
| EPSY 637 | Grounded Theory Methodology | 3 |
| EPSY 642 | Meta-Analysis of Behavioral Research | 3 |
| EPSY 643 | Applied Multivariate Methods | 3 |
| EPSY 650 | Multiple Regression and Other Linear Models in Education Research | 3 |
| EPSY 651 | Theory of Structural Equation Modeling | 3 |
| EPSY 652 | Theory of hierarchical Linear Models | 3 |
| EPSY 653 | Advanced Structural Equation Modeling | 3 |
| EPSY 654 | Longitudinal Data Analysis | 3 |
| EPSY 655 | Item Response Theory | 3 |
| EPSY 660 | Single Case Experimental Design Research Methodology | 3 |
| EPSY 661 | Data Analysis for Single-Case Experimental Design in Educational Research | 3 |
| EPSY 656 | Survey Instrument Development | 3 |
| **Teaching, Learning, and Culture** | | |
| EDCI 627 | Teaching and Learning Data Analysis and Uncertainty Concepts | 3 |
| EDCI 628 | Analyzing and Reporting Field Based Research | 3 |
| EDCI 661 | Mixed Methods Research in Curriculum and Instruction | 3 |
| EDCI 688 | Research Methods in EDCI III | 3 |
| EDCI 706 | Narrative Inquiry in Curriculum and Instruction I | 3 |
| EDCI 707 | Narrative Inquiry in Curriculum and Instruction II | 3 |

Certificate Course Policies

* Students may complete any approved courses of their own choosing. It is the student’s responsibility to verify course availability prior to planned enrollment.
* Students are allowed to apply for the certificate before, while in progress, or after completing coursework.
* Students must perform at a satisfactory level in all research methods courses; grades lower than a *B* and (*U* grades) will not be accepted for certificate courses.
* Enrollment in the advanced courses will require the completion of established prerequisites where applicable (designated in the *Texas A&M University Graduate and Professional Catalog*) and/or the approval of the course instructor and the student’s dissertation committee chair/faculty advisor.
* Students must complete **at least three** (3) of the four courses in a face-to-face delivery format. Students are only allowed to complete a maximum of **one** three-credit hour course in an online delivery format.
* Under rare circumstances, students may petition the CEHD Graduate Instruction Council to take a course not listed above to suffice ARM requirements. **Prior to** planned course enrollment, students must receive approval from the CEHD Graduate Instruction Committee, which deems whether a request is considered an **advanced** research methods course. The committee will not consider course requests while a student is currently enrolled in the course or after the student has completed the course. This policy applies to courses at TAMU that are outside of CEHD and courses external of the university.

Student Certificate Research Portfolio

* A copy of the manuscript of original research in which the student is listed **as an author**. The manuscript **must** use elements of methodological processes gained from **one or more** of the courses taken for the ARM certificate. While what constitutes as research-based reporting may vary across fields, journal articles formatted as commentaries, letters-to-the-editor, teaching tips, or non-systematic reviews of the literature are **not** eligible to fulfill the ARM journal article submission requirement. Additionally, book chapters will not be accepted. Systematic literature reviews and meta-analyses do count, however. The submitted article can come from the student's thesis or dissertation, or a paper written for class.
* 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. See specific criteria below.
* Portfolio format includes:
* Title page that includes name, college, department, program, and committee chair
* Table of Contents
* Manuscript submitted for publication.
* Evidence of journal submission
* Two-page reflective essay
* The portfolio will be scored using the Advanced Research Methods Certificate Rubric. (See Appendix C).
* Students will submit their portfolio along with an ARM application to [ARMcertificate@tamu.edu.](mailto:ARMcertificate@tamu.edu.)

Integrative Reflection Essay

Reflect on the research manuscript you submitted for publication. Briefly describe your research in lay terms. 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?

**Format:** The reflection should be a maximum of two-pages, 12-point font, double-spaced.

Certificate Application Process

* 1. Complete all certificate requirements.
     + 12 hours of approved coursework
     + Student Research Certificate Portfolio
     + Two-page Integrative Reflection Essay
  2. Complete the [ARM Certificate Application](https://education.tamu.edu/wp-content/uploads/2024/09/ARM-Application-PDF-Final-9.10.2024.pdf).
  3. Submit your portfolio and application to [ARMcertificate@tamu.edu](mailto:ARMcertificate@tamu.edu).

# ARM Application

[A close-up of a certificate

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This application is available online at [ARM-Application-PDF-Final-9.10.2024.pdf (tamu.edu)](https://education.tamu.edu/wp-content/uploads/2024/09/ARM-Application-PDF-Final-9.10.2024.pdf).

# ARM Portfolio Rubric

