Texas A&M University
Request for a Change in Curriculum
Undergraduate • Graduate • Professional

1. Program request type:  
   ☐ Undergraduate  ☑ Graduate  ☐ First Professional (ex. DVM, JD, MD, etc.)

2. Request change for:  
   ☐ Degree Program  ☐ Minor  ☑ Certificate

3. Request submitted by (Department or Program Name):  
   College of Education and Human Development

   Program Designation and Name  
   Education and Social Sciences Advanced Research Methods Certificate

4. (e.g., B.A. in History, Minor in History, Certificate in European Union):  
   Remove the three EDCI 689 courses currently listed.  
   Add the following courses: EPSY 637, EPSY 650, EPSY 652, EPSY 653, EPSY 654, EPSY 655, EPSY 656, EDCI 628, EHRD 690 (Statistics III), and HLTH 689.

5. Brief description of change:  
   The previous course offerings were largely dates, included many 689 courses, and did not include many of the advanced statistics and research methods courses the college currently offers.

6. Rationale for change:  

   Use the checkboxes below to make sure that all information is included.

7. a. Proposed curriculum attached.  
   Yes ☑ No ☐

   b. Current catalog curriculum with handwritten edits attached.  
   Yes ☑ No ☐

   c. Current Howdy degree evaluation with handwritten edits attached.  
   Yes ☑ No ☐

   Please make sure the attached proposed curriculum, catalog and Howdy degree evaluation match.

8. a. Will degree program hours change (increase/decrease) due to the proposed curriculum changes?  
   Yes ☑ No ☐

   b. If yes, degree program hours will change from:  

   c. If yes, is the Texas Higher Education Coordinating Board form attached?  
   Yes ☑ No ☐

   http://www.thecb.state.tx.us/index.cfm?objectid=A0F9F7FA-9A92-4F11-2756AD3BBFF01D60

9. If proposed changes affect other unit(s), are letters of support attached?  
   Yes ☑ No ☐

IMPORTANT NOTE: Curriculum changes submitted through the approval process and fully approved by February (December-UCC/GC, January-Faculty Senate, February-President) will be effective in the next academic year. Changes requiring approval beyond the University should complete the internal approval process early in the fall semester whenever possible in order to ensure timely implementation.

Approval recommended by:

George Cunningham
Department Head or Program Chair (Type Name & Sign)
Date 10/14/15

George Cunningham
Dean of College
Date 10/14/15

Chair, College Review Committee
Date 10/14/15

Chair, GC or UCC
Date

Questions regarding this form should be directed to Curricular Services at 845-8201 or sandra-williams@itemu.edu.
Curricular Services – 04/14
MEMORANDUM

TO: Graduate Council

FROM: George B. Cunningham, PhD
Associate Dean, College of Education and Human Development

RE: Proposal for Change in Curriculum to the Education and Social Sciences Advanced Research Methods (ARM) Certificate

Attached, please find the paperwork for revising the courses required for the Educational and Social Sciences Advanced Research Methods (ARM) certificate. The Graduate Instruction Council in the college voted to:

1. Remove several courses from the list, all of which were listed as 689 at the time the certificate was approved
   a. EDCI 689: Special topics in... (Advanced Research Methods in EDCI)
   b. EDCI 689: Special topics in... (Advanced Research Methods in Qualitative Research)
   c. EDCI 689: Special topics in... (Models and Methods of Curriculum Evaluation)

2. Add several courses from which students can choose in order to satisfy the certificate requirements. All of the courses focus on advanced analytical or methodological concepts:
   a. EPSY 637: Qualitative Grounded Theory Methodologies
   b. EPSY 650: Multiple Regression and other Linear Models in Education Research
   c. EPSY 652: Theory of hierarchical Linear Models
   d. EPSY 653: Advanced Structural Equation Modeling
   e. EPSY 654: Longitudinal Data Analysis
   f. EPSY 655: Item Response Theory
   g. HLTH 689: Special topics in... (System Thinking and Complexity in Population Health)
   h. EDCI 628: Analyzing and Reporting Field Based Research
   i. EDCI 688: Research Methods in EDCI III
   j. EHRD 690: Theory of Educational Human Resource Development Research (Part III)

We appreciate your consideration. Please contact us should you require additional information.
Offered by the College of Education and Human Development (CEHD), a Graduate Certificate in Education and Social Sciences Advanced Research Methods allows students in the College of Education and Human Development to add to their degree’s minimum requirements for training in research methodology. 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 Certificate requires 12 hours of advanced research methods courses, identified as such by the CEHD’s Research Certificate Committee. Enrollment in these advanced courses will require the completion of established prerequisites (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. As part of the certificate completion requirements, students will provide evidence of submission of a manuscript for publication as the main author, or as a co-author. As a first step in applying for the Certificate, graduate students should contact their dissertation or program Chair(s).

Program Requirements

Certificate Requirements

Select 4 advanced Quantitative or Qualitative (or mixed methods) Research Methods Courses

Required for Completion: Evidence of submission of an article, for publication in a peer-reviewed journal, as main author or co-author

Current Research Methods Requirements by Departmental Programs for Ph.D. Degrees

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>Minimum Research Methods Requirement in credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching, Learning and Culture</td>
<td>15 hours</td>
</tr>
<tr>
<td>Educational Administration and Human Resource Development</td>
<td>18 hours</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>15 hours</td>
</tr>
<tr>
<td>Health and Kinesiology</td>
<td>9-18 hours</td>
</tr>
</tbody>
</table>

CEHD Courses Approved for Certificate

Teaching, Learning and Culture

EDCI 627  Teaching and Learning Data Analysis and Uncertainty Concepts  3
EDCI 669  Special Topics in... (Advanced Research Methods in EDCI)  3
EDCI 630  Special Topics in... (Advanced Research Methods in Qualitative Res)  3
EDCI 889  Special Topics in... (Models and Methods of Curriculum Evaluation)  3
EDCI 661  Mixed Methods Research in Curriculum and Instruction  3

Educational Administration & 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 642  Meta-Analysis of Behavioral Research  3
EPSY 643  Applied Multivariate Methods  3
EPSY 651  Theory of Structural Equation Modeling  3
Education and Social Sciences Advanced Research Methods Certificate

Deleted Courses:
EDCI 689: Special topics in... (Advanced Research Methods in EDCI)
EDCI 689: Special topics in... (Advanced Research Methods in Qualitative Research)
EDCI 689: Special topics in... (Models and Methods of Curriculum Evaluation)

New Courses:
EPSY 637: Qualitative Grounded Theory Methodologies
EPSY 650: Multiple Regression and other Linear Models in Education Research
EPSY 652: Theory of hierarchical Linear Models
EPSY 653: Advanced Structural Equation Modeling
EPSY 654: Longitudinal Data Analysis
EPSY 655: Item Response Theory
HLTH 689: Special topics in... (System Thinking and Complexity in Population Health)
EDCI 628: Analyzing and Reporting Field Based Research
EDCI 688: Research Methods in EDCI III
EHRD 690: Theory of Educational Human Resource Development Research (Part III)
Education and Social Sciences Advanced Research Methods (ARM) – Certificate

Overview
Offered by the College of Education and Human Development (CEHD), a Graduate Certificate in Education and Social Sciences Advanced Research Methods allows students in the College of Education and Human Development to add to their degree’s minimum requirements for training in research methodology. 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 Certificate requires 12 hours of advanced research methods courses, identified as such by the CEHD’s Research Certificate Committee. Enrollment in these advanced courses will require the completion of established prerequisites (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 advisory. As part of the certificate completion requirements, students will provide evidence of submission of a manuscript for publication as the main author, or as a co-author. As a first step in applying for the Certificate, graduate students should contact their dissertation or program Chair(s).

Certificate Requirements
Select 4 advanced Quantitative or Qualitative (or mixed methods) Research Methods Courses (12 hours)
Required for Completion: Evidence of submission of an article, for publication in a peer-reviewed journal, as main author or co-author.

Current Research Methods Requirements by Departmental Programs for PhD Degrees

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>Minimum Research Methods Requirement in credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching, Learning, and Culture</td>
<td>15 hours</td>
</tr>
<tr>
<td>Educational Administration and Human</td>
<td>18 hours</td>
</tr>
<tr>
<td>Resource Development</td>
<td></td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>15 hours</td>
</tr>
<tr>
<td>Health and Kinesiology</td>
<td>9-18 hours</td>
</tr>
</tbody>
</table>

CREHD Courses Approved for Certificate

Educational Administration and Human Resource Development

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAD 623</td>
<td>Advanced Fieldwork Methods</td>
<td>3</td>
</tr>
<tr>
<td>EHRD 656</td>
<td>Narrative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EHRD 657</td>
<td>Life History Research</td>
<td>3</td>
</tr>
<tr>
<td>EHRD 690</td>
<td>Theory of Educational Human Resource</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Development Research (Part III)</td>
<td></td>
</tr>
</tbody>
</table>
### Educational Psychology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPSY 625</td>
<td>Advanced Psychometric Theory</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 637</td>
<td>Grounded Theory Methodology</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 642</td>
<td>Meta-Analysis of Behavioral Research</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 643</td>
<td>Applied Multivariate Methods</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 650</td>
<td>Multiple Regression and Other Linear Models in Education Research</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 651</td>
<td>Theory of Structural Equation Modeling</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 652</td>
<td>Theory of hierarchical Linear Models</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 653</td>
<td>Advanced Structural Equation Modeling</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 654</td>
<td>Longitudinal Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 655</td>
<td>Item Response Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

### Health and Kinesiology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 689</td>
<td>Special topics in... (System Thinking and Complexity in Population Health)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Teaching, Learning and Culture

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 627</td>
<td>Teaching and Learning Data Analysis and Uncertainty Concepts</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 628</td>
<td>Analyzing and Reporting Field Based Research</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 661</td>
<td>Mixed Methods Research in Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 688</td>
<td>Research Methods in EDCI III</td>
<td>3</td>
</tr>
</tbody>
</table>