

**SAMPLE Ed.D UH4-8MMT (Master Mathematics Teacher) Certification Degree Plan**

Group A: Core Area (21 hours) . 2 required research methods in education courses, 3 additional research methods courses selected by student and advisor from an approved department list. 1 EPSY core course selected by student and advisor from approved list. 1 CUST core course selected by student and advisor from approved list.	Semester/Year	Hours*	<p style="text-align: center;"><b>Group A (College of Education Core)</b></p> <p><u>Approved Research Courses in the College of Education</u></p> <p><b>Introduction to Educational Research</b>  EDUC 8380 Research Methods in Education (required)  EDUC 8381 Research Methods in Education (required)</p> <p><b>Ethnographic Methods</b>  EDRS 8383 Action Research  SAER 8320 Ethnographic methods in Educational Research</p> <p><b>Survey Methods</b>  SAER 8321 Survey Methods in Educational Research</p> <p><b>Measurement</b>  EPSY 8300 Advanced Educational and Psychological Measurement  EPSY 8301 Measurement of Attitudes in Educational Research  EPSY 8323 Factor Analysis Methods in Educational Research  EPSY 8327 Measuring Change and Analyzing Repeated Measures – Experimental Designs in Ed Res.</p> <p><b>Experimental Design</b>  EPSY 8321 Linear Models in Educational Research  EPSY 8325 Design and Analysis of Educational Experiments</p> <p><b>Statistics</b>  EDRS 8382 Statistical Analyses in Educational  EPSY 8322 Inferential Statistics in Educational Research  EPSY 8324 Multivariate Analysis in Educational Research  EPYS 8326 Nonparametric and Distribution-Free Statistics in Educational Research</p> <p><b>Program Evaluation</b>  SAER 8370 Program Evaluation Research</p> <p><u>Psychological Foundations (select one)</u>  EPSY 8333 Theories of Human Development  EPSY 8340 Basic Learning Theories  EPSY 8342 Seminar in Learning Theory  EPSY 8350 Educational Psychology  EPSY 8352 Social Psychological Process</p> <p><u>Social, Historical and Philosophical Foundations (select one):</u>  CUST 8360 Comparative Education  CUST 8370 Origins of Modern Educational Thought  CUST 8378 Current Issues in Education  CUST 8380 Philosophy of Education</p>
1. EDRS 8380: Research Methods in Education 2. EDRS 8381: Research Methods in Education 3. Research methods course 4. Research methods course 5. Research methods course 6. EPSY core course 7. CUST core course	required required     	3R 3R 3R 3R 3 3	
Group B: Area of Program Emphasis. 4 required Curriculum and Instruction courses. 2 required mathematics education courses. 1 CUIIN course selected by student and advisor; 3 mathematics education courses selected by student and advisor 1. CUIIN 8345: Doctoral Residency Seminar 2. CUIIN 8360: Issues in Curriculum and Instruction 3. CUIIN 8393: Advanced Intern & Pract in C&I 4. CUIIN 8398: Special Problems 5. CUIIN 7332: Models of Teaching and Learning Math 6. <b>CUIIN 7340: Issues in Mathematics Education</b> 7. <b>CUIIN 6397: Developing Number Concepts</b> 8. <b>CUIIN 7333 Developing Algebraic Thinking</b> 9. <b>CUIIN 6340 Teach Geom Concepts/ Gr 6-12</b> Dissertation: CUIIN 8699	 required required required required required required required required required	 3 3 3 3 3 3 3 3 3 6	
Group C: Approved Electives (At least 12 Hours) 1. <b>CUIIN 6342 Teaching Prob &amp; Stats Grades 6-12</b> 2. ??? 3. ??? 4. ???	   	 3 3 3 3	
<p style="text-align: center;"><b>MUST TOTAL 60 HOURS + 6 DISS HOURS</b></p>		<p style="text-align: center;">66</p>	

**SAMPLE Ed.D UH4-8MMT Degree Plan - continued**

**Group B (Program Area Emphasis):**

Required: CUIIN 7332 (Models of Teaching and Learning Mathematics)  
CUIIN 7340 (Issues in Mathematics Education)

Mathematics Education Electives: Student and advisor select from:

- CUIIN 8325 Research in Mathematics Education
- CUIIN 6334 Mathematics for Young Children
- CUIIN 6340 Teach Geom Concepts/ Gr 6-12
- CUIIN 6341 Teaching Math Problem Solving
- CUIIN 6342 Teaching Prob & Stats Grades 6-12
- CUIIN 6344 Teaching Mathematics In Grades 4-8
- CUIIN 6346 Teaching Secondary Math with Technology

**Group C: Approved Electives – as determined by student and advisor.**

- CUIIN 6347 Teaching Math In Grades 7-12
- CUIIN 6397 Special Topics in Mathematics Education
- CUIIN 6398 Special Problems in Mathematics Education
- CUIIN 7333 Developing Algebraic Thinking
- CUIIN 7334 Developing Proportional Reasoning
- CUIIN 7341 Assessing Mathematical Understanding
- CUIIN 7342 Evaluation of Mathematics Programs
- CUIIN 7344 Teaching Problem Solving with Computers
- ELED 6335 Teaching Mathematics in the Elementary Grades