

**Mathematics Education Leadership
Ph.D. Cohort
Effective Fall 2008
Cohort 2008-2014**

**PROPOSED Program of Study Calendar
3/31/08**

SAMPLE	Fall	Spring	Summer
Year 1 2008-09	EDCI 855 Math Ed Res Tch Lrn (3cr) (2 nd Saturdays all year) EDUC 800 Ways of Know (3cr) EDUC 805 Doc Sem in Ed (1cr)	EDRS 810 Prob Meth Ed Res (3cr) EDUC 805 Doc Sem in Ed (1cr) MINOR Elective (3cr)	EDIT 772 Web Tools: "Portfolios" (2cr)
Year 2 2009-10	EDCI 856 Math Ed Curr Dsgn Eval (3cr) (2 nd Saturdays all year) EDUC 802 Ed Leadership (3cr) MINOR Elective (3cr)	EDRS 811 Quan Meth Ed Res (3cr) MINOR Elective (3cr)	
Year 3 2010-11	EDCI 857 Prep Prof Dev Math Tch (3cr) (2 nd Saturdays all year) EDRS 812 Qual Meth Ed Res (3cr)	EDCI 725 Ntl Int Ldr Iss Math Ed (3cr) (2 nd Saturdays all year) MINOR Elective (3cr)	
Year 4 2011-12	EDCI 858 Math Ed Res Dsgn Eval (3cr) (2 nd Saturdays all year) EDRS Research Elective (3cr)	EDCI 726 St Ldr Iss Math Ed (3cr) (2 nd Saturdays all year) EDUC 994 Adv Intern in Ed (3cr)	
Year 5 2012-13	EDUC 998 Diss Proposal Sem (3cr)	EDUC 999 Dissertation Research (3cr)	
Year 6 2013-14	EDUC 999 Dissertation Research (3cr)	EDUC 999 Dissertation Research (3cr)	

FINAL APPLICATIONS FOR FALL 2008 COHORT DUE - SEPT. 1, 2008.

Contact Dr. Patricia Moyer-Packenham (pmoyer@gmu.edu) for further information.

(*Note.* Next cohort begins Fall 2012.)

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General Culture (8 credits):

EDUC 800	Ways of Knowing	3cr.
EDUC 802	Educational Leadership Seminar	3cr.
EDUC 805	Doctoral Seminar in Education	2cr.

Educational Research (12 credits):

EDRS 810	Problems and Methods of Educational Research	3cr.
EDRS 811	Quantitative Methods of Educational Research	3cr.
EDRS 812	Qualitative Methods of Educational Research	3cr.
Research Elective	3cr. (can be taken concurrently with EDUC 998; choose ONE)	
	EDRS 820 Evaluation Methods for Educational Programs and Curricula	
	EDRS 821 Advanced Applications of Quantitative Methods	
	EDRS 822 Advanced Applications of Qualitative Methods	
	EDRS 823 Advanced Research Methods in Single Subject/Case Design	

Major Professional Specialization – Mathematics Education Leadership (21 credits):

EDCI 855	Mathematics Education Research on Teaching and Learning	3cr.
EDCI 856	Mathematics Education Curriculum Design and Evaluation	3cr.
EDCI 857	Preparation and Professional Development of Mathematics Teachers	3cr.
EDCI 858	Mathematics Education Research Design and Evaluation	3cr.
EDCI 725	National & International Leadership Issues in Mathematics Education	3cr.
EDCI 726	State & Local Leadership Issues in Mathematics Education	3cr.
EDUC 994	Advanced Internship in Education	3cr.

<i>Minor Specialization – Instructional Technology</i>	<i>Minor Specialization – Education Policy Studies</i>	<i>Minor Specialization – Mathematics (for those with limited mathematics background)</i>
(choose 12 credits)	(choose 12 credits in addition to EDIT 772)	
EDIT 772 Portfolio 2cr. (REQUIRED for MEL)	EDIT 772 Portfolio 2cr. (REQUIRED for MEL)	EDIT 772 Portfolio 2cr. (REQUIRED for MEL)
EDIT 705 Instructional Design	EDUC 870 Educational Policy: Process, Context, and Politics	MATH 600 (for K-8)
EDIT 746 Educational Technology & Assessment	EDUC 871 Advanced Policy Issues in Education	Number Systems & Number Theory
EDIT 747 Technology and Teacher Education	EDUC 872 Social Science Research and Education Policy (Students electing this course are strongly encouraged to do so after completing 9 hours of their research requirements)	Geometry & Measurement
EDIT 797 Educational Technology & Cognitive Science	EDUC 873 Education Policy: Comparative and International Perspectives	Probability & Statistics
EDIT 732 Advanced Instructional Design	EDUC 874 The Achievement Gap	Algebra & Functions
EDIT 772 Web Based Instructional Tools – “Intro HTML”	EDUC 875 Contemporary and Emerging Issues in Education Policy	Rational Numbers & Proportional Reason
EDIT 772 Web Based Instructional Tools – “Advanced HTML”		MATH (for 9-12)
		MATH 601 Analysis I
		MATH 602 Analysis II
		MATH 604 Geometry
		MATH 605 Discrete/finite Math
		MATH 607 Algebraic Structures

Dissertation (12 Credits):

EDUC 998	Dissertation Proposal Seminar	3cr.
EDUC 999	Dissertation Research	9cr.