## Mathematics Education Leadership

**Ph.D. Cohort**

**Effective Fall 2008**
**Cohort 2008-2014**

### PROPOSED Program of Study Calendar

3/31/08

<table>
<thead>
<tr>
<th>SAMPLE</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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</thead>
<tbody>
<tr>
<td>Year 1 2008-09</td>
<td><strong>EDCI 855 Math Ed Res Tch Lrn (3cr) (2nd Saturdays all year)</strong></td>
<td><strong>EDRS 810 Prob Meth Ed Res (3cr)</strong></td>
<td><strong>EDIT 772 Web Tools: “Portfolios” (2cr)</strong></td>
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<td></td>
<td><strong>EDUC 800 Ways of Know (3cr)</strong></td>
<td><strong>EDUC 805 Doc Sem in Ed (1cr)</strong></td>
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<td><strong>EDUC 805 Doc Sem in Ed (1cr)</strong></td>
<td><strong>MINOR Elective (3cr)</strong></td>
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<td>Year 2 2009-10</td>
<td><strong>EDCI 856 Math Ed Curr Dsgn Eval (3cr) (2nd Saturdays all year)</strong></td>
<td><strong>EDRS 811 Quan Meth Ed Res (3cr)</strong></td>
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<td><strong>EDUC 802 Ed Leadership (3cr)</strong></td>
<td><strong>MINOR Elective (3cr)</strong></td>
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<td><strong>MINOR Elective (3cr)</strong></td>
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<td>Year 3 2010-11</td>
<td><strong>EDCI 857 Prep Prof Dev Math Tch (3cr) (2nd Saturdays all year)</strong></td>
<td><strong>EDCI 725 Ntl Int Ldr Iss Math Ed (3cr) (2nd Saturdays all year)</strong></td>
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<td><strong>EDRS 812 Qual Meth Ed Res (3cr)</strong></td>
<td><strong>MINOR Elective (3cr)</strong></td>
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<td>Year 4 2011-12</td>
<td><strong>EDCI 858 Math Ed Res Dsgn Eval (3cr) (2nd Saturdays all year)</strong></td>
<td><strong>EDCI 726 St Ldr Iss Math Ed (3cr) (2nd Saturdays all year)</strong></td>
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<td><strong>EDRS Research Elective (3cr)</strong></td>
<td><strong>EDUC 994 Adv Intern in Ed (3cr)</strong></td>
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<td>Year 5 2012-13</td>
<td><strong>EDUC 998 Diss Proposal Sem (3cr)</strong></td>
<td><strong>EDUC 999 Dissertation Research (3cr)</strong></td>
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<td>Year 6 2013-14</td>
<td><strong>EDUC 999 Dissertation Research (3cr)</strong></td>
<td><strong>EDUC 999 Dissertation Research (3cr)</strong></td>
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**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.)
Mathematics Education Leadership: Ph.D. Cohort
Program of Study – Effective Fall 2008
Cohort 2008–2014
3/31/08

**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.

**Minor Specialization - Instructional Technology**
(choose 12 credits)

**Minor Specialization - Education Policy Studies**
(choose 12 credits in addition to EDIT 772)

**Minor Specialization - Mathematics (for those with limited mathematics background)**
(choose 12 credits)

- EDIT 772 Portfolio 2cr. (REQUIRED for MEL)
- EDIT 705 Instructional Design & Assessment
- EDIT 746 Educational Technology & Teacher Education
- EDIT 747 Technology and Teacher Education
- EDIT 797 Educational Technology & Cognitive Science
- EDIT 732 Advanced Instructional Design
- EDIT 772 Web Based Instructional Tools - "Intro HTML"
- EDIT 772 Web Based Instructional Tools - "Advanced HTML"
- EDU 870 Educational Policy: Process, Context, and Politics
- EDU 871 Advanced Policy Issues in Education
- EDU 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)
- EDU 873 Education Policy: Comparative and International Perspectives
- EDU 874 The Achievement Gap
- EDU 875 Contemporary and Emerging Issues in Education Policy
- MATH 600 (for K-8)
- 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.