Teacher Education, Secondary Mathematics BS / Teaching, Learning, and Curriculum MS - Drexel University

Program Requirements

General Education Requirements
CIVC 101 Introduction to Civic Engagement 3.0
COOP 101 Career Management and Professional Development 1.0
CS 150 Computer Science Principles 3.0
ECON 201 Principles of Microeconomics 4.0
ENGL 101 Composition and Rhetoric I: Inquiry and Exploratory Research 3.0
or ENGL 111 English Composition I 4.0
ENGL 102 Composition and Rhetoric II: Advanced Research and Evidence-Based Writing 3.0
or ENGL 112 English Composition II 3.0
ENGL 103 Composition and Rhetoric III: Themes and Genres 4.0
or ENGL 113 English Composition III 3.0
English elective course between 200-329 3.0
HIST 289 History of Science: Enlightenment to Modernity 4.0
PHIL 251 Ethics 3.0
PSY 101 General Psychology I 3.0
PSY 320 [WI] General Psychology II 3.0
UNIV 101 The Drexel Experience 1.0

Mathematics Requirements
MATH 121 Calculus I 4.0
MATH 122 Calculus II 4.0
MATH 123 Calculus III 4.0
MATH 200 Multivariate Calculus 4.0
MATH 201 Linear Algebra 4.0
MATH 205 Survey of Geometry 3.0
MATH 210 Differential Equations 4.0
MATH 220 [WI] Introduction to Mathematical Reasoning 3.0
MATH 221 Discrete Mathematics 3.0
MATH 311 Probability and Statistics I 3.0
MATH 312 Probability and Statistics II 3.0
MATH 331 Abstract Algebra I 4.0

Science Requirements
BIO 107 Cells, Genetics & Physiology 3.0
BIO 108 Cells, Genetics and Physiology Laboratory 1.0
BIO 109 Biological Diversity, Ecology & Evolution 3.0
BIO 110 Biological Diversity, Ecology and Evolution Laboratory 1.0
CHEM 101 General Chemistry I 3.5
CHEM 102 General Chemistry II 4.5
ENVS 260 Environmental Science and Society 3.0
PHYS 101 Fundamentals of Physics I 4.0
PHYS 102 Fundamentals of Physics II 4.0

Pedagogy Requirements
EDEX 142 Special Education Foundations: Referral and Assessment 3.0
EDEX 344 Inclusionary Practices for Exceptional Students 3.0
EDEX 368 Literacy and Content Skill Development PK-12 3.0
EDLT 325 Design for Learning with Digital Media 3.0
EDLT 326 Technology Applications for Learning 3.0
EDUC 101 Foundations in Education I: A Historical and Philosophical Perspective 3.0
EDUC 106 First Year Seminar: A Case of Schools and Cities 1.0
EDUC 107 First Year Seminar: Exploring Pedagogies 1.0
EDUC 108 First Year Seminar: Designing Learning Spaces 1.0
EDUC 113 Organizational Structure of Secondary Schools 3.0
EDUC 123 Adolescent Development 3.0
EDUC 205 Sophomore Pedagogy Seminar 1.0
EDUC 216 Diversity and Today’s Teacher 3.0
EDUC 223 Teaching the Middle School Child 3.0
EDUC 305 [WI] Junior Pedagogy Seminar 1.0
EDUC 308 Creating a Positive Classroom Climate 3.0
EDUC 312 Educational Policy, Law & Advocacy 3.0
EDUC 316 Teaching in Urban Contexts 3.0
EDUC 332 Evaluation of Instruction 3.0
EDUC 334 Current Research in Curriculum & Instruction 3.0
EDUC 365 Foundations in Instructing English Language Learners 3.0
EDUC 405 Senior Pedagogy Seminar 1.0
MTED 419 Teaching Secondary Mathematics 3.0
MTED 428 Cultural and Historical Significance of Mathematics 3.0

Student Teaching Experience
EDUC 409 Student Teaching Seminar I 9.0
EDUC 410 [WI] Student Teaching 9.0

MS in TLC Core
EDAM 714 Instructional and Curriculum Leadership 3.0
EDLT 532 Designing Virtual Communities for Staff Development - Non-Field Experience 3.0
EDUC 524 Current Research in Curriculum & Instruction 3.0
EDUC 530 Advanced Techniques in Instruction & Assessment 3.0
EDUC 609 Language & Culture in Education 3.0

Policy, Law & Organization Courses (Choose 2) 3.0
EDPO 620 Education Policy: Concepts, Issues, and Applications 3.0
or EDAM 705 School Law and Politics 3.0
or EDUC 804 Program Evaluation in Organizations 3.0

MS in TLC Capstone Sequence
EDU 780 Capstone Research 3.0
EDUL 780 Lesson Study Capstone Course I 3.0
or EDUT 780 Thesis Capstone Course I 3.0
or EDUP 780 Practitioner Capstone Course I 3.0
EDUL 781 Lesson Study Capstone Course II 3.0
or EDUT 780 Thesis Capstone Course I 3.0
or EDUP 780 Practitioner Capstone Course I 3.0

Professional or Concentration Electives 15.0
Total Credits 230.0

Sample Plan of Study

4 year, 1 co-op

First Year
Fall Credits Winter Credits Spring Credits Summer Credits
EDUC 101 3.0 CIVC 101 1.0 BIO 107 3.0 VACATION 1.0
EDUC 106 1.0 EDUC 107 1.0 BIO 108 1.0
ENGL 101 3.0 EDUC 113 3.0 EDUC 142 3.0
or 111
MATH 121 4.0 ENGL 102 3.0 EDUC 108 1.0
or 112
PSY 101 3.0 MATH 122 4.0 EDUC 123 3.0
PSY 111 3.0 MATH 111 4.0 EDUC 123 3.0
UNIV 101 1.0 PHIL 251 3.0 ENGL 103 3.0
or 113
MATH 123 4.0

Second Year
Fall Credits Winter Credits Spring Credits Summer Credits
COOP 101 1.0 ECON 201 4.0 CHEM 101 3.5 BIO 109 3.0

15 15 18 0
### Third Year

<table>
<thead>
<tr>
<th></th>
<th>Fall Credits</th>
<th>Winter Credits</th>
<th>Spring Credits</th>
<th>Summer Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP EXPERIENCE</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
<td>12.0</td>
</tr>
<tr>
<td>MTED 419</td>
<td>3.0</td>
<td>EDUC 316</td>
<td>3.0</td>
<td>3.0</td>
<td>6.0</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>4.0</td>
<td>MATH 220</td>
<td>3.0</td>
<td>3.0</td>
<td>6.0</td>
</tr>
<tr>
<td>(GR) MS Professional Elective</td>
<td>3.0</td>
<td>(GR) MS Professional Elective</td>
<td>3.0</td>
<td>3.0</td>
<td>6.0</td>
</tr>
</tbody>
</table>

|       | 19 | 14 | 17.5 | 17.5 | 78.5 |

### Fourth Year

<table>
<thead>
<tr>
<th></th>
<th>Fall Credits</th>
<th>Winter Credits</th>
<th>Spring Credits</th>
<th>Summer Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 409</td>
<td>9.0</td>
<td>EDUC 410</td>
<td>9.0</td>
<td>EDUC 405</td>
<td>1.0</td>
</tr>
<tr>
<td>MATH 331</td>
<td>4.0</td>
<td>MATH 311</td>
<td>4.0</td>
<td>ENGL 200</td>
<td>3.0</td>
</tr>
<tr>
<td>EDAM 705, or EDUC 804</td>
<td>3.0</td>
<td>EDLT 532</td>
<td>3.0</td>
<td>ENVS 260</td>
<td>3.0</td>
</tr>
</tbody>
</table>

|       | MATH 312 | 4.0 | PSY 320 | 3.0 | EDAM 714 | 3.0 |

Student converts to Grad status at the end of the Spring term.

|       | 16 | 16 | 17 | 9 | 70 |

### Fifth Year

<table>
<thead>
<tr>
<th></th>
<th>Fall Credits</th>
<th>Winter Credits</th>
<th>Spring Credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 780</td>
<td>3.0</td>
<td>EDUL 780, EDUT 780, or EDUP 780</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 609</td>
<td>3.0</td>
<td>(GR) MS Professional Elective</td>
<td>3.0</td>
<td>(GR) MS Professional Elective</td>
</tr>
<tr>
<td>(GR) MS Professional Elective</td>
<td>3.0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 230