

## BA in Math with DragonsTeach Concentration

\* Dragons Teach Courses in Blue

### General Education Requirements

|           |  |   |
|-----------|--|---|
| COM 230   | Techniques of Speaking                                 | 3 |
| ENGL 101  | Composition and Rhetoric I: Inquiry and Exploratory    | 3 |
| ENGL 102  | Composition and Rhetoric II: The Craft of Persuasion   | 3 |
| ENGL 103  | Composition and Rhetoric III: Thematic Analysis Across | 3 |
| UNIV 101  | The Drexel Experience                                  | 2 |
| UNIV S201 | Looking Forward: Academics and Careers                 | 1 |

### Computer Science Sequence

|          |                          |   |
|----------|--------------------------|---|
| Option 1 | CS140, CS 143, & CS 171  | 9 |
| Option 2 | CS 140, CS 171, & CS 172 |   |

### Science Electives

|                               |  |   |
|-------------------------------|--|---|
| Any BIO, CHEM or PHYS courses |  | 8 |
|-------------------------------|--|---|

### Humanities Electives

|                        |  |   |
|------------------------|--|---|
| Humanities Courses (2) |  | 6 |
|------------------------|--|---|

### International Studies Electives

|                                   |  |   |
|-----------------------------------|--|---|
| International Studies Courses (2) |  | 6 |
|-----------------------------------|--|---|

### Social Science Electives

|          |   |     |
|----------|---|-----|
| ESTM 201 | STEM Teacher Education Prep (STEP 1)            | 1.5 |
| ESTM 210 | STEM Teacher Education Prep (STEP 2)            | 1.5 |
| ESTM 301 | Knowing, Learning, and Classroom Interactions I | 3   |

### Studies in Diversity Electives

|  |  |   |
|--|--|---|
| Diversity Courses  |  | 6 |
| <i>Diversity and Today's Teacher is a recommended course</i> |  |   |

### Mathematics Requirements

|          |  |   |
|----------|--|---|
| MATH 121 | Calculus I *                           | 4 |
| MATH 122 | Calculus II                            | 4 |
| MATH 123 | Calculus III                           | 4 |
| MATH 200 | Multivariate Calculus                  | 4 |
| MATH 201 | Linear Algebra                         | 4 |
| MATH 210 | Differential Equations                 | 4 |
| MATH 220 | Introduction to Mathematical Reasoning | 3 |
| MATH 331 | Abstract Algebra I                     | 4 |

### Math Track(Track 5)

|          |                               |   |
|----------|-------------------------------|---|
| MATH 205 | Survey of Geometry            | 3 |
| MATH 311 | Probability and Statistics I  | 4 |
| MATH 312 | Probability and Statistics II | 4 |

### Additional Math Requirements

|          |                                |   |
|----------|--------------------------------|---|
| MATH 221 | Discrete Mathematics           | 3 |
| MATH 332 | Abstract Algebra II            | 3 |
| MATH 401 | Elements of Modern Analysis I  | 3 |
| MATH 402 | Elements of Modern Analysis II | 3 |

**Math Related Courses**

|          |                                 |   |
|----------|---------------------------------|---|
| ESTM 360 | Perspective on Science and Math | 3 |
| ESTM 370 | Functions & Modeling            | 4 |

**Free Electives**

|                             |   |     |
|-----------------------------|---|-----|
| ESTM 302                    | Knowing, Learning, and Classroom Interactions II  | 3   |
| ESTM 303                    | Knowing, Learning, and Classroom Interactions III | 3   |
| ESTM 350 (PBI)              | Project Based Instruction                         | 3   |
| ESTM 351 (PBI Lab)          | Project Based Instruction Lab                     | 1.5 |
| ESTM 371 (Research Methods) | Research Methods                                  | 4   |
| EDEX 142                    | Spec Ed Foundations: Referral & Assessment        | 3   |
| EDEX 244                    | Inclus Practice for Exceptional Students          | 3   |
| EDEX 265                    | Instructing Eng Lang Learners                     | 3   |
| ESTM 401                    | Apprentice Teaching & Seminar                     | 6   |

Additional Electives 37.5

**Total Credits 184**