

## Math Course Planner for 5-Year Urban Secondary Education Students

*The College of New Jersey*

*School of Education ~ Dept. of Educational Administration and Secondary Education - Fall 2024*

*5-Year Course Sequence (for Math Majors only) (starting in PreCalc)*

**Urban Secondary Education**

**(boxes in yellow represent courses in the Urban Education program)**

### Year 1

| <i>Fall</i>                      |                                      | <i>Spring</i>  |                                      |
|----------------------------------|--------------------------------------|--|--------------------------------------|
| <i>Course</i>                    | <i>Goal</i>                          | <i>Course</i>  | <i>Goal</i>                          |
| FYS1XX First Seminar (CC)        | FYS                                  | SED 099 College Seminar  | Secondary Education                  |
| MAT 099 Math Dept Orientation    |                                      | EFN 299 Introduction to Urban Education/Schools, Community & Culture (field placement) | Urban Education                      |
| MAT 120 PreCalculus              | Prerequisite                         | MAT 127 Calculus A   | Content Major Requirement            |
| CSC 220/MAT 270 Computer Science | Content Major Requirements           | MAT 200 Proof Writing through Discrete Mathematics                                     | Content Major Requirement            |
| SPA 101                          | Urban Education/Language Requirement | SPA 102  | Urban Education/Language Requirement |

### Year 2

| <i>Fall</i>  |                                      | <i>Spring</i>                                    |                            |
|--|--------------------------------------|--|----------------------------|
| <i>Course</i>  | <i>Goal</i>                          | <i>Course</i>                                    | <i>Goal</i>                |
| MAT 128 Calculus B   | Content Major Course                 | MAT 229 Multivariable Calculus                   | Content Major Course       |
| STA 216 Statistical Inference & Probability (fall only)    | Content Major Requirements           | SED 224 Adolescent Development (field placement) | Secondary Education        |
| SPA 103  | Urban Education/Language Requirement | MAT 205 Linear Algebra                           | Content Major Course       |
| SPE 103: Social and Legal Foundations of Special Education | Secondary Education                  | MAT 301 Number Theory                            | Content Major Requirements |
| BIO 201, CHE 201, or PHY 201                               | College Core                         |  |                            |

### Year 3

| Fall   |                      | Spring   |                      |
|--|----------------------|--|----------------------|
| Note: You must select your Urban Concentration (TESL, Special Education, or Literacy) in your 3rd year. See the “Urban Concentrations” document for details. |                      |  |                      |
| Course   | Goal                 | Course   | Goal                 |
| MTT 380 Methods of Teaching Mathematics I (fall only)  | Content Major Course | MAT/STA Option   | Content Major Course |
|  |                      | MAT 255 Perspectives on the Development of Mathematics (spring only) | Content Major Course |
| MAT 351 Geometry (fall only)   | Content Major Course | EFN 398 Historical and Political Context of Schools                  | Urban Education      |
| MAT 305 Abstract Algebra (fall only)   | Content Major Course | L,V,PA course  | College Core         |
| EFN 427 Critical Pedagogy  | Urban Education      |  |                      |
| Elective   | Elective             |  |                      |

#### Year 4

| Fall  |                               | Spring   |                             |
|---|-------------------------------|--|-----------------------------|
| <i><b>Note:</b> Students who choose a TESL concentration will take ESLM 545 &amp; ESLM 579 in the Spring (instead of ESLM 587) and will need to overload in the Spring if they need to take both MAT/STA courses.</i> |                               |  |                             |
| Course  | Goal                          | Course   | Goal                        |
| <i>SED 399 Pedagogy in Schools (field placement)</i>  | <i>Professional Education</i> | <i>EFN 357 Investigating Systemic Inequalities Impacting Urban Education (field placement)</i> | <i>Urban Education</i>      |
| <i>MTT 390 Discipline-Specific Methods (fall only)</i>  | <i>Professional Education</i> | <i>MAT 310 Real Analysis, MAT 316 Probability, or MAT 326 Differential Equations</i>           | <i>Content Major Course</i> |
| <i>RAL 328 Reading in Secondary Education</i>   | <i>Professional Education</i> | <i>ESLM 587 Curriculum &amp; Methods/Multilingual Population (3)</i>                           | <i>Urban Education</i>      |
| <i>SPE 322 Inclusive Practices</i>  | <i>Professional Education</i> | <i>MAT 497 Topics in Secondary Mathematics from an Advanced Viewpoint (spring only)</i>        | <i>Content Major Course</i> |

*SUMMER COURSES: Concentration Course Requirements (2 courses) OR do as overload during undergrad*

### Year 5

| <i>Fall</i>  |                               | <i>Spring</i>  |                                   |
|--|-------------------------------|--|-----------------------------------|
| <i>Course</i>  | <i>Goal</i>                   | <i>Course</i>  | <i>Goal</i>                       |
| <i>SCED 695: Internship II (Student Teaching) (6)</i>                  | <i>Professional Education</i> | <i>EDFN 508 Introduction to Teacher Research (3)</i> | <i>Professional Education</i>     |
| <i>SCED 667: Capstone (3) - cross listed with 498 in content areas</i> | <i>Professional Education</i> | <i>EDFN 611 Working within Urban Communities (3)</i> | <i>Urban Education Capstone</i>   |
|  |                               | <i>SCED 700: Comprehensive Exam (0 credits)</i>      | <i>Co-Requisite with EDFN 611</i> |
|  |                               | <i>Concentration Course (3)</i>                      | <i>Urban Graduate</i>             |
|  |                               | <i>Concentration Course (3)</i>                      | <i>Urban Graduate</i>             |

- *Students are encouraged to take courses during the May or summer semester.*
- *The information literacy goal is met through a college-wide experience.*
- *This course sequence is a recommended sequence, except for your foundation courses which have to be taken as suggested.*