

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 2022

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

Urban Secondary Education

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

Year 1

Fall		Spring	
Course	Goal	Course	Goal
FYW 102 Academic Writing or FYS1XX First Seminar (LL) MAT 099 Math Dept Orientation	<i>FYS</i>	<i>SED 099 College Seminar</i>	<i>Secondary Education</i>
		<i>EFN 299 Introduction to Urban Education/Schools, Community & Culture (field placement)</i>	<i>Urban Education</i>
<i>MAT 127 Calculus A</i>	<i>Liberal Learning/Content Major Requirements</i>	<i>MAT 128 Calculus B</i>	<i>Liberal Learning/Content Major Requirements</i>
<i>CSC 220 Computer Science</i>	<i>Content Major Requirements</i>	<i>MAT 200 Proof Writing through Discrete Mathematics</i>	<i>Content Major Requirements</i>
<i>2nd language (Spanish recommended) 101</i>	<i>Urban Education/Language Requirement</i>	<i>FYS 1XX or SPA 102</i>	<i>Urban Education/Language Requirement</i>

Year 2

Fall		Spring	
Course	Goal	Course	Goal
<i>MAT 229 Multivariable Calculus</i>	<i>Content Major Course</i>	<i>STA 216 Statistical Inference & Probability (Spring only)</i>	<i>Content Major Course</i>
<i>MAT 205 Linear Algebra</i>	<i>Content Major Requirements</i>	<i>SED 224 Adolescent Development (field placement)</i>	<i>Secondary Education</i>
<i>SPA 102 or SPA 103</i>	<i>Urban Education/Language Requirement</i>	<i>MAT 301 Number Theory</i>	<i>Content Major Requirements</i>
<i>SPE 103: Social and Legal Foundations of Special Education</i>	<i>Secondary Education</i>	<i>BIO 201, CHE 201, or PHY 201</i>	<i>Liberal Learning</i>
<i>L, V, PA course</i>	<i>Liberal Learning</i>		

Year 3

<i>Fall</i>		<i>Spring</i>	
<i>Note: You must select your Urban Concentration (TESL, Special Education, or Literacy) in your 3rd year. See the "Urban Concentrations" document for details.</i>			
<i>Course</i>	<i>Goal</i>	<i>Course</i>	<i>Goal</i>
<i>MTT 380 Methods of Teaching Mathematics I (fall only)</i>	<i>Content Major Course</i>	<i>MAT 310 Real Analysis</i>	<i>Content Major Course</i>
<i>MAT 351 Geometry</i>	<i>Content Major Course</i>	<i>MAT 255 Perspectives on the Development of Mathematics (spring only)</i>	<i>Content Major Course</i>
<i>ELE 302/Intro to Teacher Research</i>	<i>Professional Education</i>	<i>398 Historical and Political Context of Schools SChP course</i>	<i>Urban Education</i>
<i>MAT 305 Abstract Algebra</i>	<i>Content Major course</i>	<i>EFN 357 Investigating Systemic Inequalities Impacting Urban Education (new undergraduate course) (field placement)</i>	<i>Urban Education</i>

Year 4

<i>Fall</i>		<i>Spring</i>	
<i>Note: Students who choose a TESL concentration will take ESLM 545 & 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>			
<i>Course</i>	<i>Goal</i>	<i>Course</i>	<i>Goal</i>
<i>SED 399 Pedagogy in Schools (field placement)</i>		<i>MAT/STA Option</i>	<i>Content Major Course</i>
<i>MTT 390 Discipline-Specific Methods (fall only)</i>		<i>MAT/STA Option</i>	<i>Content Major Course</i>
<i>RAL 328 Reading in Secondary Education</i>		<i>ESLM 587 Curriculum & Methods/Multilingual Population (3)</i>	<i>Urban Education</i>
<i>EFN 311 Working within Urban Communities</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>SPED 631: Transition and Community Based Instruction (3)</i>	
<i>SCED 667: Capstone (3) - cross listed with 498 in content areas</i>	<i>Professional Education</i>	<i>EDFN 627 Critical Pedagogy (3)</i>	
		<i>SCED 700: Comprehensive Exam (0 credits)</i>	<i>Co-Requisite with EDFN 627</i>
		<i>Concentration Course (3)</i>	
		<i>Concentration Course (3)</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.*