

## 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 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>
FYW 102 Academic Writing or FYS1XX First Seminar (LL)  MAT 099 Math Dept Orientation	FYS	SED 099 College Seminar	Secondary Education
		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 Computer Science	Content Major Requirements	STA 216 Statistical Inference & Probability (Spring only)	Content Major Requirement
SPA 101	Urban Education/Language Requirement	FYS 1XX or 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
MAT 200 Proof Writing through Discrete Mathematics	Content Major Requirements	SED 224 Adolescent Development (field placement)	Secondary Education
SPA 102 or 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	Liberal Learning		

### Year 3

Fall		Spring	
<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>			
Course	Goal	Course	Goal
<i>MTT 380 Methods of Teaching Mathematics I (fall only)</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>
		<i>MAT 255 Perspectives on the Development of Mathematics (spring only)</i>	<i>Content Major Course</i>
<i>MAT 351 Geometry</i>	<i>Content Major Course</i>	<i>398 Historical and Political Context of Schools SCHP course</i>	<i>Urban Education</i>
<i>L, V, PA course</i>	<i>Liberal learning</i>	<i>MAT 305 Abstract Algebra</i>	<i>Content Major Course</i>
<i>ELE 302/Intro to Teacher Research</i>	<i>Professional Education</i>		
<i>MAT/STA Option</i>	<i>Content Major Course</i>		

### Year 4

Fall		Spring	
<i>Note: 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>MAT/STA Option</i>	<i>Content Major Course</i>
<i>MTT 390 Discipline-Specific Methods (fall only)</i>		<i>MAT 310 Real Analysis</i>	<i>Content Major Course</i>
<i>RAL 328 Reading in Secondary Education</i>		<i>ESLM 587 Curriculum &amp; 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.*