The College of New Jersey

School of Education ~ Dept. of Elementary & Early Childhood Education ~ Fall 2016

4-Year Course Sequence

**Elementary Education/Urban and Mathematics**

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| Fall | Spring |
| **Year 1** |
| Course | Goal | Course | Goal |
| FSP101\* First Year Seminar (check to see if it meets gender or global goals) | FYS  | WRI 102 Academic Writing (If not exempt) or Free Elective\* | AW  |
| MAT 127 Calculus A | Quantitative Reasoning | ELE 203/ Intro to Urban Education | Urban Education |
| MAT 105 Mathematical Structures & Algorithms for Educators I | Math Course | MAT 128 Calculus B | Math Course |
| BIO 104 Cancer, Genes, and the Environment or PHY 103 Physical, Earth, and Space Science\*\* | Natural Science  | MAT 200 Proof Writing Through Discrete Mathematics  | Math Course |
| MAT 099 Orientation to Mathematics |  |  |  |
| Fall | Spring |
| Year 2 |
| Course | Goal | Course | Goal |
| MAT 229 Multivariable Calculus | Math Course | MAT 301 Number Theory | Math Course |
| STA 216 Statistical Inference & Probability | Math Course | MAT 205 Linear Algebra  | Math Course |
| ECE 102/Multicultural Children’s Literature | Professional Education  | RAL 221 Literacy, Strategies, Assessment and Instruction- Elementary | Professional Education  |
| Language 101 or elective | Urban Education | ELE 201 Child and Adolescent Development | Social Science  |
|  |  | Language 102 or elective | Urban Education |
| Fall | Spring |
| Year 3 |
| Course | Goal | Course | Goal |
| Approved VPA course\* | Arts & Humanities  | MST 202 Methods of Teaching Science, Health & Technology | Professional Education |
| MAT 305 Abstract Algebra | Math Course | SOM 203 Social Studies & Multiculturalism | Professional Education  |
| Language 103 or elective |  | MTT 202 Math Methods | Professional Education  |
| U.S. History\* | Correlate | MAT 255 Perspectives on the Development of Math  | Math Course |
| Fall | Spring |
| Year 4 |
| Course | Goal | Course | Goal |
| ELE 302/Intro to Teacher Research  | Professional Education | WGS 350/Gender and Equity in Education | Urban Education |
| MAT 351 Geometry | Math Course |
| MAT 310 Real Analysis | Math course | ESLM 578/ Theory and Practice of ESL | Urban/Graduate |
| ESLM 577 Sociolinguistics | Urban/Graduate | MAT/STA OPTION\*\*\*see attached list | Math Course |

\*Note that **gender** and **global** requirements must be met through the FSP, U.S. History course, VPA course, or free electives. See list of approved Liberal Learning courses on the TCNJ website.

\*\*If BIO 104 is not taken, the Health & Hygiene requirement must be completed online.

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| \*\*This course must be takenin any May Semester or Summer Session or in any semester except Senior Student Teaching |
| Check the FSP to determine whether it fulfills any requirement |

* RAL 221 and ELE 201 must be taken together.
* MTT 202 and MST 202 must be taken together.
* Students are encouraged to take courses during the May or summer semester.
* The information literacy goal is met through a college-wide experience.