The College of New Jersey

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

4-Year Course Sequence

**Early Childhood 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 | ECE 102 Multicultural Children’s Literature for ECED | Professional Education |
| MAT 105 Mathematical Structures & Algorithms for Educators I | Math course | MAT 128 Calculus B | Quantitative Reasoning |
| 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 |  | ELE 203/Introduction to Urban Ed (Spring only) | Urban Education |
| Fall | Spring |
| Year 2 |
| Course | Goal | Course | Goal |
| MAT 229 Multivariable Calculus | Math Course | MAT 301 Number theory | Math Course |
| RAL 222 Literacy, Strategies, Assessment and Instruction- ECHD | Professional Education  | MAT 205 Linear Algebra | Math Course |
| ECE 201 Child and Adolescent Development | Social Science  | Language 102 or elective | Urban Education |
| Language 101 or elective | Urban Education | ECE 202 Theories & Practices in Early Childhood | Professional Education |
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| Fall | Spring |
| Year 3 |
| Course | Goal | Course | Goal |
| STA 216 Statistical Inference & Probability | Math Course | MAT 255 Perspectives on the Development of Math | Math Course  |
| MAT 305 Abstract Algebra | Math Course |
| Approved VPA course\* | Arts & Humanities | SOM 203 Social Studies & Multiculturalism | Professional Education  |
| U.S. History\* | Social Science | MTT 202 Math Methods | Professional Education |
| Language 103 or Elective |  | MST 202 Methods of Teaching Science, Health & Technology | Professional Education |
| Fall | Spring |
| Year 4 |
| Course | Goal | Course | Goal |
| MAT 310 Real Analysis | Correlate | ESLM 587 | Urban Education/Graduate Credite |
| MAT 351 Geometry | Math Course |
| WGS 350/Gender and Equity in Education | Urban Education | MAT/STA OPTION\*\*\*see attached list | Math Course |
| ELE 302/Intro to Teacher Research | Urban Education | Free elective\* | Elective |
| ESLM 577/Sociolinguistics | Urban/Graduate 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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| \*\* Early Childhood Education/Mathematics majors are required to take 32 units to complete both majors. No additional course is needed.  |
| Check the FSP to determine whether it fulfills any requirement |

* RAL 222 and ECE 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.