The College of New Jersey

School of Education ~ Dept. of Elementary & Early Childhood Education ~ Fall 2014

4-Year Course Sequence

**Elementary Education 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 | RAL 225 Children’s Literature  | Arts & Humanities  |
| MAT 200 Proof Writing Through Discrete Mathematics | Math Course | MAT 128 Calculus B | Math Course |
| BIO 104 Cancer, Genes, and the Environment  | Natural Science  | MAT 105 Mathematical Structures & Algorithms for Educators I | 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 |
| MAT 205 Linear Algebra | Math Course | STA 215 Statistical Inference | Math Course |
| MTT 202 Math Methods | Professional Education  | RAL 221 Literacy, Strategies, Assessment and Instruction- Elementary | Professional Education  |
| MST 202 Methods of Teaching Science, Health & Technology | Professional Education  | ELE 201 Child and Adolescent Development | Social Science  |
| Fall | Spring |
| Year 3 |
| Course | Goal | Course | Goal |
| Approved VPA course\* | Arts & Humanities  | ELE 301 Advanced Core Block: Integrating & Differentiating Instruction for All Learners  | Professional Education(counts as 2 units) |
| MAT 305 Abstract Algebra | Math Course | SOM 203 Social Studies & Multiculturalism | Professional Education  |
| MAT 255 Perspectives on the Development of Math | Math Course | RAL 321 Literacy Learning Across the Curriculum-Elementary | Professional Education  |
| MAT 316 Probability | Correlate |  |  |
| Fall | Spring |
| Year 4 |
| Course | Goal | Course | Goal |
| ELE 490 Senior Experience: Student Teaching  | Professional Education(counts as 2 units) | U.S. History\* | Social Science  |
| MAT 351 Geometry | Math Course |
| ELE 498 Inquiry Into Learning (Capstone) | Social sciences course taken with student teaching | Free Elective\* |  |
| Free elective- Must be taken at another time\*\* | Full time semester | 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.

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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.
* The above courses are prerequisites to ELE 301.
* It is recommended that ELE 301 be taken with RAL 321 and SOM 203. In the event that this prevents the student from completing the major courses, flexibility in scheduling these courses is recommended.
* Students are encouraged to take courses during the May or summer semester.
* The information literacy goal is met through a college-wide experience.