**Elementary Education/Math(ELEM/MATE) Major**  **Degree**  **Course Units AY 2014-15**

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| Name:       |  | Updates |
| TCNJ ID:      | TCNJ Entry:       | Major Entry:      |       |       |       |
| 2nd Major:  | 1st Minor: | 2nd Minor:  |       |       |       |
| Earned Hours:       | GPA:       | Major GPA:      |       |       |       |

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| **Liberal Learning Breadth Requirements** | **Major Program Requirements** | **Civic Responsibilities, Proficiencies & Electives** |
| **Courses Grade** | **Courses Units Grade** | **Courses Grade** |
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| **Indicate Option Met:****[x]  Second Major** **(A**)(Attachment)MATE |
| [ ]  **Interdisciplinary Designated Concentration (A)** (Attachment) |
| [ ]  **Self-Designed Interdisciplinary Concentration (B)** (Attachment)      |
| [ ]  **Breadth Distribution List (C)** **– 9 Courses:** |
| **Arts & Humanities – 2 Courses**Literary, Visual, Performing Arts(at least one from each) |
| RAL 225 |  |
| Approved VPA course |  |
| **Social Science & History – 2 Courses** Behavioral, Social or Cultural Perspectives; Social Change in Historical Perspective (at least one from each)) |
| US History |  |
| ELE 201 |  |
| **Natural Sciences & Quantitative Reasoning– 3 Courses** Natural Science (at least one lab); Quantitative Reasoning (at least one from each) |
| BIO 104 |  |
| MAT 127 |  |
| MAT 128 |  |
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**Transfer Information**:School       Credit Accepted:     School       Credit Accepted:     School       Credit Accepted:     Pending:      **See reverse for important notes.** | **Correlate Courses:**

|  |  |  |
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| Visual and Perform. Arts | 1 |  |
| US History  | 1 |  |
| MAT 105 | 1 | None |
| BIO 104 | 1 |  |
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| **Major Core:**

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| RAL 225 | 1 |  |
| RAL 221 | 1 |  |
| ELE 201 | 1 |  |
| MTT 202 | 1 |  |
| MST 202 | 1 |  |
| ELE 301\* | 2 |  |
| SOM 203 | 1 |  |
| RAL 321 | 1 |  |
| ELE 490\*\* | 2 |  |
| ELE 498 | 1 |  |

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| **Major Options/Concentrations:**

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\*Requires min 2.5 cumulative GPA.\*\* Requires min 2.75 cumulative GPA. |
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**Waivers & Substitutions**

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| **Civic Responsibilities –** May be met through Courses, Programs or Sustained Experiences |
| [x] **Community Engaged Learning** |
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| [ ] **Gender** |
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| [ ]  **Global Perspective** |
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| [x]  **Race & Ethnicity** |
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 **Intellectual & Scholarly Growth:****[ ]**

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| WRI 101 (if required)  |  |
| WRI 102 (if required) |  |

 **Writing Intensive Courses: 3**

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| FSP 101 First Seminar |  |
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**[ ]  Information Literacy**On-Line Library

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| [x]  **Second Language-**N/A |
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| **Placement Deficiencies Met With** |
| [ ]  Not Applicable |
| [ ] Math |       |  |
| [ ] Verbal |       |  |

 **Electives 2 Courses**

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Eligibility for graduation requires:1. a cumulative Grade Point Average of 2.75 for teacher certification
2. completion of all department requirements;
3. at least 32 units. minimum of 6 units in the major must be earned in the department. A minimum of 4 of the final 6 units must be earned in the department
4. at least B- in MAT 127 or MAT 128 and at least C in MAT 200 or 205
5. at least C- in all other MAT & STA courses with the following exception: for 300-400 level courses at most 1 grade of D or D+
6. a t least C- in any course that is prerequisite for subsequent course.
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**FOUR YEAR SEQUENCE INFORMATION:**

* ELE 201 and RAL 221 are taken as a block in either the 1st or 2nd semester of the sophomore year (or 1st semester of junior year, if needed).
* MTT 202 and MST 202 are taken as a block in either the 1st or 2nd semester of the sophomore year (or 1st semester of junior year, if needed). It is not recommended that both sophomore blocks be taken in the same semester.
* It is recommended that ELE 301, SOM 203, and RAL 321 be taken as a block in the junior year (or 1st semester of senior year, if needed). In the event that this prevents the student from completing major courses, flexibility in scheduling these courses is recommended.
* ELE 490 (Student Teaching) and ELE 498 (Capstone) are taken as a block in the senior year. This is a 3 unit semester and should not be taken with any other courses. One additional unit must be taken in any May Semester, Summer Session or any other semester except Senior Student Teaching.

**Mathematics (MATE)**

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| **Major Program Requirements****9 Mathematics Core, 2 MAT/STA Liberal Learning courses, 1 Correlate, and 1 Option as listed:** |
| **Courses Grade** |
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| **Major Core: 9** Courses |
| **MAT 200** Proof Writing through Discrete Mathematics  |  |
| **MAT 205** Linear Algebra: Theory and Applications |  |
| **MAT 229** Multivariable Calculus |  |
| **MAT 255** Perspectives on the Development of Math |  |
| **MAT 301** Number Theory |  |
| **MAT 305** Abstract Algebra |  |
| **MAT 316** Probability |  |
| **MAT 351** Geometry |  |
| **STA 215** Statistical Inference |  |

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| **Major Options/Concentrations:** 1 Course. Any MAT/STA course at the 300/400 level (with advisement) |
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| **Major non-credit requirement**[ ]   **MAT 099** Orientation Sem  |
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**Waivers & Substitutions**

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**Revised 8/04** **1/07** **2/10** **8/12** **7/13** |