**Mathematics Secondary Education BS Degree**  **Course Units AY 2019-20**

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| Name:       |  | Updates |
| TCNJ ID:      | TCNJ Entry:       | Major Entry:      |       |       |       |
| 2nd Major:  | 1st Minor: | 2nd Minor:  |       |       |       |
| Earned Hours:       | GPA:       | Major GPA:      |       |       |       |
| **Liberal Learning Breadth Requirements****NOTE: courses in *italics* are also listed as major and/or correlate courses.** | **Major Program Requirements** | **Civic Responsibilities, Proficiencies & Electives** |
| **Courses Grade** | **Courses Grade** | **Courses Grade** |
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| [ ]  **Breadth Distribution List (C)-8 Courses:** |
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| **Arts & Humanities – 2 Courses**Literary, Visual, Performing Arts; World Views/Ways of Knowing  |
| ***MAT 255*** *Perp on Dev of Math* |  |
| 1 LVPA course |  |
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| **Social Science & History – 3 Courses** Behavioral, Social or Cultural Perspectives; Social Change in Historical Perspective  |
| SED 224 *Adol Lrn & Dev* |  |
| SPE 103 *Soc & Leg Fndtns of Spec Ed* |  |
| 1 SCHP course (EFN 398 recommended) |  |
| **Natural Sciences & Quantitative Reasoning– 3 Courses** Natural Science (at least one lab); Quantitative Reasoning (at least one from each) |
| **MAT 127** Calculus A |  |
| **MAT 128** Calculus B |  |
| *BIO 201, CHE 201, PHY 201* |  |

**\*Requires state of NJ Basic Skills requirement.****\*\*Requires min 3.0 cumulative GPA, minimum of B- in all courses in Clinical Practice I, Praxis scores submitted, and completion of STA 216, MAT 301, MAT 351, and MAT 305 and all but at most 3 of their math major requirements.****Revised 7/11/19** |

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| **Correlate Courses: 2** Courses |
| BIO 201, CHE 201 or PHY 201 |  |
| **CSC 220** Computer Sci. |  |
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| **Major Core: 10** Courses |
| **MAT 200** Discrete Math. |  |
| **MAT 205** Linear Algebra |  |
| **MAT 229** Multivar. Calc. |  |
| **MAT 255** Perp on Dev of Math |  |
| **MAT 301** Number Theory |  |
| **MAT 305** Abstract Alg |  |
| **MAT 310** Real Analysis |  |
| **MAT 351** Geometry |  |
| **STA 216** Statistical Inf. & Probability |  |

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| **MAT 497** Tpcs in Sec Math from Adv Viewpoint |
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| **Major Options/Concentrations: 2** Courses. Any MAT/STA courses at the 300/400 level (with advisement) |
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| **Major non-credit requirement:**[ ]  **MAT 099** Orientation Sem  **SED 099** Orientation Sem |
| **Secondary Education Sequence 9 courses (10 course units)** |
| **SED 224** Adol Lrn & Dev  | 1 |  |
| **EFN 299** School & Com | 1 |  |
| **MTT 380** Meth of Tch Math I | 1 |  |
| **\*SED 399** Ped in Sec Schls | 1.5 |  |
| **MTT 390** Meth of Tch Math II | 1 |  |
| **SPE 103** Soc & Leg Fndtns of Spec Ed | 1 |  |
| **RAL 328** Rdg in Sec Ed | 0.5 |  |
| **\*\*MTT 490** Clinical Practice II | 2 |  |
| **SED 498** Capstone | 1 |  |
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| **Civic Responsibilities –** May be met through Courses, Programs or Sustained Experiences |
| [ ] **Community Engaged Learning** |
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| [ ] **Gender** |
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| [ ]  **Global Perspective** |
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| [ ]  **Race & Ethnicity** |
| *EFN 299 School&Com* |  |

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| **Intellectual & Scholarly Growth:**  |
|  **WRI 101 (if required)**  |  |
|  **WRI 102 (if required)** |  |

 **Writing Intensive Courses: 3**

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| **FSP First Seminar** |  |
| **MTT 380** |  |
| **SED 498** |  |

**[ ]  Information Literacy**On-Line Library

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|  [ ]  **Second Language** Demonstrated proficiency at the Low-Intermediate Level (0-2 Courses Based on Placement) |
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|  [ ]  Not Applicable |

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| **Electives**  |
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| **Placement Deficiencies Met With** |
| [ ]  Not Applicable |
| [ ] Math |       |  |
| [ ] Verbal |       |  |

**Graduation Requirements:**1. minimum GPA of 3.0 required for teacher certification
2. Minimum GPA of 2.00. A 2.5 GPA in the courses MAT 127, 128, 200, 205, 229.
3. 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 C- in all MAT & STA courses with the following exception: at most one grade of D or D+ in a MAT/STA 3xx/4xx course that is not a prerequisite for another course.
5. At most one course unit of independent work courses MAT 39x, 49x can count as math options.
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