**Mathematics Major (Mathematics Specialization) BS Degree**  **Course Units (128 Credits) AY 2019-2020**

|  |  |  |
| --- | --- | --- |
| 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****NOTE: courses in *italics* are also listed as liberal learning courses.****14 Mathematics, 1 Mathematics/ Liberal Learning, 2 Correlate/ Liberal Learning courses as listed:** | **Civic Responsibilities, Proficiencies & Electives** |
| **Courses Grade** | **Courses Grade** | **Courses Grade** |
|

|  |
| --- |
| **Indicate Option Met:** |
| **[ ]  Designated Interdisciplinary Concentration (A)** (Attachment) |
| [ ]  **Second Major (A)** (Attachment) |
| [ ]  **Self-Designed Interdisciplinary Concentration (B)** (Attachment)      |
| [ ]  **Breadth Distribution List (C) -- 8 Courses:** |
|  |
|  |
| **Arts & Humanities/Social Science & History – 5 courses.**  |
| 1 course unit in Literary, Visual, Performing Arts (LVPA) |  |
| 1 course unit in World Views/Ways of Knowing (WVWK) |  |
| 1 course unit in Behavioral, Social or Cultural Perspectives (BSCP) |  |
| 1 course unit in Social Change in Historical Perspective (SCHP) |  |
| 1 additional course unit in LVPS, WVWK, BSCP, or SCHP |  |
| **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* |  |
| Any natural science course with lab from the Dept. list (see website). |  |

**Transfer Information**:School       Credit Accepted:     School       Credit Accepted:     School       Credit Accepted:     Pending:       |

|  |
| --- |
| **Correlate Courses: 2** Courses |
| Any natural science course with lab from Dept. list (See website).  |  |
| **CSC** 220 or **CSC** 250 |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
| **Major Core: 8** Courses |
| **MAT 128** Calculus B |  |
| **MAT 200** Proof Writing |  |
| **MAT 205** Linear Algebra |  |
| **MAT 229** Multivar. Calc. |  |
| **MAT 2xx:** Soph. Seminar |  |
| **MAT 305** Abstract Alg. |  |
| **MAT 310** Real Analysis |  |
| **MAT 498** Capstone |  |

 |
|  |
|

|  |
| --- |
| **Major Options/Concentrations: 6** Course units. Courses must be 300/400-level MAT courses or STA 410 or one of the science courses indicated on PAWS. At least two courses must be 400-level MAT courses. |
| **MAT 4xx** |  |
| **MAT 4yy** |  |
|       |  |
|       |  |
|       |  |
|       |  |

 |
| **Major non-credit requirement:**[ ]  **MAT 099** Orientation Sem  |
| **Retention and Graduation Requirements:**1. Minimum GPA of 2.00. A 2.5 GPA in the courses MAT 127, 128, 200, 205, 229.
2. 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.
3. At least C- in all MAT courses with the following exception: at most one grade of D or D+ in a MAT 3xx/4xx course that is not a prerequisite for another course.
4. At most one course unit of independent work courses MAT 39x, 49x can count as math options.
 |

**Waivers & Substitutions**

|  |
| --- |
|  **for**  |
|  **for**  |
|  **for**  |
|  **for**  |

 |

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

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

 **Writing Intensive Courses: 3**

|  |  |
| --- | --- |
| **FSP First Seminar**  |  |
| **Other** |  |
| **MAT 498 Capstone**  |  |

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

|  |
| --- |
| [ ]  **Second Language** Demonstrated proficiency at the Low-Intermediate Level (0-3 Courses Based on Placement) |
|       |  |
|       |  |
|       |  |
| [ ]  Not Applicable |

|  |
| --- |
| **Electives 6** or more Courses (as needed to earn 32 course units for graduation). |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| **Placement Deficiencies Met With** |
| [ ]  Not Applicable |
| [ ] Math |       |  |
| [ ] Verbal |       |  |

Evaluator Approval: |

 Revised: 6/2019