### Mathematics Major (Applied Mathematics Specialization) BS Degree, 32 Course Units (128 credits) AY 2020-21

<table>
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<tr>
<th>Name</th>
<th>TCNJ ID:</th>
<th>TCNJ Entry:</th>
<th>Major Entry:</th>
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<td>Freshman</td>
<td>Major GPA:</td>
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#### Major Program Requirements

**NOTE:** courses in *italics* are also listed as liberal learning courses.

- 15 Mathematics, 1 Mathematics/ Liberal Learning, 3 Correlate/ Liberal Learning courses as listed:
  - Courses: BIO 201, CHE 201, or PHY 201
  - Grade: None

- **Correlate Courses:** 2 or 3 Courses
  - BIO 201, CHE 201, or PHY 201
  - Grade: None

- **Major Core:** 9 Courses
  - MAT 128 Calculus B
  - MAT 200 Proof Writing
  - MAT 205 Linear Algebra
  - MAT 229 Multivar. Calc.
  - MAT 310 Real Analysis
  - MAT 326 Differential Equations
  - MAT 498 Capstone
  - STA 215: Statistical Inference or STA 216: Statistical Inference and Probability
  - Grade: None

- **Math/Stat Options:** 6 Course Units. At least one Applied Math 4xx course. Three 300/400-level courses from Applied Math option list. At most two STA 300+ courses, and at most one non MAT/STA course from the approved list can count towards this 6 course unit requirement.
  - Courses:
    - MAT 127: Calculus A
    - CSC 220: Comp. Sci. I
    - BIO 201, CHE 201, or PHY 201
  - Grade: None
  - MAT 4xx Applied Math course
  - Grade: None
  - MAT 3xx/4xx Applied Math option
  - Grade: None

#### Waivers & Substitutions
- GPA: None
- Major GPA: None

### Civic Responsibilities, Proficiencies & Electives

- **Intellectual & Scholarly Growth:**
  - WRI 101 (if required)
  - WRI 102 (if required)
  - Grade: None
  - Writing Intensive Courses: 3
  - FSP First Seminar
  - Grade: None
  - Other
  - Grade: None

- **Global Perspective**
  - Gender
  - Grade: None

- **Information Literacy**
  - Information Literacy
  - Grade: None

- **Race & Ethnicity**
  - Grade: None

- **Retention and Graduation Requirements:**
  - Minimum GPA of 2.00. A 2.5 GPA in the courses MAT 127, 128, 200, 205, 229.
  - Minimum of 6 units in the major must be earned at TCNJ. A minimum of 4 of the final 6 units in the major must be earned at TCNJ.
  - At least C- in all MAT/STA courses with the following exceptions: at most one grade of D or D+ in a MAT/STA 3xx/4xx course that is not a prerequisite for another course, At least a C- in CSC 220.
  - At most one course unit of independent work courses MAT 39x, 49x, STA 39x, STA 49x can count as options.

- **Placement Deficiencies Met With:**
  - Math
  - Grade: None
  - Verbal
  - Grade: None

- **Evaluator Approval:**
  - Not Applicable