**Mathematics Major (Statistics Specialization) BA Degree**  **Course Units (128 Credits) AY 2015-2016**

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| Name: | | | | |  | | Updates | | | |
| TCNJ ID: | | TCNJ Entry: | | Major Entry: | | |  |  |  | |
| 2nd Major: | | 1st Minor: | | 2nd Minor: | | |  |  |  | |
| Earned Units: | | 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 and Statistics,**  **1 Correlate/Mathematics,**  **2 Correlate/Liberal Learning and**  **1 Correlate course 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**  Natural Science (at least one lab); Quantitative Reasoning (at least one from each) | | | MAT 127 Calculus A | None | | *Any two natural science*  *courses from the Dept. list (see website), at least one with a lab.* |  | |  |  |   **Transfer Information**:  School       Credit Accepted:  School       Credit Accepted:  Pending: | | |  |  | | --- | --- | | **Correlate Courses: 3** Courses | | | *Any two natural science*  *courses from the Dept.*  *list (see website), at least one with a lab.* |  | | CRI 215 Data Mgmt. |  | |  | None | |  |  | | |  |  | | --- | --- | | **Major Core: 9** Courses | | |  |  | | **MAT 128** Calculus B |  | | **MAT 200** Proof Writing |  | | **MAT 205** Linear Algebra |  | | **MAT 229** Multivar. Calc. |  | | **MAT 316** Probability |  | | **STA 215** Stat. Inference |  | | **STA 305** Regression Anal. |  | | **STA 410** Math. Stat. |  | | **STA 498** Capstone |  | | | | |  |  | | --- | --- | | **Major Options/Concentrations: 5** Courses.  Choose **3** from the following: | | | **STA 303** Design of Exp. |  | | **STA 304** Samp & Non-parametric Stat. |  | | **STA 306** Applied Multivariate Analysis | None | | **STA 307** Data Mining  and Predictive Modeling | | **STA 314** Quality Control |  | | **AND 2** MAT/STA Options (with advisement) | | |  |  | |  |  | | | | **Major non-credit requirement:**  **MAT 099** Orientation Sem | | | |  | | | **Graduation Requirements:**   1. Minimum GPA of 2.00 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 a B- in MAT 127 or 128; and at least C in STA 215 and in MAT 316 4. At least C- in all other MAT & STA courses with the following exception: for 300-400 level courses at most 1 grades of D or D+. 5. At least C- in any course that is prerequisite for subsequent course | |   **Waivers & Substitutions**   |  | | --- | | **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 |  | | STA 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 3** Courses | | | | |  | | |  | |  | | |  | |  | | |  | |  | | |  | |  | | |  | |  | | |  | |  | | |  | | **Placement Deficiencies Met With** | | | | | Not Applicable | | | | | Math |  |  | | | Verbal |  |  | |   Evaluator Approval: | | | |