**Mathematics Major (Statistics Specialization) BA Degree**  **Course Units (128 Credits) AY 2013-2014**

|  |  |  |
| --- | --- | --- |
| 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) -9 Courses:** |
| **NOTE: Majors within the School of Science should choose a First Seminar to meet either A&H or SS&H** |
|  |
| **Arts & Humanities – 3 Courses**From Literary, Visual , Performing Arts ; World Views/Ways of Knowing (at least one from each) |
|       |  |
|       |  |
|       |  |
| **Social Sciences & History – 3 Courses** from Behavioral, Social or Cultural Perspectives & Social Change in Historical Perspective(at least one from each) |
|       |  |
|       |  |
|        |  |
| **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.* |  |
| CSC 220 Comp Sci I |  |
|  | 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 Miningand 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: |