Mathematics Major (Applied Mathematics Specialization) BS Degree, 32 Course Units (128 credits) AY 2019-20

Name:			Freshman	Updates	
TCNJ ID:	TCNJ Entry:		Major Entry:		
2nd Major: None	1st Minor:None		2nd Minor: None		
Earned Hours:	GPA:		Major GPA:		

Liberal Learning Breadth Requirements

NOTE: courses in *italics* are also listed as major and/or correlate courses.

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)	None
1 course unit in World Views/Ways of Knowing (WVWK)	None
1 course unit in Behavioral, Social or Cultural Perspectives (BSCP)	None
1 course unit in Social Change in Historical Perspective (SCHP)	None
1 additional course unit in LVPS, WVWK, BSCP, or SCHP	None
Natural Sciences & Quantitative Reasoning– 3 Courses Natural Science (at least one lab); Quantitative Reasoning (at least one from each)	
MAT 127*: Calculus A*	None
CSC 220*: Comp Sci. I*	None
BIO 201, CHE 201, or PHY 201	None

Transfer Information:
School   Credit Accepted:
School   Credit Accepted:
School   Credit Accepted:
Pending:

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	Grade
Correlate Courses: 2 or 3 Courses	
BIO 201, CHE 201, or PHY 201	None
CSC 220 Comp. Sci. I and either **CSC 230** Comp. Sci. II or **MAT 341**: Computational Math**;** or **CSC 250** Accelerated Comp. Sci I & II. (Courses may not count towards depth requirement.)	
Major Core: 9 Courses	
MAT 128 Calculus B	None
MAT 200 Proof Writing	None
MAT 205 Linear Algebra	None
MAT 229 Multivar. Calc.	None
MAT 2xx: Soph. Seminar	None
MAT 310 Real Analysis	None
MAT 326 Differential Equations	None
MAT 498 Capstone	None
STA 215: Statistical Inference or **STA 216:** Statistical Inference and Probability	None

Math/Stat Options: 6 Course Units. At least one Applied Math 4xx course. Three 300/400-level courses from Applied Math option list. Two courses must be chosen to satisfy the Applied Math depth requirement (see PAWS/Math website for details). 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	Grade
MAT 4xx Applied Math course	None
Depth req. Course #1	None
Depth req. Course #2 (if not satisfied by MAT 4xx	None
	None
	None
	None

Major non-credit requirement:
☐ **MAT 099** Orientation Sem. None

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/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 C- in CSC 220.
4) At most one course unit of independent work courses MAT 39x, 49x, STA 39x, STA 49x can count as options.

Waivers & Substitutions
n/a for
n/a for

Civic Responsibilities, Proficiencies & Electives

Courses	Grade	
Civic Responsibilities – May be met through Courses, Programs or Sustained Experiences		
☐**Community Engaged Learning**		
	None	
☐**Gender**		
	None	
☐ **Global Perspective**		
	None	
☐ **Race & Ethnicity**		
	None	
Intellectual & Scholarly Growth:		
WRI 101 (if required)	None	
WRI 102 (if required)	None	
Writing Intensive Courses: 3		
FSP First Seminar	None	
Other	None	
MAT 498 Capstone	None	
☐ **Information Literacy** On-Line Library		
☐ **Second Language** Demonstrated proficiency at the Third Level (0-3 Courses Based on Placement)		
	None	
	None	
	None	
☐ Not Applicable		
Electives Courses (as needed to earn 32 course units for graduation, generally 5-6).		
	None	
	None	
	None	
	None	
	None	
	None	
	None	
Placement Deficiencies Met With		
☐ Not Applicable		
☐Math		None
☐Verbal		None

Evaluator Approval: