

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

Name:		Freshman		Updates													
TCNJ ID:	TCNJ Entry:	Major Entry:															
2 nd Major: None	1 st Minor: None	2 nd Minor: None															
Earned Hours:	GPA:	Major GPA:															
Liberal Learning Breadth Requirements NOTE: courses in <i>italics</i> are also listed as major and/or correlate courses.			Major Program Requirements NOTE: courses in <i>italics</i> are also listed as liberal learning courses. 15 Mathematics, 1 Mathematics/ Liberal Learning, 3 Correlate/ Liberal Learning courses as listed:														
Courses			Courses														
Grade			Grade														
Indicate Option Met:			Correlate Courses: 2 or 3 Courses														
<input type="checkbox"/> Designated Interdisciplinary Concentration (A) (Attachment)			<table border="1"> <tr> <td>BIO 201, CHE 201, or PHY 201</td> <td>None</td> </tr> <tr> <td>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.</td> <td></td> </tr> </table>			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.									
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.																	
<input type="checkbox"/> Second Major (A) (Attachment)																	
<input type="checkbox"/> Self-Designed Interdisciplinary Concentration (B) (Attachment)																	
<input type="checkbox"/> Breadth Distribution List (C) -- 8 Courses:																	
Arts & Humanities/Social Science & History – 5 courses.			Major Core: 9 Courses														
1 course unit in Literary, Visual, Performing Arts (LVPA)	None	MAT 128 Calculus B		None													
1 course unit in World Views/Ways of Knowing (WVWK)	None	MAT 200 Proof Writing		None													
1 course unit in Behavioral, Social or Cultural Perspectives (BSCP)	None	MAT 205 Linear Algebra		None													
1 course unit in Social Change in Historical Perspective (SCHP)	None	MAT 229 Multivar. Calc.		None													
1 additional course unit in LVPS, WVWK, BSCP, or SCHP	None	MAT 2xx: Soph. Seminar		None													
Natural Sciences & Quantitative Reasoning– 3 Courses Natural Science (at least one lab); Quantitative Reasoning (at least one from each)			MAT 310 Real Analysis														
MAT 127: <i>Calculus A</i>			None														
CSC 220: <i>Comp Sci. I</i>			None														
BIO 201, CHE 201, or PHY 201			None														
Transfer Information: School Credit Accepted: School Credit Accepted: School Credit Accepted: Pending:			<table border="1"> <tr> <td>MAT 326 Differential Equations</td> <td>None</td> </tr> <tr> <td>MAT 498 Capstone</td> <td>None</td> </tr> <tr> <td>STA 215: Statistical Inference or STA 216: Statistical Inference and Probability</td> <td>None</td> </tr> </table>			MAT 326 Differential Equations	None	MAT 498 Capstone	None	STA 215: Statistical Inference or STA 216: Statistical Inference and Probability	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. 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. At most 1 course unit of MAT/STA 39x/49x may count as a MAT/STA option.														
			<table border="1"> <tr> <td>MAT 4xx Applied Math course</td> <td>None</td> </tr> <tr> <td></td> <td>None</td> </tr> <tr> <td></td> <td>None</td> </tr> <tr> <td></td> <td>None</td> </tr> <tr> <td></td> <td>None</td> </tr> <tr> <td></td> <td>None</td> </tr> </table>			MAT 4xx Applied Math course	None		None		None		None		None		None
MAT 4xx Applied Math course	None																
	None																
	None																
	None																
	None																
	None																
			Major non-credit requirement: <input type="checkbox"/> MAT 099 Orientation Sem. None														
			Retention and Graduation Requirements: 1) 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. 2) 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. 3) 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														
			Civic Responsibilities – May be met through Courses, Programs or Sustained Experiences														
			<input type="checkbox"/> Community Engaged Learning														
			None														
			<input type="checkbox"/> Gender														
			None														
			<input type="checkbox"/> Global Perspective														
			None														
			<input type="checkbox"/> 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												
			<input type="checkbox"/> Information Literacy On-Line Library														
			<input type="checkbox"/> Second Language Demonstrated proficiency at the Third Level (0-3 Courses Based on Placement)														
			None														
			None														
			None														
			<input type="checkbox"/> 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														
			<input type="checkbox"/> Not Applicable														
			<input type="checkbox"/> Math		None												
			<input type="checkbox"/> Verbal		None												
			Evaluator Approval:														

