

Mathematics Specialization Requirement Checklist

(For students declaring the specialization on or after Fall 2018)

Each line represents a major or correlate requirement for the Mathematics specialization. Please check off the requirements as completed and indicate which courses are satisfying them. Please note that these requirements do not include TCNJ's liberal learning and language requirements.

1. Required Core Courses:

- a. ____ MAT 127: Calculus A
- b. ____ MAT 128: Calculus B
- c. ____ MAT 200: Proof Writing Through Discrete Mathematics
- d. ____ MAT 205: Linear Algebra
- e. ____ MAT 229: Multivariable Calculus

(There is a required minimum GPA of 2.5 for the set of courses MAT 127, 128, 200, 205, 229.)

- f. ____ MAT 275: Sophomore Seminar
- g. ____ MAT 305: Abstract Algebra
- h. ____ MAT 310: Real Analysis
- i. ____ MAT 498 Capstone

2. MAT/STA Options: Six additional course units

- a. ____ MAT: Course with number between 400 and 480 Course taken: _____
- b. ____ MAT: Course with number 300 or above* Course taken: _____
- c. ____ MAT: Course with number 300 or above* Course taken: _____
- d. ____ MAT: Course with number 300 or above* Course taken: _____
- e. ____ MAT: Course with number 300 or above* Course taken: _____
- f. ____ MAT: Course with number 300 or above*, or
BIO 471/CSC 471, CHE 372, CSC 335, CSC 445, FIN 360, PHY 401, or STA 410.
Course taken: _____

*At most one course unit of courses numbered 39x or 49x (not counting the Capstone) may be counted towards the major.

3. Correlate requirements:

- a. Computer Science Requirement:
____ MAT203/270
- b. Lab Science Requirement (one course unit, check one):
 - i. ____ BIO 201 Foundations of Biological Inquiry
 - ii. ____ CHE 201 General Chemistry I
 - iii. ____ PHY 201 General Physics I