Guidance for transfer students in Mathematics and Statistics
Applied Math Specialization

Students planning to transfer to TCNJ have often completed all or part of the calculus sequence (Differential Calculus, Integral Calculus, and Multivariable Calculus) prior to transfer. Many students have also taken a linear algebra course, differential equations, and/or a computer programming course. If taken at a community college, these classes will not have covered quite as much as the corresponding courses at TCNJ. The department chair or associate chair will talk to you to help you decide which of these classes you should take at TCNJ.

If you do not have an associates' degree, you will need to complete courses from across TCNJ to ensure the breadth of your college program. Some of your transfer courses may satisfy some of these requirements. The department chair can share a list of these requirements and will help you understand the process for requesting credit for your transfer courses. If you have an associates' degree, you are exempted from these requirements.

TCNJ uses a course unit system instead of a credit system. One TCNJ course unit is equivalent to 4 credits in a credit system. For graduation, all students must complete 32 course units. Your transfer credits will count towards these units. TCNJ students normally take 4 units each semester.

Below is a sample plan for completing the degree requirements in Applied Mathematics in two years for a student who arrives at TCNJ in the fall with 16 course units, with all calculus courses completed, and with an associates' degree.

Semester 1: MAT200, MAT205, CSC220, MAT099, STA 215 (4units)

Semester 2: MAT326, MAT310, applied math option MAT3xx, MAT275 (sophomore seminar) (offered in the spring only), ½ unit or 1 unit elective (4 or 4.5units)

Semester 3: 1 applied math option MAT4xx, 1 applied math option MAT3xx, 1 math or stats options MATSTA3xx or MAT/STA4xx, CSC230

Semester 4: 2 math or stat options MAT/STA 3xx or MAT/STA 4xx, MAT498 (offered in spring only), a 200-level science course with a lab (4 units)

Please see the applied math checklist and the document College Core requirements for Math majors for a complete list of requirements for applied math majors at TCNJ.