# Mathematics: Preparing to transfer from CCC to Geneseo

## BS Applied Mathematics

**Basic Requirements:**

MATH 221: Calculus I (CCC: MATH 1610)
- MATH 112 is prerequisite (CCC: MATH 1413)

MATH 222: Calculus II (CCC: MATH 1620)

MATH 223: Calculus III (CCC: MATH 2610)

MATH 230: Programming and Mathematical Problem Solving (CCC: ENGR 1050) OR
PHYS 261: Programming in Physics

MATH 233 - Linear Algebra I (CCC: MATH 2560)

MATH 239: Introduction to Mathematical Proof  (CCC: MATH 2350)

MATH 324: Real Analysis

MATH 326: Differential Equations (CCC: MATH 2620)

MATH 333: Linear Algebra II

MATH 345: Numerical Analysis I

MATH 348: Oral Presentation & Research Seminar

**Additional Requirements:**

*Probability*

MATH 360: Probability

MATH 361: Statistics

*Analysis*

MATH 325: Real Analysis II

MATH 346 Numerical Analysis II

MATH 350: Vector Analysis

MATH 371: Complex Analysis

*Applied Mathematics:*

MATH 332: Linear Programming and Operations Research

MATH 340: Modeling Biological Systems

MATH 382: Discrete Wavelengths and Applications

*Differential Equations:*

MATH 328: Theory of Ordinary Differential Equations

MATH 372: Partial DIfferential Equations

*Discrete Mathematics*

MATH 310: Graph Theory

MATH 315: Combinatorics

MATH 319: Number Theory

MATH 330: Abstract Algebra

**Mathematics: Preparing to transfer from CCC to Geneseo**


*Computing*

      MATH 384: Computational Graphics

      MATH 385: Mathematical Reasoning and Advanced Programming Techniques

      *At most one of:*

            MATH 303: Theory of Computational Complexity

            MATH 304: Theory of Computability