Mathematics: Preparing to transfer from CCC to Geneseo

<u>BS Mathematics</u>

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 233: Linear Algebra I (CCC: MATH 2560)
> MATH 239: Introduction to Mathematical Proof (CCC: MATH 2350)
> MATH 324: Real Analysis
> MATH 330: Abstract Algebra
> MATH 348: Oral Presentation and Research Seminar)

Choose one of the following (3 credits):
> MATH 230: Programming and Mathematical Problem Solving (CCC: ENGR 1050)
> MATH 345: Numerical Analysis I
> MATH 382: Discrete Wavelets and Applications
> MATH 384: Computational Graphics
> MATH 385: Mathematical Reasoning and Advanced Programming Techniques

Additional Requirements:
Foundations - Two of the following:
> MATH 301: Mathematical Logic
> MATH 302: Set Theory
> MATH 304: Theory of Computability

Algebra - Two of the following:
> MATH 310: Graph Theory
> MATH 319: Number Theory
> MATH 333: Linear Algebra II
> MATH 381: Topics in Algebra

Analysis
> MATH 325: Real Analysis II
> *One of the following:*
> > MATH 350: Vector Analysis
> > MATH 371: Complex Analysis

Geometry & Topology
> MATH 335: Geometry
> MATH 338: Topology

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300-Level Mathematics Elective Requirements (6 credits):

CCC students who complete MATH 2410 Probability and Statistics I will earn credit for MATH 341 at Geneseo.

CCC students who complete MATH 2620 Ordinary Differential Equations will earn credit for MATH 326.