Math 562: Spring 2025
Complex Variables II

Instructor: Prof. Jens Lorenz

SMLC 208
jlorenz@unm.edu
office hours: MW 1:30-3:00

Time: MWF 10-10:50
Place: Dane Smith Hall, room 128

Text: Recommended:

Elias Stein, R. Sharkarchi, *Complex Analysis*, Princeton Lectures in Analysis II, Princeton University Press

Topics: The Riemann mapping theorem; Schwarz–Christoffel integrals; applications of complex variables to linear algebra; Riemann's ζ–function and the prime number theorem; applications of complex variables to Fourier transformation; Paley–Wiener theorems; Hadamard's factorization theorem.

Basis for grading: The grade will be determined by your homework.

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Note: Qualified students with disabilities needing appropriate academic adjustments should contact me as soon as possible to ensure your needs are met in a timely manner.