

**CCSU**  
**DEPARTMENT OF MATHEMATICAL SCIENCES**

# **COLLOQUIUM**

Friday, December 2

4:30 – 5:30 PM

Maria Sanford, Room 101

## **CLASSICAL MINIMAL SURFACES**

**MICHAEL NIMCHEK**

(MA in Mathematics Thesis Presentation)

**CENTRAL CONNECTICUT STATE UNIVERSITY**

**Abstract:** Minimal surfaces have captured the imagination of mathematicians since they were first discovered in the late eighteenth century. This presentation explores classical minimal surfaces. Topics include: the derivation of several forms of the minimal surface equation (MSE); how the MSE is consistent with vanishing mean curvature; surfaces of revolution, ruled surfaces, and translation surfaces that are minimal surfaces; the Weierstrass Representation Formula.

***For further information:***

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