DEPARTMENT OF MATHEMATICS SEMINAR

UNIVERSITY OF
CENTRAL
ARKANSAS™

Speaker: **Dr. Weijiu Liu**
UCA Department of Mathematics

Title: **Blood Glucose Regulation and Completeness of Real Numbers**

Date: **Wednesday, September 14, 2016**

Time: **2:00 p.m.**

Place: **MCS Room 220**

ABSTRACT: In this talk I will discuss with you a connection between the blood glucose regulation and the completeness of real numbers. We will see that, to design a feedback controller to regulate the glucose, we need the center manifold theory. To establish the center manifold theory, we need the Banach contraction mapping principle; to build the principle, we need the completeness of a metric space; and to make the metric space complete, real numbers must be complete.

Refreshments will be served.