Oral Defense Announcement
University of Missouri – St. Louis Graduate School

An oral examination in defense of the dissertation for the degree
Doctor of Education in Educational Practice

Scott F. Osborne
M.S., Geosciences, Mississippi State University, 2012
B.S. Interdisciplinary Studies, Texas State University, 2002

Robert B. Shaw
M.S., Curriculum and Instruction- Teacher Leadership, Southern Illinois University, 2002
B.S. Education, Southern Illinois University, 1993

Using Online Interventions to Address Summer Learning Loss in Rising Sixth-Graders

Date: March 12, 2020
Time: 6:00 p.m. to 8:00 p.m.
Place: Boeing Auditorium, Technology and Learning Center

Abstract
Summer learning loss affects students to different degrees across curriculum areas. Traditional content review methods included workbooks or practice packets that lacked real-time feedback to the student. Optional weekly online math and science review lessons were provided to rising sixth-graders in two Midwestern schools over the ten-week summer break. Students received both automated feedback from the online environment and teacher feedback in response to student questions or information students needed to acquire mastery. Students also had the opportunity to revise and edit their work. A test group, summer computer-based intervention group (SCBI), and a control group, completed a spring semester pre-assessment and a fall semester post-assessment to measure the change in math and science knowledge over the summer. The performance of the SCBI group on the post-assessment was statically significantly higher when compared to the control group.

Defense of Dissertation Committee
Charles Granger Chairperson, Ph.D.
Keith Miller Committee Faculty Member, Ph.D.
Helene Sherman Committee Faculty Member, Ph.D.