



Mastery Practice Exercises: Positive Impact on Student Performance

Scott Houser M.Ed. College of Arts and Sciences, Department of Biology

B225 Human Anatomy

Spring 2024
52 students
Large lecture format
Exams are multiple choice

Build Quizzes

Build large item banks
Organize banks by objective
Mastery practice draws from
100's of different questions

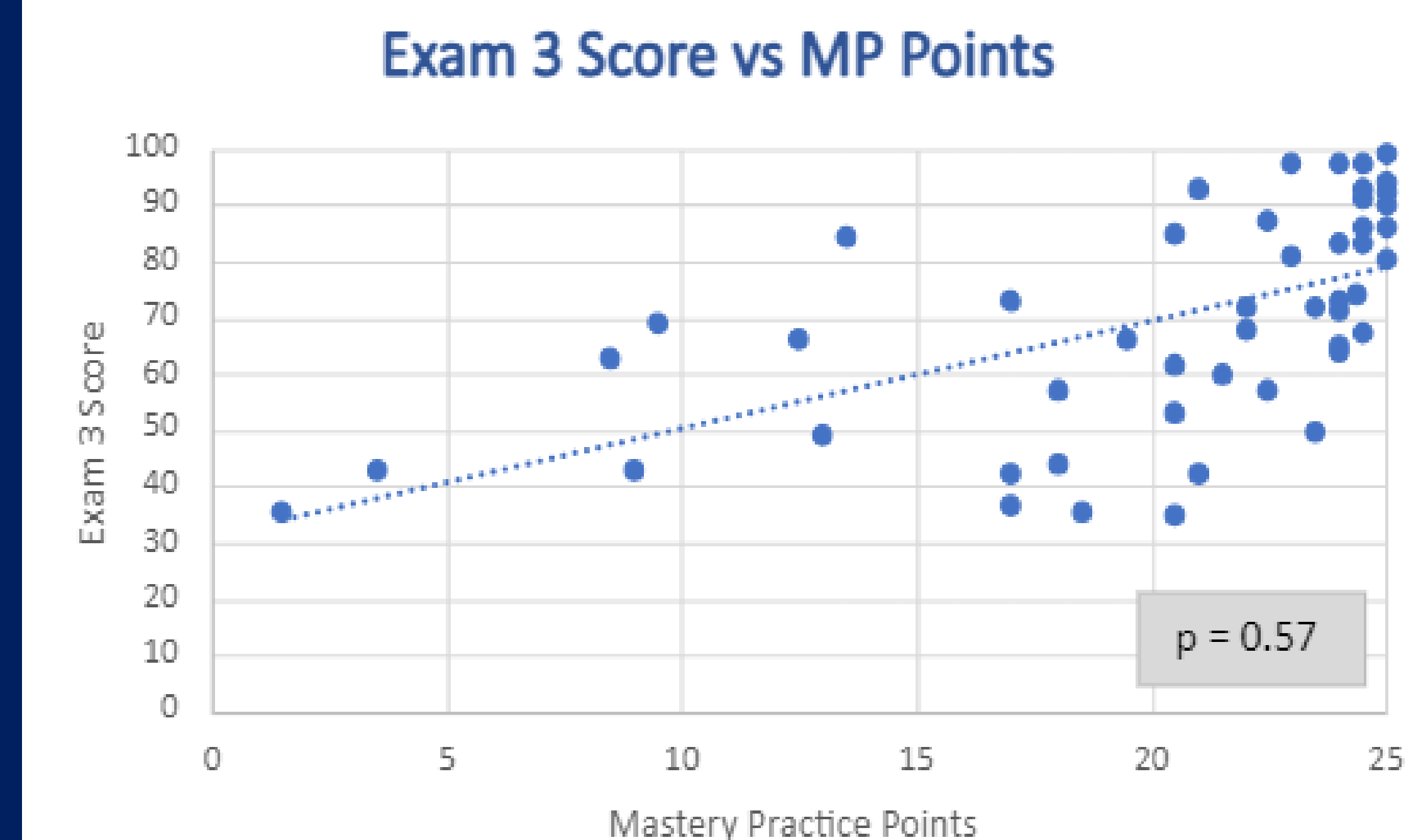
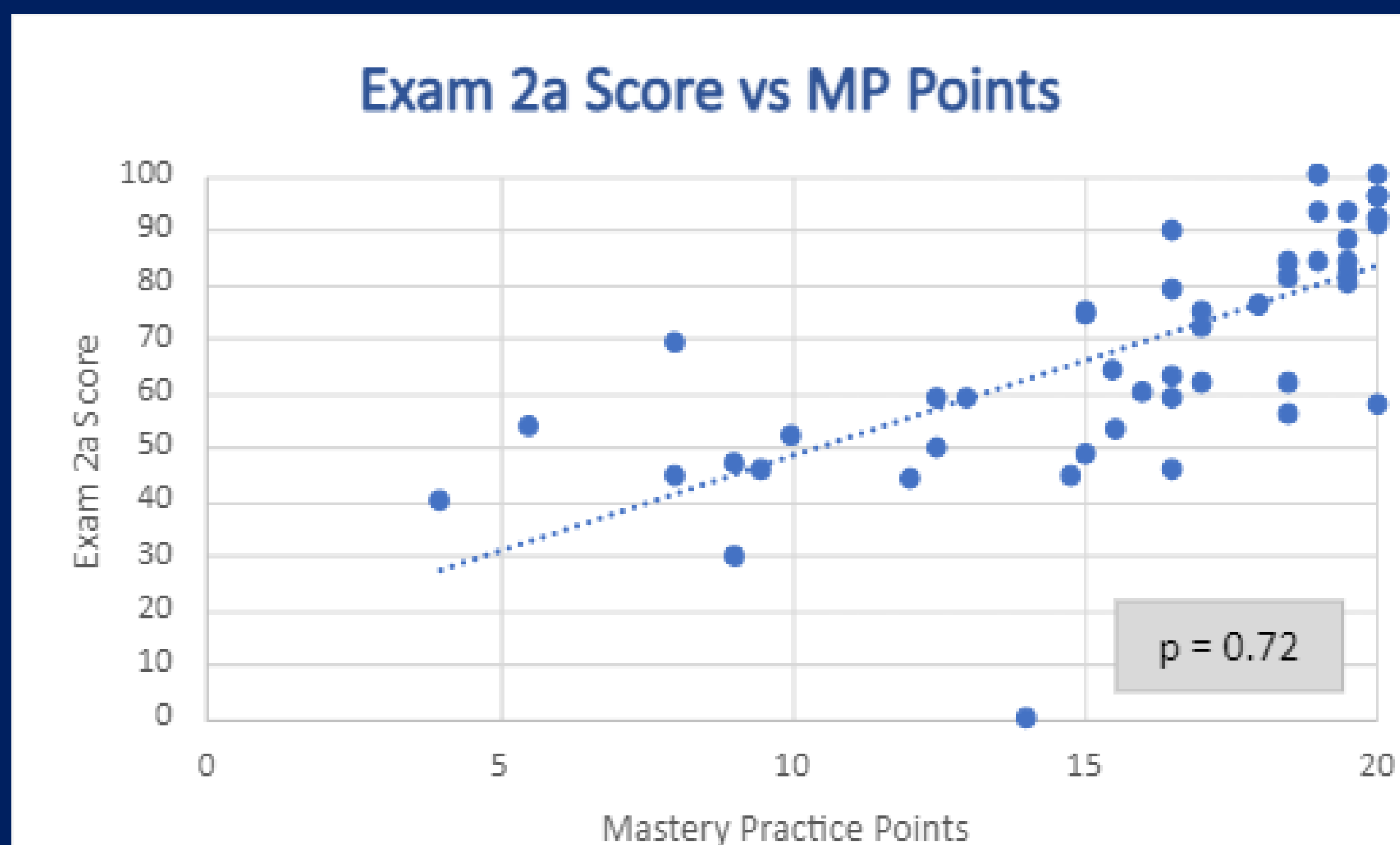
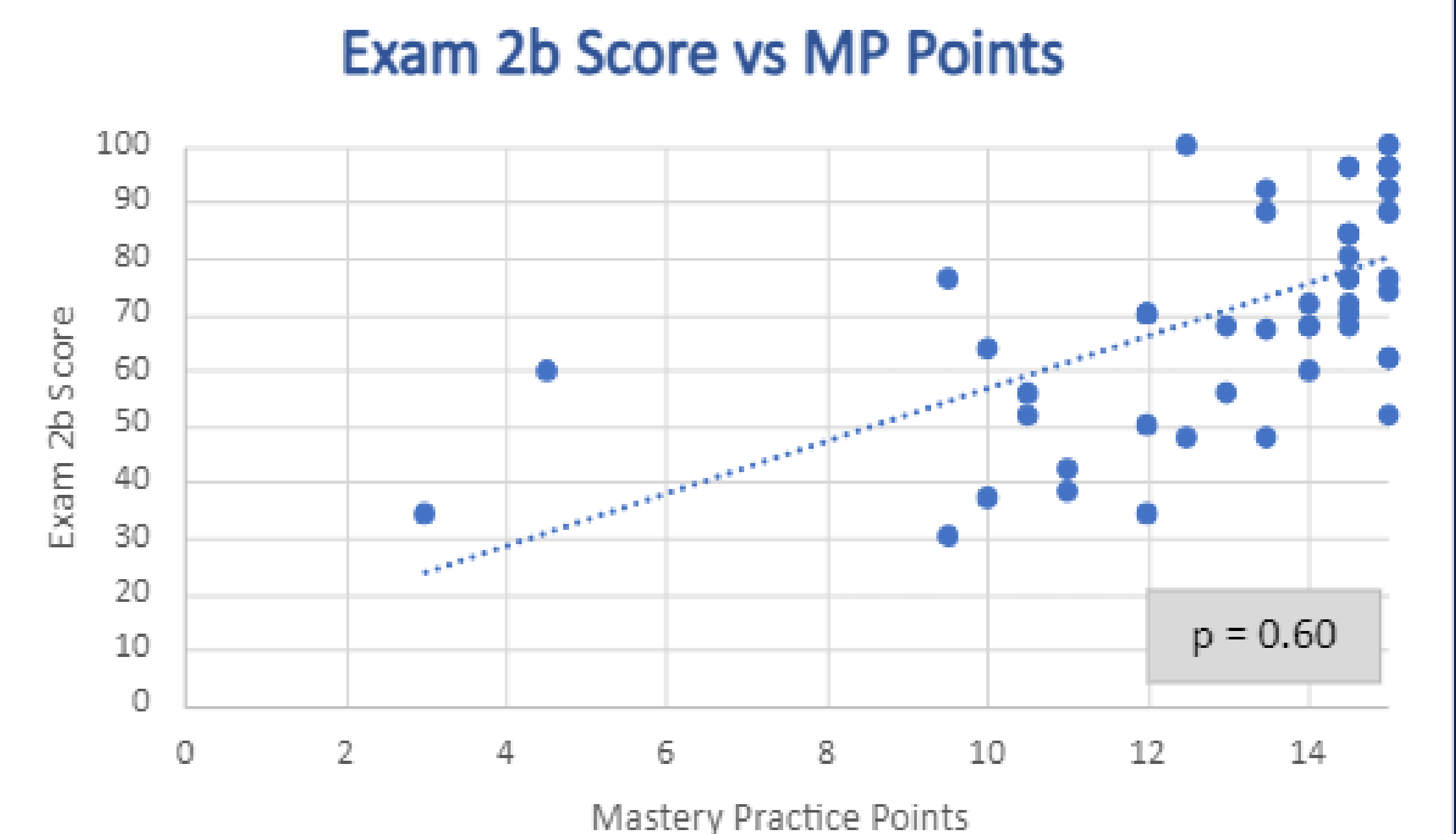
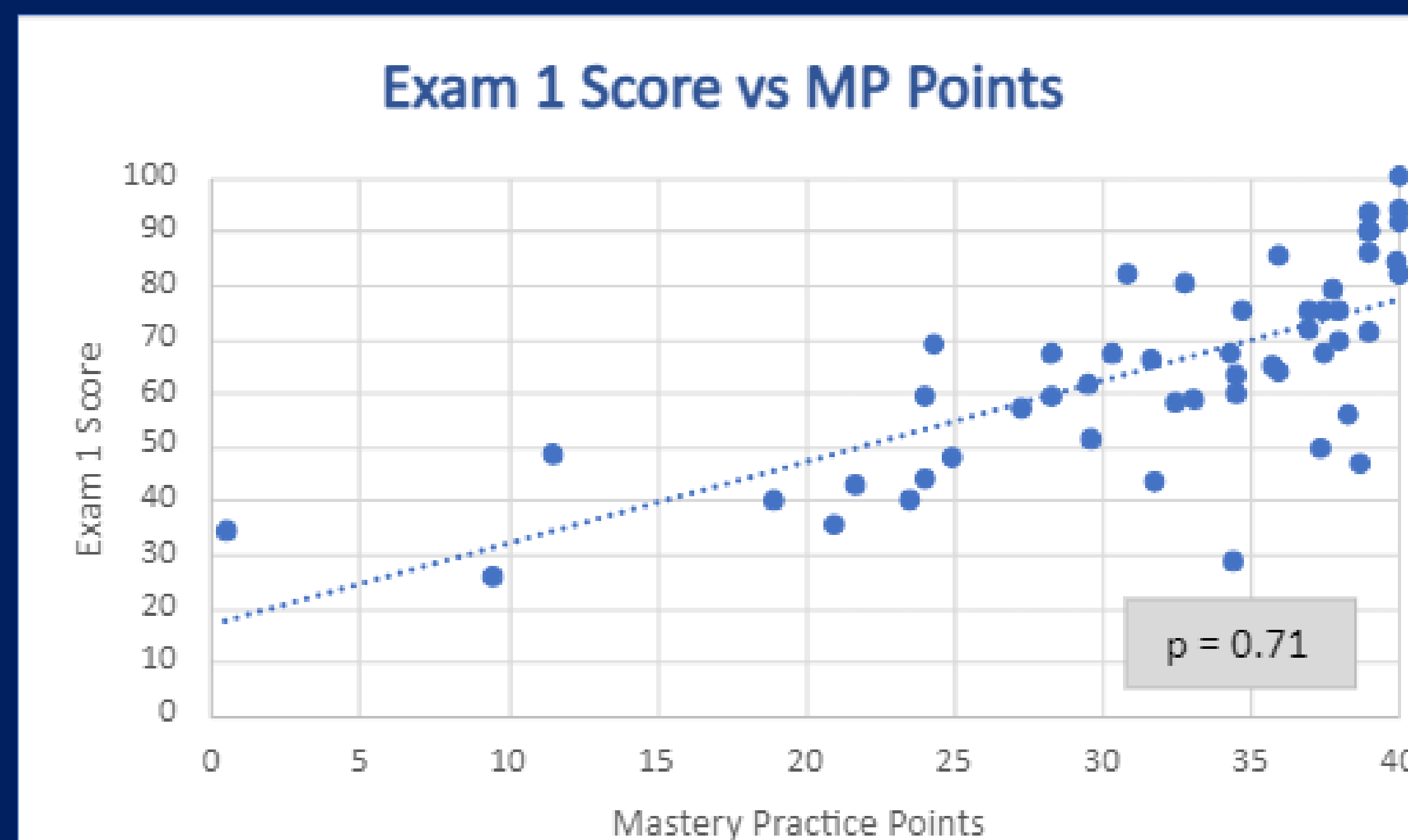
Protocols

Six attempts
Highest score is kept
Treat it like a test
Take notes on what you got
wrong
Locked out for one hour

Impact on Scores

Strong Correlation
 $p = 0.57$ to 0.72

Lecture MPs and Lab exams
 $p = 0.81$



Student Response To Mastery Practice: The anatomy lab course enhanced my ability to understand material in the anatomy lecture class. This course was well-organized and planned. The combination of quizzes, mastery practice activities, hands-on learning, lectures and presentations helped to implement studying habits which are extremely critical for this class. I appreciate my professor for providing these activities and planning strategies.