

**ZMATH 2010f.01210**

**Hawkes, Mark; Hategekimana, Claver**

**Impacts of mobile computing on student learning in the university: A comparison of course assessment data.**

J. Educ. Technol. Syst. 38, No. 1, 63-74 (2009-2010).

Summary: This study focuses on the impact of wireless, mobile computing tools on student assessment outcomes. In a campus-wide wireless, mobile computing environment at an upper Midwest university, an empirical analysis is applied to understand the relationship between student performance and Tablet PC use. An experimental/control group comparison of mobile computing enabled learning outcomes in selected courses showed that the integration of wireless technology and highly functional computing tools did not have a negative effect on student assessment results. Out of the four courses evaluated, none of the revealed test scores were statistically different between non-using and mobile computer using groups, indicating no negative impacts of the introduction of ubiquitous technology into the classroom. A freshman-level college math course showed statistically significantly positive differences in course assessment scores when mobile computing was implemented over the same timeline. Results are discussed.

*Classification:* U75 D35 D65 P75

*Keywords:* information technology; media technology; educational media; information retrieval; research; sciences of education; computer as educational medium; internet; applied computer science; educational diagnosis; mathematics and computers; active learning

doi:10.2190/ET.38.1.g