An evidence-based approach to nursing education involves the use of research to guide teaching/learning strategies. The ACE Star Model of Knowledge Transformation was a useful tool for developing and implementing an evidence-based approach to promoting success on the nursing licensure exam, NCLEX-RN. A review of the literature identified educational strategies intended to improve success on the exam. These strategies included an assessment test, a simulated exam, and an independent study module integrated into a senior course. Evaluation of the strategies revealed improved scores on the NCLEX-RN. Pass rates rose from 87.76 percent in fall 2001 to 94.81 percent in fall 2004.