

FALL
2008

Senior Design *Finalist*



Standing left to right: Mark Braza, Eileen Santo Domingo, Junaid Qureshi, Ryan Williams, Nick Grivas, Vivian Soler

STUDENT TEAM: Mark Braza, Nick Grivas, Junaid Qureshi, Eileen Santo Domingo, Vivian Soler, Ryan Williams

FACULTY ADVISOR: Christos Alexopoulos

PROJECT TITLE: Application of Real-time Simulation to Improve Patient Satisfaction in the Emory Crawford Long Hospital Emergency Department

PROJECT SUMMARY: The team developed a predictive tool for patient wait-times in Emergency Departments. The tool utilizes discrete-event simulation in combination with real-time data to generate predictions. This work will enable low-severity patients to be scheduled in off-peak hours while increasing customer satisfaction and recapturing lost revenue from patients who leave prior to treatment completion.