Title: Develop Tool to Analyze Bus Routes

Instructor(s): Dr. Scott Schultz and Dr. Pablo Biswas

Email: Schultz_sr@mercer.edu and Biswas_p@mercer.edu

Phone: Schultz – 478-301-2840
       Biswas – 478-301-2380

Specialization / Discipline: Industrial Engineering or Operations Research

Description: Investigate methods and techniques to analyze bus routes given bus ridership data patterns. That is, data about the number of riders who enter and exit at each bus stop at various times throughout the day. Analysis will include investigating the impact of adding or removing buses from a route, or introducing buses of various sizes. Once methods and techniques are researched and developed, the goal would be to develop a software tool that would be able to produce performance measures for a route under varying conditions. Possible software should include: Arena Simulation Software, Visual Basic, and/or Excel.

Note: These positions are not for pay.