



The map illustrates the complete bus routes offered by the intra-campus shuttle system. The flags with a dark lower half indicate bus stops for the red route. Flags with a dark upper half denote bus stops for the green route. Solid flags denote bus stops for both routes.

Intra-campus shuttle system provides two free bus routes

By HARVEY LAAS
Battalion Reporter

Yes, it is possible to make it from parking lots 56 and 61 on the west campus to Zachry Engineering Center in 15 minutes. The intra-campus shuttle bus system provides free and reasonably fast service to most parts of the campus. The system began on a trial basis last spring, and has been extended to this fall. The free system follows two routes with two buses per route.

The buses operate from the corner of Lubbock and Bizzell streets from 7 a.m. to 5 p.m.

C.E. Oates, chairman of the Shuttle Bus Committee, said it takes a bus about 20-30 minutes to complete each route. Oates said a bus comes by each stop every 12 to 13 minutes. Riders indicated these times were generally correct.

Although times vary with the amount of traffic, one can expect to travel from Krueger Hall to the west campus in about 10 minutes via the

red route. The trip takes 15 minutes or less on the green route.

The intra-campus shuttle bus is funded with student service fees. Oates said the program costs approximately \$32,000 a semester to operate.

A ridership survey last spring showed an average of 1,422 riders on Mondays, Wednesdays, and Fridays, and 1,146 riders on Tuesdays and Thursdays. Oates said it is too early to determine fall term usage.

The green route travels in a

counter-clockwise direction to Zachry, the College of Veterinary Medicine and the west campus. Then it goes to parking lots 56 and 61 on the west campus, the University Center and back to Krueger Hall.

The red route proceeds in a clockwise direction to the University Center, parking lots 56 and 61, and the west campus. Then it goes to the College of Veterinary Medicine, Milner Hall, the Langford Architecture Center and back to Krueger Hall.

Machine studies heart disease

Medical researchers at Texas A&M University are using a miniaturized kidney machine to attack the problem of rheumatic heart disease. The hemodialysis device will help the scientists find out what changes occur in the body's defenses and how they affect tissue. Rheumatic fever is a disease that sometimes follows streptococcal (strep throat) infection and comes about when the body's immune response attacks its own tissue because of the similarity to antigens of the invading bacteria.

Although the original infection can be handled by medication, little can be done to stop the body's attack on itself. Rheumatic fever contributes significantly to heart disease, says researcher David McMurray.

Approximately 10,000 cases of fatal rheumatic fever are recorded each year, about 10 percent of the total number of reported cases.

At Texas A&M, McMurray is using the capillary system of the small dialysis machine to study the immune response of animals exposed to soluble products of the

streptococcus, which pass through the bacterial culture through the dialysis membrane into the blood.

By isolating the blood flow, McMurray and colleague John Quarles hope to separate early antigens and antibodies from those that occur later in the disease.

Findings may give a key as to just when the body begins its damaging immune response, which bacterial products are important and what might conceivably work to correct the problems.

The approach is unique, McMurray

feels, because the anti-body-antigen relationship occurs naturally in the animals and is not artificially induced by chemical means, the method in some research.

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