

Olsson Associates and Bourne Transit were tasked to create a coordinate transit implementation plan for the *Lawrence Route and Schedule Design for Coordinated Transportation plan*. The implementation plan is to be broken into 2 parts. Phase III part 1 will be implemented in August 2009, Phase III part 2 will be implemented in August 2010. Olsson Associates and Bourne Transit are making six initial recommendations for August 2009 implementation. These recommendations are:

- Produce one coordinated map and timetable brochure, with increased timepoints.
- Use one Information Hotline call number
- Create a new, coordinated route #11, replacing City Route #8 KU / South Iowa / Downtown, KUOW Route #24 31st & Iowa, and KUOW Route #25 Downtown
- Modify the alignment of KUOW Route #26 25th & Melrose
- Interline City Route #4 North Lawrence / Downtown and City Route #3 Iowa & Lakeview / Downtown, and assign smaller vehicles
- Interline City Route #1 Prairie Park Nature Center / Downtown and City Route #2 HINU / Downtown, and explore assigning smaller vehicles

While these recommendations may appear minor in nature, they were in fact created with an eye towards an August 2010 system plan, and as such significant route changes that might be changed again after only a year were avoided. The one major route alignment change is a new coordinated route that combines two university routes and one city route, and is envisioned to be a major spine for an August 2010 transit system. Implementation of these recommendations will increase coordination between the two transit entities, and enable further coordination to be successfully implemented in August 2010. The recommendations are described below.

Recommendation Overview

Produce a coordinated map and timetable brochure

The first recommendation is already being implemented. It was felt necessary to include this as a formal recommendation. The overall purpose of the study is to increase coordination and create a seamless user experience when moving between the two transit entities. Currently valid city bus passes or current KU Cards are accepted on both systems, and the two entities serve many of the same locations. Additionally both entities currently place map and timetable brochures at the same locations throughout the KU campus and Lawrence locations (see Figure 1). However, the current lack of a joint map and timetable brochure presents difficulties to users wanting to access both systems, and increases the perception of two separate entities and services. A coordinated map and timetable brochure will ease customer's ability to transfer between the two systems by allowing them to see KU on Wheels routes and City of Lawrence routes on the same map, as well as the corresponding timetables. A coordinated map and timetable brochure will increase the public perception that the two agencies are increasing their coordination. In addition, it is recommended to include the K10 route and schedule on the coordinated map and timetable.









The coordinated map and timetable brochure should be the main reference for customers of both entities. It is not recommended that either entity produce separate

maps and timetables, except for unique services such as KU On Wheel's late night "SafeBus" service. as separate maps will increase customer confusion and degrade the perception of a coordinated service. KU On Wheels typically updates its schedule and map brochures one to three times per year to reflect operational changes, and differences in summer service. Additionally, the heavy passenger loads experienced by implementation of universal access on KU On Wheel's routes in August 2008 necessitated schedule changes. Passenger loads typically increase in the 2nd year following a universal access policy, meaning that KU on Wheels might have to modify schedules again next year to reflect operational challenges. Lawrence Transit has typically experienced longer timeframes between schedule and map brochure changes. When not experiencing significant operational changes, it is recommended to limit printing maps two times a year, with a KU On Wheels supplement inserted during summer service periods.



It is recommended to place additional timepoints on the coordinated map and timetable brochure than what is on each agency's current timetables. KU On Wheels current schedule generally only references inbound timepoints making it difficult for off-campus passengers to catch out-bound buses or make connections with Lawrence Transit routes. A comment in the winter 2008 survey recommended the route #5 schedules have a timetable reference for Clinton Parkway and Kasold Dr. In addition, there are several areas that would be better served by placing timepoints including Peterson Rd and Arrowhead Dr. Besides these opportunities for additional passenger information, an effort should be made to coordinate joint timepoint locations on the recommended joint schedule. The initial recommended joint timetable locations are 9th St. and Iowa St. for #6 and #28; Bob Billings Parkway and Kasold Dr. for #6 and #27; Checkers (replacing "The Malls" in the current #23 schedule) for #5, #7, and #23; and 31st St. and Iowa St. for #5, #7, and #5. It is realized that there are specific constraints for putting additional timepoints on a coordinated map and schedule brochure, however, the common vocabulary referencing the coordinated timetable locations will make it easier for passengers to transfer from one system to another, even if many of the route transfer opportunities between the two systems remain untimed. Figure 2 displays the current timepoint locations listed in the Lawrence Transit and KU On Wheels schedules. The red squares denote recommended additional / coordinated timepoint locations to be listed in the recommended coordinated map and schedule. These are recommended joint timepoint locations that are not listed on the current schedules.



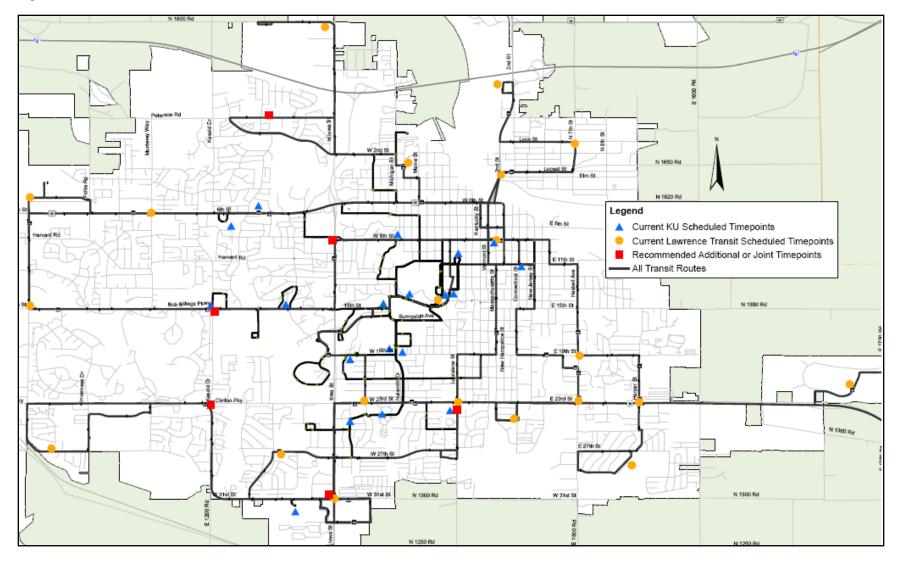








Figure 2: Current KU and Lawrence Transit Scheduled Time Point locations, and Recommended / Joint Timepoints locations













Use one informational hotline number

Currently, even though both services are maintained by one service provider, Lawrence Transit and KU On Wheels maintain separate information hotline numbers. The number listed on Lawrence Transit's current map and brochure is directed to the service provider. KU On Wheel's number is directed to the KU on Wheels office. Similar to separate schedules, maintaining separate informational hotline numbers increases the perception of inefficiency and two uncoordinated entities, while producing a varied customer service experience depending on which system is being accessed. The move should be made to begin publicizing only one number, with a future goal of phasing out the alternative number. Until that time, both entities should maintain and readily distribute current information, including route alignments and schedule information, on all transit alternatives in Lawrence allowing riders to easily obtain either system's information, regardless of what agency is called.

Create a new route #11, replacing route City Route #8 KU / South Iowa / Downtown, KUOW Route #24 31st & Iowa, KUOW Route #25 Downtown

Much of the public comment heard during the week of February 9th indicated frustrations in the downtown-KU-south lowa connection. The City *Route #8 KU / South lowa / Downtown* currently serves this area six days a week until approximately 8:00 p.m., but at only 80 minute intervals. KUOW *Route #24 31st & lowa* currently provides a connection between The Reserves apartment on 31st St. to KU every 30 minutes, but doesn't run past 6:00 p.m. and does not run on weekends or KU breaks. Similarly KUOW *Route #25 Downtown*, which is interlined with KUOW *Route #26 25th & Melrose*, connects downtown Lawrence to KU every 30 minutes, but also does not operate past

6:00 p.m. or on weekends and KU breaks. While there are strong connections between downtown and KU, a trip between downtown and retail on south lowa St. through the KU campus requires either an untimed transfer on campus within the KU service span, or experiencing 80 minute frequencies using the City Route #8 KU / South Iowa / Downtown. This arrangement prevented populations living near campus from relying on the transit system during KU break periods, and frustrated City riders in several comments in the winter 2008 survey.

A new route #11 is proposed that replaces the City Route #8 KU / South Iowa / Downtown, KUOW Route #24 31st & Iowa, and KUOW Route #25 Downtown.

Route #11 would provide a strong connection between downtown Lawrence, the KU campus, high density apartment areas, and retail locations on south Iowa street. This service would generally follow year-round 30 minute service frequencies through the day, but would be 40 minute frequencies in off-peak hours. Figure 4 displays the alignment.





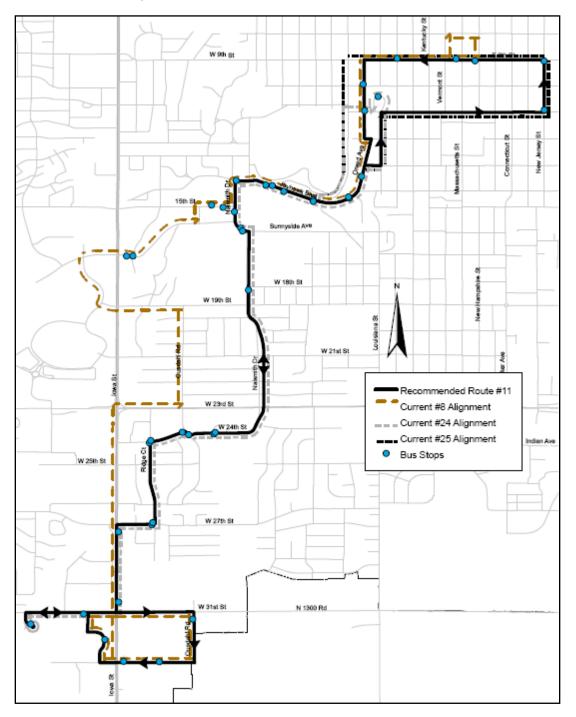








Figure 4: Recommended Route #11 replaces City Route #8 KU / South Iowa / Downtown, KUOW Route #24 31st & Iowa, and KUOW Route #25 Downtown



Serving downtown, the route follows the current KUOW *Route #25 Downtown* alignment serving population areas on 11th St, New Jersey St., 9th St., and Indiana St. to the KU campus. On campus the route begins to follow much of the KUOW Route #24 31st & Iowa route, provide service along Naismith Dr, 24th St, Ridge Ct, 27th St, and Iowa. At Iowa and 31st St., the route deviates from the current KUOW Route #24 31st & Iowa











alignment and beings a one-way south Iowa St. retail loop, similar to the City *Route #8 KU / South Iowa / Downtown* alignment. The alignment turns left on 31st to Ousdahl where it turns right and proceeds to follow 33rd St. and Nieder providing a direct connection to Wal-Mart, Kohls, JC Penny, and Target. At Nieder and 31st the route proceeds left to serve The Reserves apartment complex, after which, it makes an inbound trip bypassing the retail loop.

The retail loop in the route #11 alignment does serve the new student-orientated apartment complex, The Exchange, currently being built on 31st and Iowa. It is realized that the new student population accessing route #11 from The Exchange would cause capacity issues since the current KUOW *Route #24 31st & Iowa* already serves the dense population centers at The Reserves, Campus Court at Naismith, and Naismith/Oliver Hall. Serving this area was felt necessary though to maintain the connection that the Lawrence Transit currently provides from downtown to the retail surrounding 33rd St. and Iowa St. The alternative, bypass serving Ousdahl St. and running service only on Iowa St. and Nieder St adjacent to the Target store parking lot, creates a barrier by requiring shoppers to cross six-lanes of Iowa St. and navigating landscape berms and large parking lots to access shopping on the west side of Iowa St. The recommended retail loop, which by default serves The Exchange, is necessary for this route to truly serve both KU On Wheel purposes and Lawrence Transit purposes.

Route #11 would provide an opportunity for the Lawrence Transit and KU On Wheels to operate a single route for a year with truly coordinated service that successfully serves both entities missions while eliminating duplicated service between routes City *Route #8 KU / South Iowa / Downtown*, KUOW *Route #24 31st & Iowa*, and KUOW *Route #25 Downtown*. Successful implementation of this fully coordinated route would be a precursor test for a more fully coordinated transit system in August 2010. Costs would be allocated between KU On Wheels and Lawrence Transit based on each entity's' service span. KU On Wheels would pay for the route during the KU On Wheels service hours of approximately 7:00 a.m. to 5:00 p.m. while KU is in session, Lawrence Transit would pay for the route during evening and Saturday service, and on breaks when KU is not in session. This arrangement is the heart of coordinating transit service between the two agencies, as routes lose ownership by only one agency, and instead are "owned" by both agencies.

Route 11's alignment is recommended to change slightly on the weekend and evenings. Instead of following Naismith Dr. through the KU campus, the route will proceed on 15th, Burdick Dr., and Irving Hill Rd. to access the student dormitory on Daisy Hill. It follows 19th St. to Naismith Dr. and proceeds south matching the weekday alignment. This removes weekend service along Naismith Dr. from 15th St. to 19th St. The rest of the alignment is not changed. This slight alignment shift will provide an evening and weekend downtown – south Iowa connection for students living in the dormitories. Figure *5* displays the weekend and evening alignment.



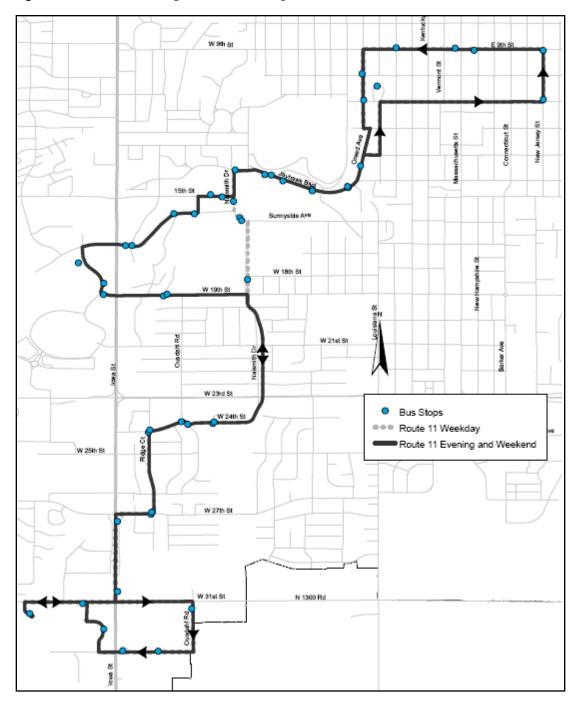








Figure 5: Route #11 Evening and Weekend Alignment



A detailed comparison of revenue hours required for the current route #8 and the proposed route #11 is shown in Table 1.











Table 1 – Revenue Hour Comparison

Route 8	Rev- hrs	Days	Year Rev Hrs			
6:13 am to 8:00 pm	13.8	308	4250.4			
						Total
Proposed Route 11	hdwy	Start	End	Rev-Hr/Day	Days	Rev-hr
Service when KUOW does not operate						
Summer	40	7:00 am	5:40 pm	21.33	67	1429.11
Winter Break	40	7:00 am	5:40 pm	21.33	13	277.29
Spring Break	40	7:00 am	5:40 pm	21.33	5	106.65
Saturdays	40	8:00 am	7:40 pm	22.33	57	1272.8
Service at all times						
All wkdy early eve	80	5:40 pm	8:20 pm	2.67	255	680.85
All wkdys early AM	80	5:40 am	7:00 am	1.33	255	339.15
Total						4105.85

As shown in the Table, the proposed route #11 would require 144.55 fewer revenue hours than the current route City *Route #8 KU / South Iowa / Downtown*. This would equate to an annual savings of approximately \$4,600.

Finally, it should be acknowledged that capacity issues could arise at certain peak periods when University classes are in session. These could be addressed by adding 3 morning trippers and 3 afternoon trippers. This would require approximately 500 revenue hours annually.

Modify the alignment of route KUOW Route #26 25th & Melrose

The new route #11 would require alignment changes to KUOW Route #26 25th & Melrose for two reasons. First, route #26 is currently interlined with KUOW Route #25 Downtown. Route #25 currently serves downtown but is recommended to be replaced with route #11. Secondly, route #11 will require three buses to operate 30 minute frequencies on the route, an increase of one bus from the current route #24 alignment. To accomplish this, a bus will be reassigned from route #26 to route #11. 30 minute frequencies on route #26 will be maintained by shortening the alignment. Currently the route travels the entire length of Jayhawk Blvd and Oread Ave. to interline with KUOW Route #25 Downtown. The new alignment will create a one-way, counter-clockwise loop consisting of Sunnyside Ave, Sunflower Rd, Jayhawk Blvd, and Naismith Dr, before continuing the outbound trip along Naismith Dr. The counterclockwise











movement is important to maintain the north side of Jayhawk Blvd as the passenger waiting location for southbound travel. The southern portion of the current KUOW Route #26 25th & Melrose alignment will remain unchanged. Figure 6 displays the new alignment.

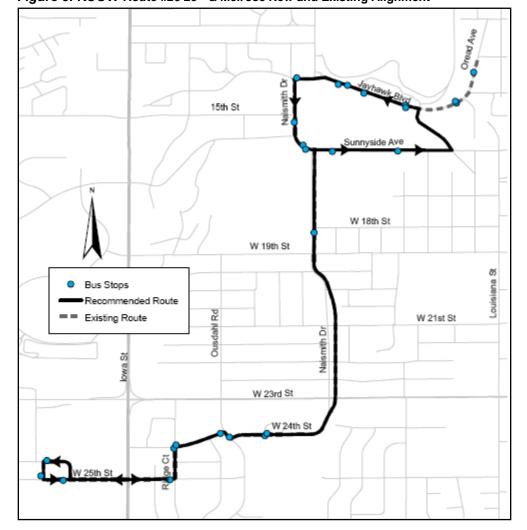


Figure 6: KUOW Route #26 25th & Melrose New and Existing Alignment

Interline Route #3 and Route #4 together, and Interline Route# 1 and Route #2 together

Currently City Route #3 Iowa & Lakeview / Downtown and City Route #2 HINU / Downtown are interlined together, and City Route #1 Prairie Park Nature Center / Downtown and City Route #4 North Lawrence / Downtown are interlined together (interlining occurs when a vehicles finishes the inbound trip of one route, and begins the outbound trip of a separate route). It is recommended to break the current connections and interline route #3 and route #4 instead. Ridership data is combined for each











interlined route pair and cannot be assigned to a specific route within a pair, however conversations with Lawrence Transit staff and MV drivers have indicated that *Route #3 Iowa & Lakeview / Downtown* and *Route #4 North Lawrence / Downtown* have fewer passengers than *Route #1 Prairie Park Nature Center / Downtown* and *Route #2 HINU / Downtown*, suggesting that route #3 and route #4 are strong candidates for service changes in August 2010 when more specific ridership data has been collected. Interlining route #3 and route #4 will make it easier to make any service changes to these areas in 2010 without affecting the rest of the system. Revenue hours for the two new interlined pairs will remain unchanged in August 2009.

Minor route modifications will be required for the downtown portions of the new interlined pairs. Currently, route #3 and route #4 finish their inbound trips by proceeding east on 9th St from Vermont Street to the transit shelter on the south side of 9th Street between Massachusetts and New Hampshire Street. At this point they begin the outbound trips as their respective interlined partner. The new interlined pairing will require route #3 and route #4 to both exit the downtown area using northbound New Hampshire Street, westbound 8th Street, and northbound Kentucky Street, before proceeding on the designated route. This modification will also mean that only the transit shelter on the south side of 9th Street between Massachusetts and New Hampshire Street will be served by route #3 and route #4.

Likewise, currently route #1 and route #2 begin their outbound trips by proceeding east on 9th Street from the transit shelter on the south side of 9th Street between Massachusetts Street and New Hampshire Street. The new interlined pairing will require the two routes to begin their outbound trips by proceeding west on 9th Street from the transit shelter on the north side of 9th Street between Massachusetts Street and Vermont Street. Route #1 and Route #2 will exit the downtown area using westbound 9th Street, northbound Vermont Street, eastbound 8th Street, and southbound New Hampshire Street, before proceeding eastbound on 9th Street on their designated alignments. This modification of the downtown portion of the routes means that only the transit shelter on the north side of 9th Street between Massachusetts Street and Vermont Street will be served by route #1 and route #2.

The modifications to the downtown portions of route #1, route #2, route #3, and route #4, are the only route alignment changes recommended for these routes in this report. Complete run guides for all modified routes discussed in this report are included as Appendix A.

The rearranging of interlined pairs will likely have little impact on ridership numbers for August 2009. Separated ridership numbers for each portion of interlined routes were unable to be collected in the short time of this phase, however current ridership numbers and conversations with bus drivers and Lawrence Transit administrative staff suggests with relative certainty that the new interlined pair of #3 and #4 can be served by cutaway vehicles. Analysis of ridership numbers suggests that #1 and #2 routes would also be suited for the use of cutaway vehicles. More specific ridership data will need to be collected before the tentative recommendation regarding #1 and #2 could be more fully recommended, however several field observations noted that cutaway vehicles are currently being used for many of the trips on #2 and #3, and #1 and #4 interlined routes.











Appendix A - Run Guides

Route 1

(interlined with Route 2)

Outbound

- Begin at Penny Annie-side transit shelter facing west.
- Proceed west onto 9th St. to Vermont St.
- Turn right (north) onto Vermont St. to 8th St.
- Turn right (east) onto 8th St. to New Hampshire St.
- Turn right (south) onto New Hampshire St. to 9th St.
- Turn left (east) onto 9th St. to Delaware St.
- Turn right (south) onto Delaware St. to 11th St.
- Turn left (east) onto 11th St. to Haskell Ave.
- Turn right (south) onto Haskell Ave. to 19th St.
- Turn left (east) onto 19th St. to Harper St.
- Turn right (south) onto Harper St. to 25th Terr.
- Turn left (east) onto 25th Terr to Harper St.
- Turn right (south) onto Harper St. to 27th St.
- Turn right (west) onto 27th St. to Harper St.
- Turn left (south) onto Harper St. to Prairie Park Nature Center.
- Turn left (east) into Prairie Park Nature Center turn-around.
- Begin inbound trip.

- Begin at Prairie Park Nature Center turn-around.
- Proceed out of the Prairie Park Nature Center turn-around to Harper St.
- Turn left (south) onto Harper St. to 28th Terr.
- Turn right (west) onto 28th Terr. to Haskell Ave.
- Turn right (north) onto Haskell Ave. to 27th St.
- Turn right (east) onto 27th St. to Harper St.
- Turn left (north) onto Harper St. to 25th Terr.
- Turn left (west) onto 25th Terr. to Harper St.
- Turn right (north) onto Harper St. to 19th St.
- Turn left (west) onto 19th St. to Haskell Ave.
- Turn right (north) onto Haskell Ave. to 11th St.
- Turn left (west) onto 11th St. to Delaware St.
- Turn right (north) onto Delaware St. to 9th St.
- Turn left (west) onto 9th St. to Penny Annie-side transit shelter.
- Begin route 2 outbound trip.











(interlined with Route 1)

Outbound

- Begin at Penny Annie-side transit shelter facing west.
- Proceed west onto 9th St. to Vermont St.
- Turn right (north) onto Vermont St. to 8th St.
- Turn right (east) onto 8th St. to New Hampshire St.
- Turn right (south) onto New Hampshire St. to 9th St.
- Turn left (east) onto 9th St. to Connecticut St.
- Turn right (south) onto Connecticut St. to 11th St.
- Turn left (east) onto 11th St to New Jersey St.
- Turn right (south) onto New Jersey St. to 15th St.
- Turn right (west) onto 15th St. to Barker Ave.
- Turn left (south) onto Barker Ave. to 19th St.
- Turn left (east) onto 19th St. to Moodie Rd.
- Turn right (south) onto Moodie Rd. to 20th St.
- Turn left (east) onto 20th St. to Haskell Ave.
- Turn right (south) onto Haskell Ave. to 23rd St.
- Turn right (west) onto 23rd St. to Massachusetts St.
- Turn left (south) onto Massachusetts St. to Indian Ave.
- Turn left (east) onto Indian Ave. to Barker Ave.
- Turn left (north) onto Barker Ave to transit shelter.
- Begin inbound trip.

- Begin at transit shelter on Indian Ave at Barker Ave, facing north.
- Proceed north on Barker Ave. to 23rd St.
- Turn right (east) onto 23rd St. to Haskell Ave.
- Turn left (north) onto Haskell Ave. to 20th St.
- Turn left (west) onto 20th St. to Moodie Rd.
- Turn right (north) onto Moodie Rd. to 19th St.
- Turn left (west) onto 19th St. to Barker Ave.
- Turn right (north) onto Barker Ave. to 15th St.
- Turn right (east) onto 15th St. to New Jersey St.
- Turn left (north) onto New Jersey St. to 11th St.
- Turn left (west) onto 11th St. to Connecticut St.
- Turn right (north) onto Connecticut St. to 9th St.
- Turn left (west) onto 9th St. to Penny Annie-side transit shelter.
- Begin route 1 outbound trip.











(interlined with Route 4)

Outbound

- Begin at Bank-side transit shelter facing east.
- Proceed east on 9th St. to New Hampshire St.
- Turn left (north) onto New Hampshire St. to 8th St.
- Turn left (west) onto 8th St. to Kentucky St.
- Turn right (north) onto Kentucky St. to 6th St.
- Turn left (west) onto 6th St. to Maine St.
- Turn right (north) onto Maine St. to 4th St.
- Turn left (west) onto 4th St. to Arkansas St.
- Turn right (north) onto Arkansas St. to 3rd St.
- Turn left (west) onto 3rd St. to Michigan St.
- Turn right (north) onto Michigan St. to 2nd St.
- Turn left (west) onto 2nd St. to N lowa St.
- Turn right (north) onto N Iowa to Lakeview Rd.
- Turn left (west) onto Lakeview Rd to the western entrance of the Lawrence Paper Company parking lot.
- Turn left (south) into western entrance of the Lawrence Paper Company Parking lot.
- Begin inbound trip

- Begin at parking lot of Lawrence Paper Company facing east.
- Proceed out of the eastern exit of the parking lot to Lakeview Rd.
- Turn right (east) onto Lakeview Rd to N Iowa St.
- Turn right (south) onto N lowa St. to Peterson Rd.
- Turn right (west) onto Peterson Rd to Princeton Blvd.
- Turn left (south) onto Princeton Blvd to 2nd St.
- Proceed straight (east), onto 2nd
 St to Michigan St.
- Turn right (south) onto Michigan St. to 3rd St.
- Turn left (east) onto 3rd St. to Arkansas St.
- Turn right (south) onto Arkansas St. to 4th St.
- Turn left (east) onto 4th St. to Maine St.
- Turn right (south) onto Maine St. to 6th St.
- Turn left (east) onto 6th St. to Vermont St.
- Turn right (south) onto Vermont St. to 9th St.
- Turn left (east) onto 9th St. to Bank-side transit shelter.
- Begin as Route 4 outbound trip.











(interlined with Route 3)

Outbound

- Begin at Bank-side transit shelter facing east.
- Proceed east on 9th St. to New Hampshire St.
- Turn left (north) onto New Hampshire St. to 8th St.
- Turn left (west) onto 8th St. to Kentucky St.
- Turn right (north) onto Kentucky St. to 6th St.
- Turn right (east) onto 6th St. to N 2nd St / US 40 bridge.
- Turn left (north) onto N 2nd St / US 40 bridge to Locust St.
- Turn right (east) onto Locust St to N 7th St.
- Turn left (north) onto 7th St. to Lyon St.
- Turn left (west) onto Lyon St. to N 2nd St. / US 40.
- Turn right (north) onto N 2nd St. / US 40 to north parking entrance of I-70 Business Park.
- Turn left (west) into north parking entrance of I-70 Business Park.
- Begin outbound trip.

- Begin in I-70 Business Park parking lot facing south.
- Proceed to southern parking lot exit of I-70 Business Park.
- Turn right (south) onto N 2nd St / US 40 to Lyon St.
- Turn left (east) onto Lyon St. to N 7th St.
- Turn right (south) onto N 7th St. to Locust St.
- Turn right (west) onto Locust St. to N 2nd St. / US 40.
- Turn left (south) onto N 2nd St / US 40 to N 2nd St / US 40 bridge.
- Continue south onto N 2nd St / US 40 bridge to Vermont St.
- Continue south onto Vermont St. to 9th St.
- Turn left (east) onto 9th St. to Bank-side transit shelter.
- Begin as Route 3 outbound trip.











Route 11 Weekday

Outbound

- Begin at Penny Annie-side
- Go west on 9th St to Indiana St.
- Turn left (south) onto Indiana St to 12th St.
- Turn right (east) onto 12th St. to Oread Ave.
- Turn right onto Oread Ave.
- Continue onto Jayhawk Blvd. to Chi Omega Fountain.
- At Chi Omega Fountain turn right (west) onto Crescent Dr to Naismith Dr.
- Turn left (south) onto Naismith Drive to 24th St.
- Continue right (west) onto 24th St. to Ousdahl Rd.
- Turn right (north) onto Ousdahl Rd. to 24th St
- Turn left (west) onto 24th St. to Ridge Ct.
- Turn left (south) onto Ridge Ct. to 27th St.
- Turn right (west) onto 27thSt. to lowa St.
- Turn left (south) onto lowa St. to 31st St.
- Turn left (east) onto 31st St. to Ousdahl Rd.
- Turn right (south) onto Ousdahl Rd. to 33rd
 St
- Turn right (west) onto 33rd St. to Neider Dr.
- Turn right (north) onto Neider Dr. to 31st St.
- Turn left (west) onto 31st St. to The Reserve's driveway.
- Turn left (south) onto Reserves Driveway
- Go around circle drive, begin inbound trip.

- Continue on The Reserves driveway to 31st St
- Turn right (east) onto 31st St. to Iowa St.
- Turn left (north) onto lowa St. to 27th St.
- Turn right (east) onto 27th St. to Ridge Ct.
- Turn left (north) onto Ridge Ct. to 24th St.
- Turn right (east) onto 24th St. to Ousdahl Rd.
- Turn right (south) onto Ousdahl Rd to 24th St
- Turn left (east) onto 24th St to Naismith Dr.
- Continue left (north) onto Naismith Dr. to Crescent Dr.
- Turn right (east) onto Crescent Dr. to Jayhawk Blvd.
- At Chi Omega Fountain turn right (east) onto Jayhawk Blvd.
- Continue onto Oread Ave to 12th St.
- Turn right (east) onto 12th St. to Louisiana St
- Turn left (north) onto Louisiana St. to 11th St.
- Turn right (east) onto 11th St. to New Jersey St
- Turn left (north) onto New Jersey St. to 9th St.
- Turn left (west) onto 9th St. to Penny Annieside (9th St. and Massachusetts St).
- Begin outbound trip.











Route 11 Evening and Weekend

Outbound

- Begin at Penny Annie-side
- Go west on 9th St to Indiana St.
- Turn left (south) onto Indiana St to 12th St.
- Turn right (east) onto 12th St. to Oread Ave.
- Turn right onto Oread Ave.
- Continue onto Jayhawk Blvd. to Chi Omega Fountain.
- At Chi Omega Fountain turn right (west) onto Crescent Dr. to Naismith Drive.
- Turn left (south) onto Naismith Drive to 15th St.
- Turn right (west) onto 15th St to Burdick Dr.
- Turn left (south) onto Burdick Dr. to Irving Hill Rd.
- Turn right (north) onto Irving Hill Rd. to Constant Ave.
- Turn left (south) onto Constant Ave. to 19th St
- Turn left (east) onto 19th St to Naismith Dr.
- Turn right (south) onto Naismith Dr. to 24th St.
- Continue right (west) onto 24th St. to Ousdahl Rd.
- Turn right (north) onto Ousdahl Rd. to 24th St.
- Turn left (west) onto 24th St. to Ridge Ct.
- Turn left (south) onto Ridge Ct. to 27th St.
- Turn right (west) onto 27thSt. to Iowa St.
- Turn left (south) onto Iowa St. to 31st St.
- Turn left (east) onto 31st St. to Ousdahl Rd.
- Turn right (south) onto Ousdahl Rd. to 33rd
- Turn right (west) onto 33rd St. to Neider Dr.
- Turn right (north) onto Neider Dr. to 31st St.
- Turn left (west) onto 31st St. to The Reserve's driveway.
- Turn left (south) onto Reserves Driveway
- Go around circle drive, begin inbound trip.

- Continue on The Reserves driveway to 31st St
- Turn right (east) onto 31st St. to Iowa St.
- Turn left (north) onto Iowa St. to 27th St.
- Turn right (east) onto 27th St. to Ridge Ct.
- Turn left (north) onto Ridge Ct. to 24th St.
- Turn right (east) onto 24th St. to Ousdahl Rd.
- Turn right (south) onto Ousdahl Rd to 24th St.
- Turn left (east) onto 24th St to Naismith Dr.
- Continue left (north) onto Naismith Dr. to 19th St.
- Turn left (west) onto 19th St. to Constant Ave
- Turn right (north) onto Constant Ave. to Irving Hill Rd.
- Turn right (east) onto Irving Hill Rd. to Burdick Dr.
- Turn left (north) onto Burdick Dr. to 15th St.
- Turn right (east) onto 15th St. to Naismith Dr.
- Turn left (north) onto Naismith Dr to Crescent Dr.
- Turn right (east) onto Crescent Dr. to Jayhawk Blvd.
- At Chi Omega Fountain turn right (east) onto Jayhawk Blvd.
- Continue onto Oread Ave to 12th St.
- Turn right (east) onto 12th St. to Louisiana St
- Turn left (north) onto Louisiana St. to 11th St.
- Turn right (east) onto 11th St. to New Jersey St.
- Turn left (north) onto New Jersey St. to 9th St
- Turn left (west) onto 9th St. to Penny Annieside (9th St. and Massachusetts St).
- Begin outbound trip.











Outbound

- Begin on Jayhawk Blvd at Bailey Hall
- Go west on Jayhawk Blvd to Chi Omega Fountain.
- At Chi Omega Fountain turn right (west) on Crescent Rd. to Naismith Dr.
- Turn left (south) onto Naismith Dr. to 24th St.
- Turn right (west) onto 24th St. to Ousdahl Rd.
- Turn right (north) onto Ousdahl Rd to 24th St.
- Turn left (west) onto 24th St. to Ridge Ct.
- Turn left (south) onto Ridge Ct. to 25th St.
- Turn right (west) onto 25th St. to Melrose Ln.
- Turn right (north) onto Melrose Ln to through driveway.
- Begin inbound trip

- Turn left (south) onto through driveway to 25th St.
- Turn left (east) onto 25th St. to Ridge Ct.
- Turn left (north) onto Ridge Ct. to 24th St.
- Turn right (east) onto 24th St. to Ousdahl St.
- Turn right (south) onto Ousdahl St. to 24th St.
- Turn left (east) onto 24th St. to Naismith Dr.
- Turn left (north) onto Naismith Dr. to Sunnyside Ave.
- Turn right (east) onto Sunnyside Ave. to Sunflower Rd.
- Turn left (north) onto Sunflower Rd. to Jayhawk Blvd.
- Turn left (west) onto Jayhawk Blvd.
- Begin outbound trip.







