

PROJECT STEERING COMMITTEE

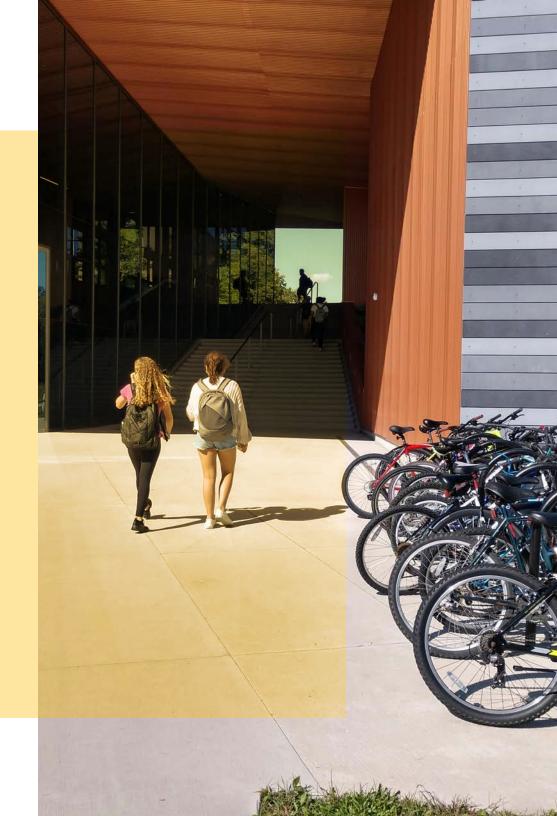
The Transportation Master Plan process has been guided by a Steering Committee, consisting of representatives from a variety of WMU departments and student groups. The Steering Committee has been engaged during project initiation and visioning efforts and has advised on the assessment of existing conditions that were addressed in the

Existing Conditions Report. They have also informed the broader campus and community engagement process, ensuring that key stakeholders were provided with opportunities for input throughout the planning process.

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David Dakin	Director of Planning, Space Mgmt. & Capital Projects	Facilities Management
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EXECUTIVE SUMMARY

The Transportation Master Plan

Over the years, Western Michigan University (WMU) has focused on campus planning and investment in a somewhat piecemeal manner, honing in on specific campus geographies or facilities. Although transportation, and parking in particular, has been a consistent focal point for many of these efforts, WMU had not completed a comprehensive and holistic assessment of campus transportation that includes programs, services, and facilities, keying in on understanding the user experience from its students, faculty, staff, and visitors.

This Transportation Master Plan (TMP) will guide WMU through a series of comprehensive, strategic, and practical improvements to campus mobility within a defined timeline, from near-term "quick wins" (e.g., within months) to long- term opportunities (e.g., 10 years). The TMP addresses challenges connected to travel safety, internal connectivity, parking management, shuttle bus programming and operations, transportation programming, and administrative policies.

This document outlines specific recommendations for all modes of transportation, providing a standing resource to support and complement Western's ongoing strategic planning and investment efforts, and to foster growth and development for all WMU community members.



Campus Wayfinding at International Flags Plaza

The TMP will guide WMU through a series of comprehensive, strategic, and practical improvements to campus mobility."

Plan Elements

This document begins with an overview of the Vision and Goals established by the Steering Committee, in coordination with the Plan's engagement efforts. The engagement efforts are summarized in the following section and included four (4) open houses, a campus transportation survey, and a series of focus group meetings with key stakeholders. The Plan's Existing Conditions Assessment and Plan Strategies are summarized around the following key themes:

- Parking
- Transit
- Active Transportation (walking & biking)
- Traffic & Circulation
- Transportation Demand Management

The Plan concludes with an Implementation Plan, including a series of nearterm action steps and cost estimates, quick wins, and medium to long-term considerations.



Bike parking outside of Sangren Hall

TMP Vision

As a nationally and internationally recognized university of choice, Western Michigan University will create a campus that is accessible to all by providing a sustainable network of transportation options that engender a safe, convenient, walkable, and vibrant place where our community can live, learn, discover, work, and engage.

TMP Goals

As part of the development of the "Vision and Strategy Development Framework," the TMP Vision and Goals established the core values and desired outcomes of the Plan. The Framework also included more specific objectives - tied to each goal - that helped to guide the development of the strategies and recommendations in the final Plan.



Increase Connectivity to
Downtown Kalamazoo and
Adjacent Neighborhoods:
Leverage and enhance physical
connections between campus and
community for shared benefit and
strengthened ties.



Create a Safe and Walkable Campus: Improve safety and connectivity through the design and maintenance of sidewalks, pathways, streets, & intersections and supporting programs & services.



Build a Comprehensive and Well-Used Bicycle Network: Foster a healthy, sustainable and connected campus with safe, comfortable, and contiguous bicycle accommodations to and through campus.



Provide Robust, Efficient, and Convenient Transit Service that serves the needs of all users: Support coordination and enhancement of Bronco Bus and Metro Transit services to grow ridership and accommodate trips to, within, and between campuses.



Provide and manage efficient and adequate vehicle parking accommodations: Focus on a comprehensible, convenient, right-sized parking system that serves the diverse needs of students, employees, and visitors.



Highlight Mobility and Access as a tool to attract and retain: Provide mobility programs, services, and amenities that help WMU stand out as a desirable destination for students, faculty and staff.



Create and Enhance Campus Accessibility for users of all abilities: Remove barriers, provide amenities, and become a model in campus accessibility.



Integrate Technology and Emerging Mobility options into TMP solutions: Plan for smart investment in near- and long-term future of campus mobility through integration of emerging best practices and projection of future needs.



Prioritize Cost-Effectiveness: Understand cost-benefit and risks of transportation investments and impacts on broader University fiscal health.



Support the Redevelopment of the WMU Campus: Implement sustainable and forward-thinking transportation projects and programs that align with the strategic goals of the Gold Standard and Campus Master Plan.





2

COMMUNITY ENGAGEMENT

Engagement

Open Houses

The engagement process was guided by the Steering Committee and began with a comprehensive campus transportation survey in April – May 2019. Two spring open houses were held on April 3rd and 4th at the Bernhard Center and were attended by more than 100 faculty, staff, students, and community members. Focus group meetings were also held in the spring with a series of on- and off-campus stakeholders, including:

- Transportation Master Plan Steering Committee
- · WMU Office for Sustainability
- Western Student Association
- Residence Housing Association
- Office of Disability Services for Students
- WMU Administrative Professional Association (APA)
- · City of Kalamazoo
- Kalamazoo Metro Transit
- Kalamazoo Area Transportation Study

The Plan's evolving themes and strategies were shared in June at WMU's Summer Conference on Livable Communities and during focus group sessions with students and representatives from adjacent Kalamazoo neighborhoods.

Two fall open houses were held on September 26th at the Bernhard Center, with the campus community providing valuable feedback on draft strategies that informed the final recommendations in this plan.

A project website was hosted by the Office of Capital Projects at https://wmich.edu/capitalprojects/parking-transportation-study.



Drop in at the Bernhard Center during one of the two sessions listed

Additional information about the Transportation Master Plan efforts can be found online at: wmich.edu/capitalprojects/parking-transportation-study

above to meet with the project teams and learn more.

Hilltop Village roadway.

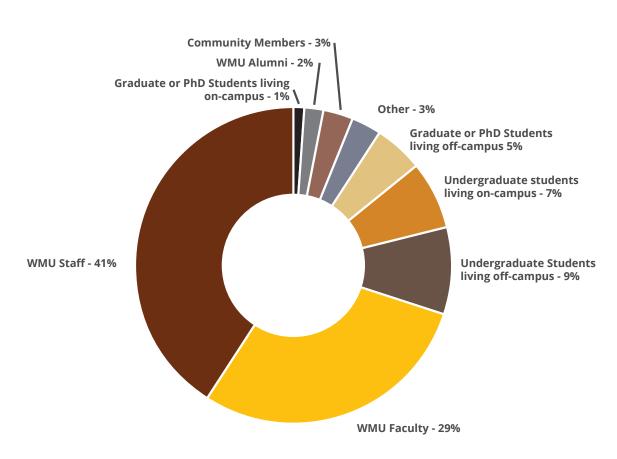


What we heard:

- The **walking campus** is a shared goal, but remains a work-in-progress.
- Today's campus is a "drive first" and often "drive again" destination.
- Parking supply is ample, but the current system does not work well for all users.
- There is a strong desire to ride bicycles, scooters, skateboards, etc., but campus and nearby infrastructure is not supportive.
- Accessibility for people with disabilities should be a key focus.
- The environmental and carbon impacts of the transportation system should factor into plan strategies.
- **Change is coming** and the community (oncampus and adjacent) is optimistic!



Campus Survey | Respondents





Additional Plan Principles



What WMU does on-campus will enhance the community as a whole.

WMU's impacts will continue to uplift adjacent neighborhoods and Greater Kalamazoo.



Address the perception (real/imagined) of the ease of parking; make this a non-issue.

It should be easy to get here, but we want this to be a pedestrian campus once people have arrived.



Improve the functionality of the Ring Road.

Make it more amenable to all users, without worsening existing automobile congestion and delays.



Avoid increasing the cost of attending WMU.

Enrollment and graduation rates have been on a 10-year decline and increasing fees can lead to attrition.



Ensure that changes do not impede WMU's ability to pay for mobility services.

Parking fees fund a variety of important transportation services, from busing to roadway maintenance.



Move away from surface parking.

As campus develops, increase density and add green space, and prioritize strategically located parking decks to replace surface lots.



Look to peer universities for pricing strategies and approaches to parking management.

Explore "tiered" parking approach based on geography, user group, and other factors.



Address "change management" and evaluate the risk of recommended approaches.

Ensure that, overall, we have a net positive impact on student experience, attraction, & retention.





3

EXISTING CONDITIONS

The Existing Conditions Report presents the results of the first phase of the TMP: A comprehensive assessment of current conditions, services and programs, derived from analysis of existing and newly collected data, conversations with key stakeholders, and direct observation of conditions on and around campus. The report identifies physical, policy, and programmatic deficiencies and illuminates opportunities that align with WMU goals and objectives.

WMU has more than 22,500 students, with approximately 80% undergraduate and 20% graduate enrollment. 82% of the student body is comprised of Michigan residents, with another 8 percent coming from outside of the United States. WMU offers 265 degree programs across 10 academic colleges and affiliated professional schools and has an annual economic impact of \$1.6 billion. WMU plays an important role in the Kalamazoo community, providing broad and comprehensive educational opportunities, a major employment center, and a regional hub for cultural and lifelong learning.

WMU has four Kalamazoo-area campuses, including two adjacent campuses in the heart of Kalamazoo, one in the Colony Farm neighborhood, and one in nearby Battle Creek, east of Kalamazoo. The TMP focuses primarily on the West or "Main" Campus, which is the academic core of the University and a vibrant center of student activity and the adjacent East Campus, which is home to multiple athletic fields and facilities, the School of Medicine, and the College of Health and Human Services.

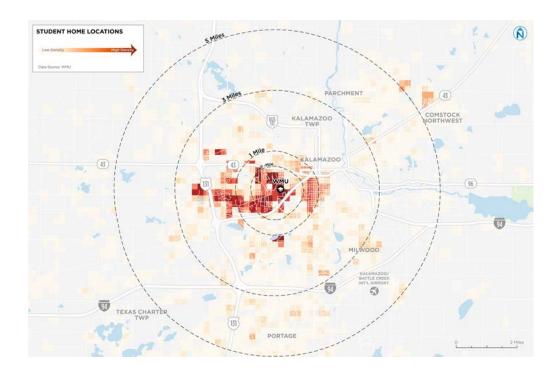


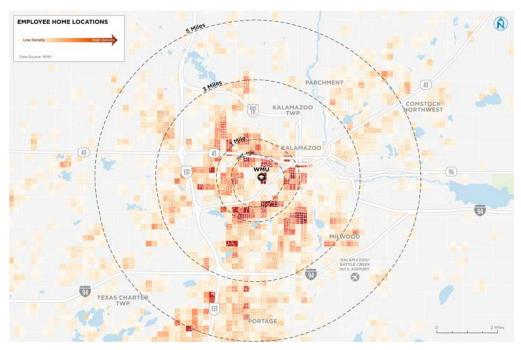
Source: Fishbeck, Inc.

Home Location

The geographic distribution of students and faculty/staff varies significantly. 50% of all students live within 1 mile of campus, while less than 15% of faculty/staff live within this same range. Conversely, nearly 50% of all faculty staff live more than 5 miles from campus.

As the two maps on this page illustrate, a substantial number of students and employees live within 3 miles of campus. This is a comfortable distance for bicycle and transit commutes and speaks to the opportunity to shift travel behaviors through the strategies and recommendations developed in this plan.

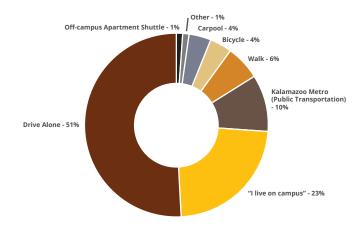




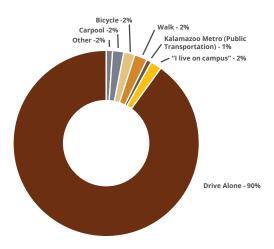
Travel Behaviors

Survey results indicate that students are far more likely to either **live on-campus** or arrive by **non-drive-alone modes**. However, both students and employees demonstrate a willingness to **try other travel modes** from time to time.

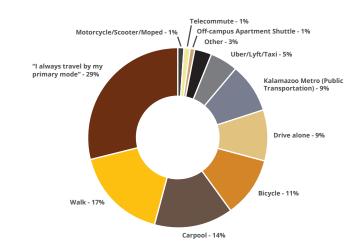
Primary Commuting Mode | Students



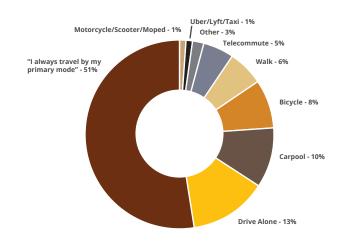
Primary Commuting Mode | Employees



Secondary Commuting Mode | Students

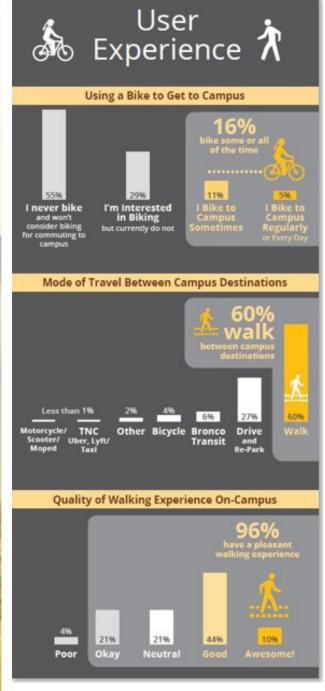


Secondary Commuting Mode | Employees

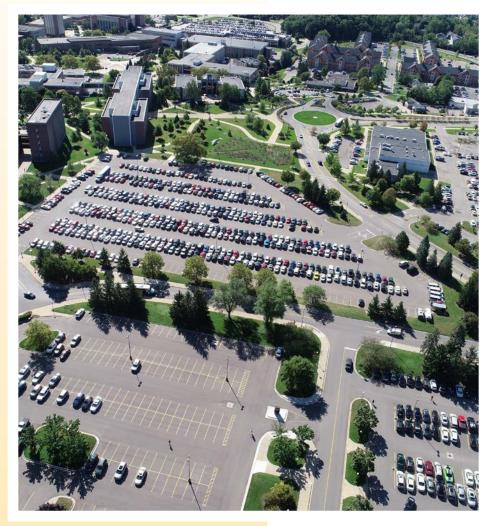


While the majority travel by foot, bicycle or Bronco Bus while on campus, a significant share (27%) of survey respondents said that they drive and re-park between campus destinations. This speaks to the opportunity to promote the features of a "park once" campus where non-driving options are the most convenient and attractive choices.





Parking • Nearly 13,000 spaces on the West & East campuses Supply ~3,000 spaces each dedicated for employees & commuting students; another 2,600 for on-campus student residents • 0.62 spaces per student, which is slightly above the "peer" average of .58* **PARKING FACILITIES** • \$300 parking fee is also slightly above the peer average of \$250 Resident Parking Commuter Parking Employee Parking GROVE ST TO DOWNTOWN Any Permit Parking KALAMAZOO Visitor Parking W SOUTH ST W SOUTH ST COMPANIES. GREENLAWN AVE SOLONST W LOVELL ST W CEDAR ST VALLEY OR 0 ARBORETUM PKWY W DUTTON ST ARCADIA W VINE ST AUSTIN ST VILLAGE ST MINOR AVE WHEATON AVE AXTELL ST REDWOOD AVE CHALAMANTOOCHTCONAL DESCRIPANTE HOSPITAL FOREST ST LOW RD MCCOURTIE ST KENT CIR KNOLLWOOD HIGH RD PIONEER ST TO PARKVIEW CAMPUS WEAVER BLVD Campus Building Sidewalk/Pathway Railroad 0.25 Miles HOWARD ST



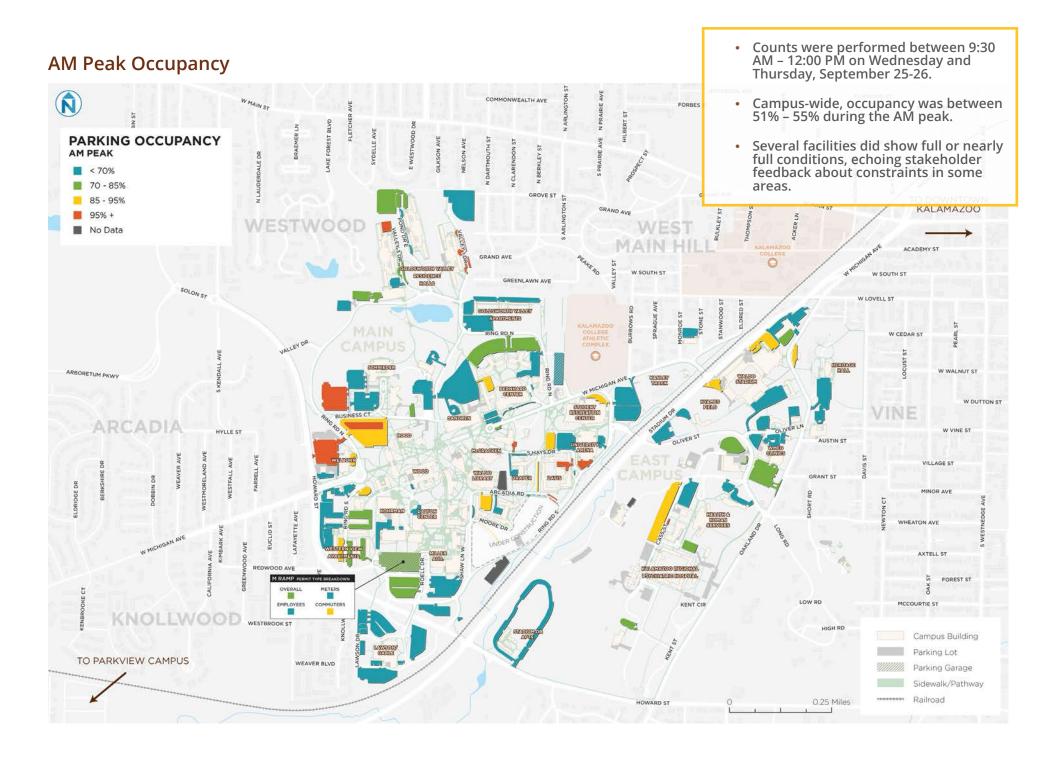


Lots 72, 61, and 82 during the AM Peak

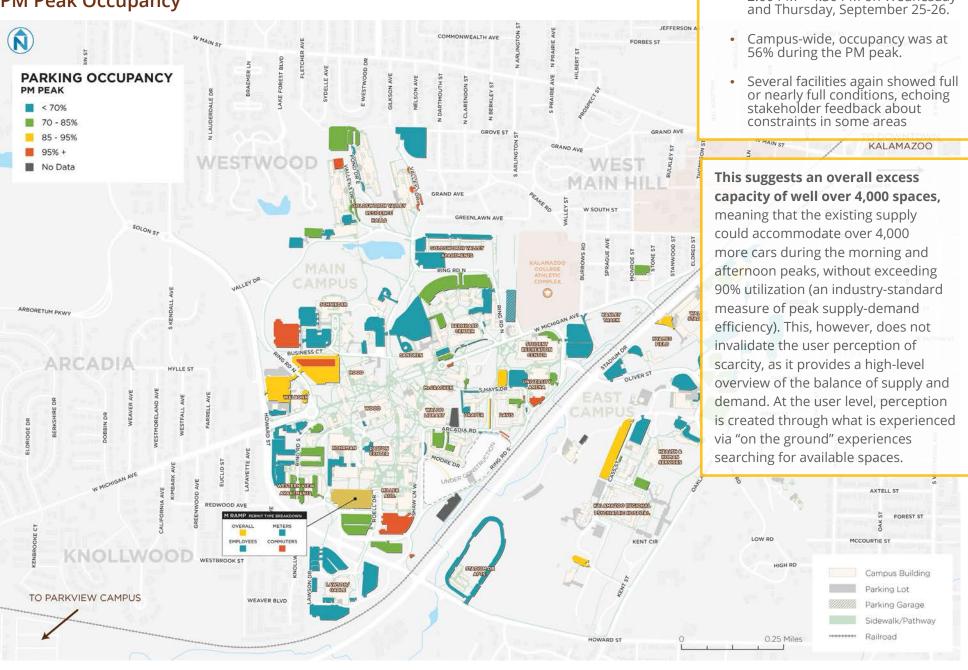
Source: Fishbeck, Inc.

Lots 34 and 128 during the PM Peak

Source: Fishbeck, Inc.

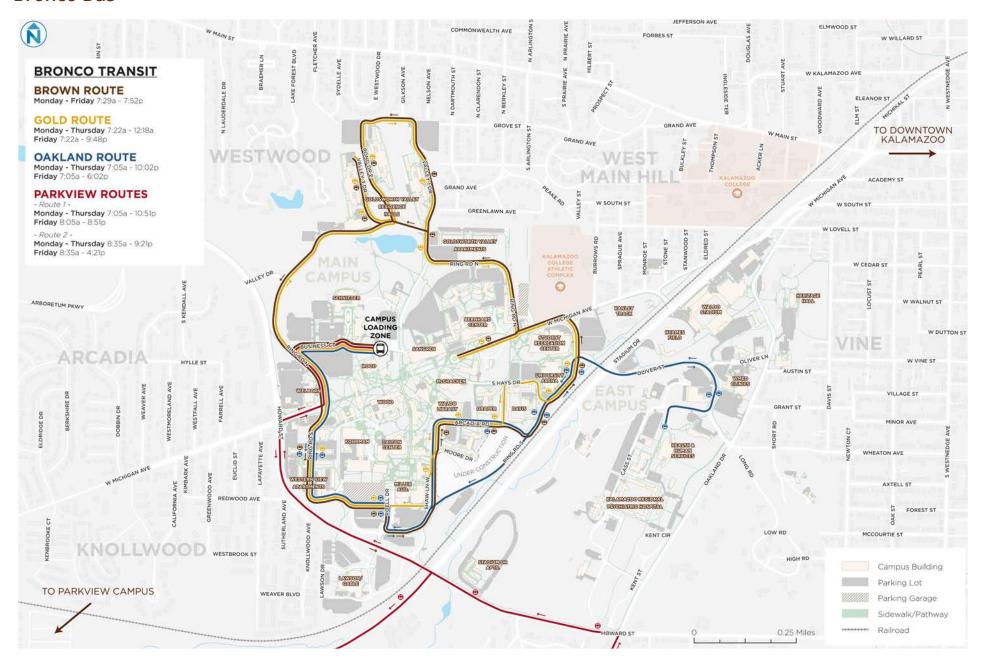


PM Peak Occupancy



Counts were performed between 2:00 PM – 4:30 PM on Wednesday

Transit Bronco Bus



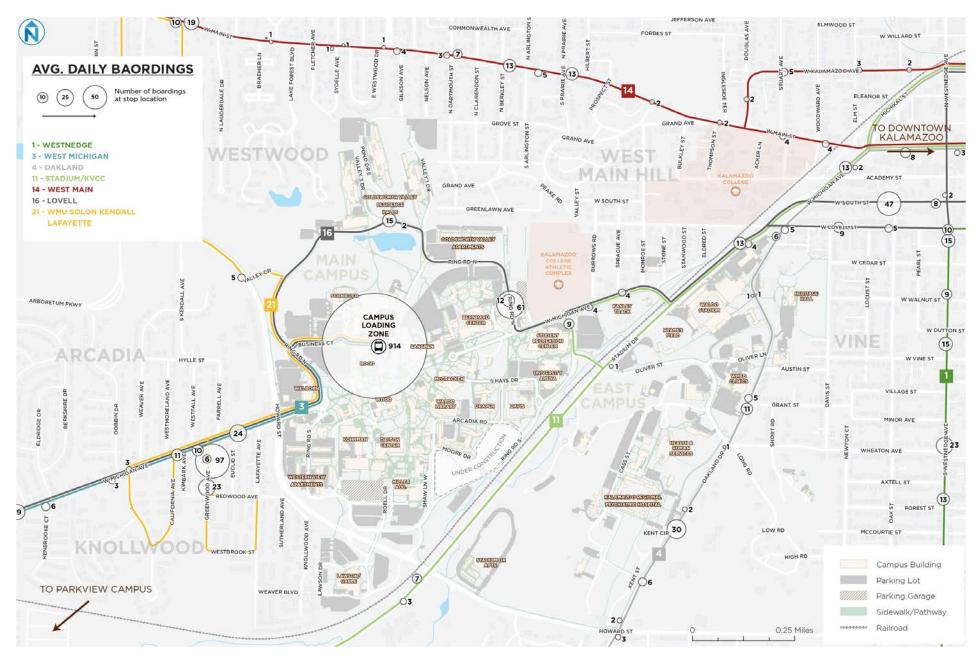
Bronco Transit operates five bus routes on weekdays, and one route on Saturdays. Service is provided by Indian Trails, through contract with WMU. Fares are free for Western students, faculty, and staff. All but one of the routes is operated with a single vehicle and buses only stop at designated Bronco Transit stop locations.

Route	Frequency	Annual Ridership
Gold	30 Min	159,240
Brown	30 Min	157,097
Oakland	30 Min	53,620
Parkview Routes	45 Min	128,587

Greater frequency of service, plus more dependable service and information, would improve the likelihood of some affiliates trying and regularly using transit."



Metro





Kalamazoo Metro Transit is the public transit agency operating in the greater Kalamazoo metro region. Metro Transit is operated by the Central County Transportation Authority (CCTA) and Kalamazoo County Transportation Authority (KCTA). As of 2019, Metro operates 20 fixed-route bus routes in the Kalamazoo region, including 5 that directly serve the West and East Campuses.

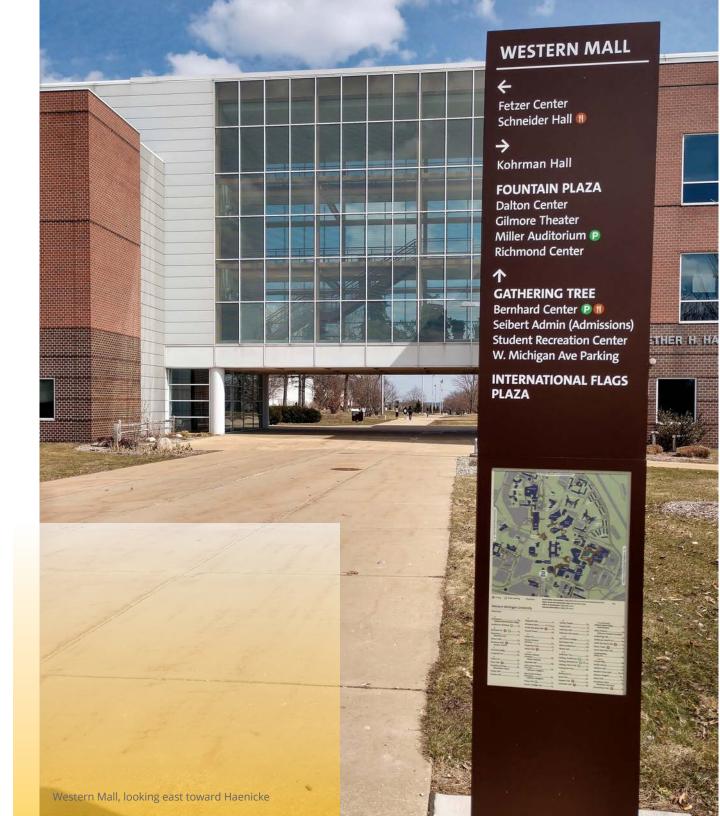
Riding Metro is free for WMU students, faculty, & staff with a valid Bronco ID card, through contract between Western and Metro. WMU is a key market for Metro services, second only to downtown Kalamazoo.

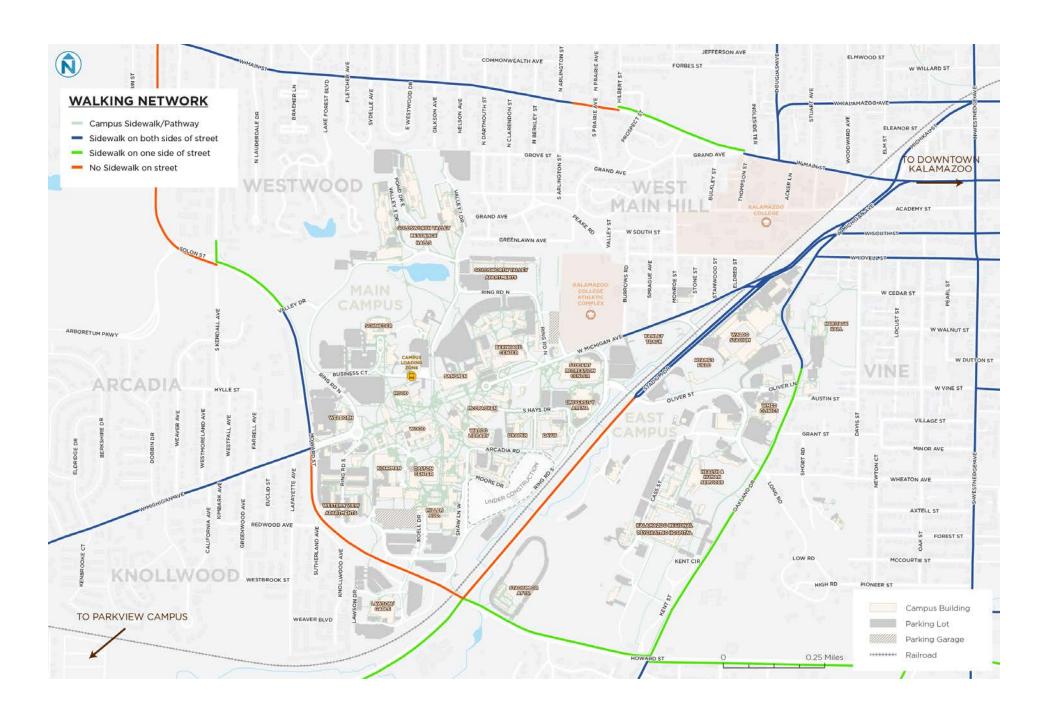
- WMU affiliates took 528,000 trips via Metro Transit in 2017-18.
- The Campus Loading Zone accounts for more than 90% of arrivals/departures.
- Other notes: Over 70% of students and over one-third of employees, live within ¼-mile of either a Bronco Transit stop location or a Kalamazoo Metro stop location.
- 10% of surveyed students use Metro Transit as their primary commute mode to campus and 20% used Bronco Bus as their primary mode of travel once on campus.
- Only 1% of surveyed WMU employees reported using Metro Transit as their primary commute mode and 6% reported using Bronco Bus as their primary mode for on-campus trips.

Active Transportation Pedestrian Network

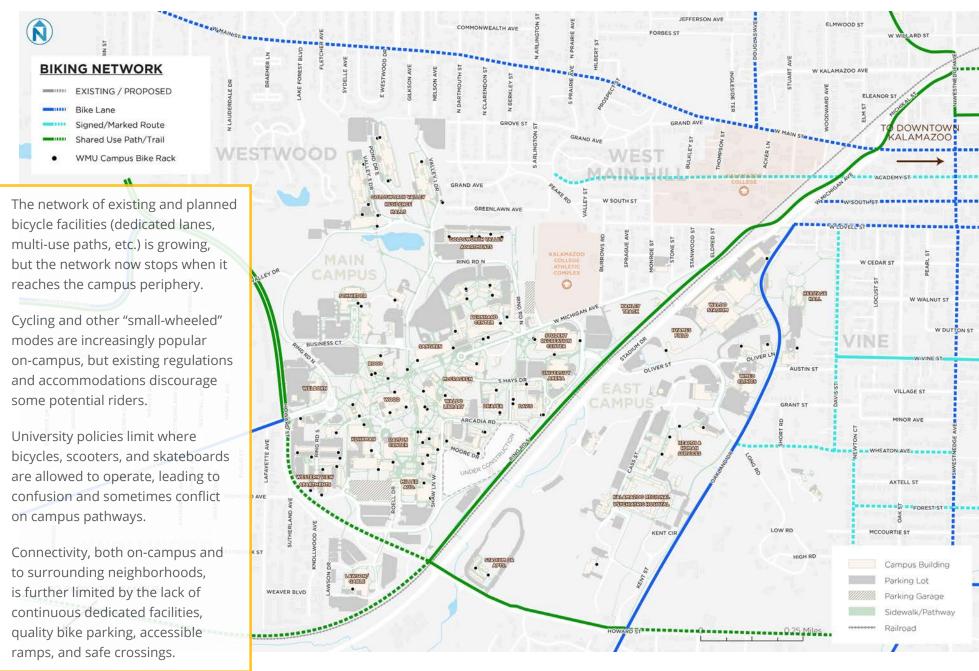
WMU aspires to be a pedestrianoriented campus, where walking is the predominant travel mode. Significant steps have been taken over the years to accomplish this vision, but it is still a work-in-progress. The Main Campus features a robust network of walking paths that connect internal campus destinations. Regional bicycle connections reach campus, but on-campus facilities are limited and WMU policies further restrict cycling and other active "wheeled" modes on campus pathways. Recently installed campus wayfinding provides navigational assistance to walkers as they wind through campus, orienting people to destinations and pathways. Pedestrian scale lighting is focused along these routes to illuminate primary walking paths during evening hours.

The campus's hilly topography presents challenges for walking, bicycling and people with disabilities, as do infrastructure conditions in some locations. Connections beyond campus to the surrounding neighborhoods are likewise challenging, due to the prevalence of large streets and complex intersections that present safety concerns.

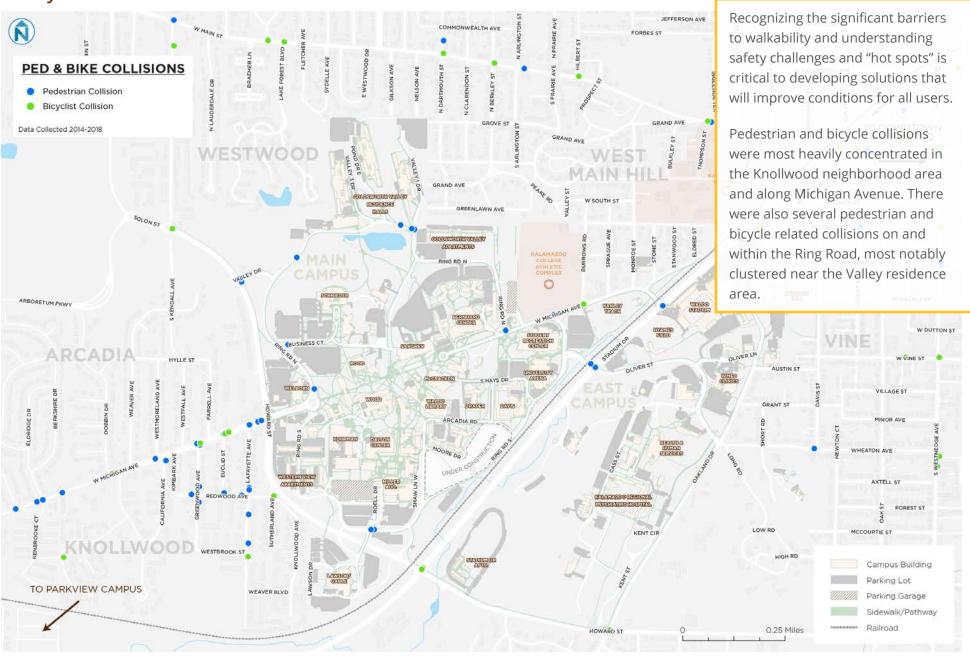




Bike Network

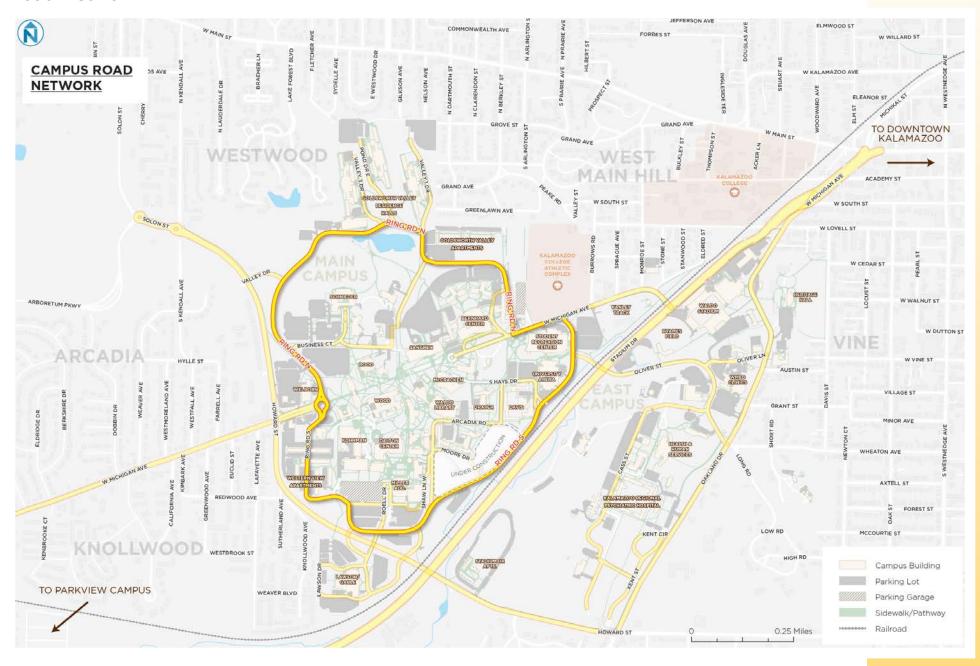


Safety



Traffic & Circulation

Road Network



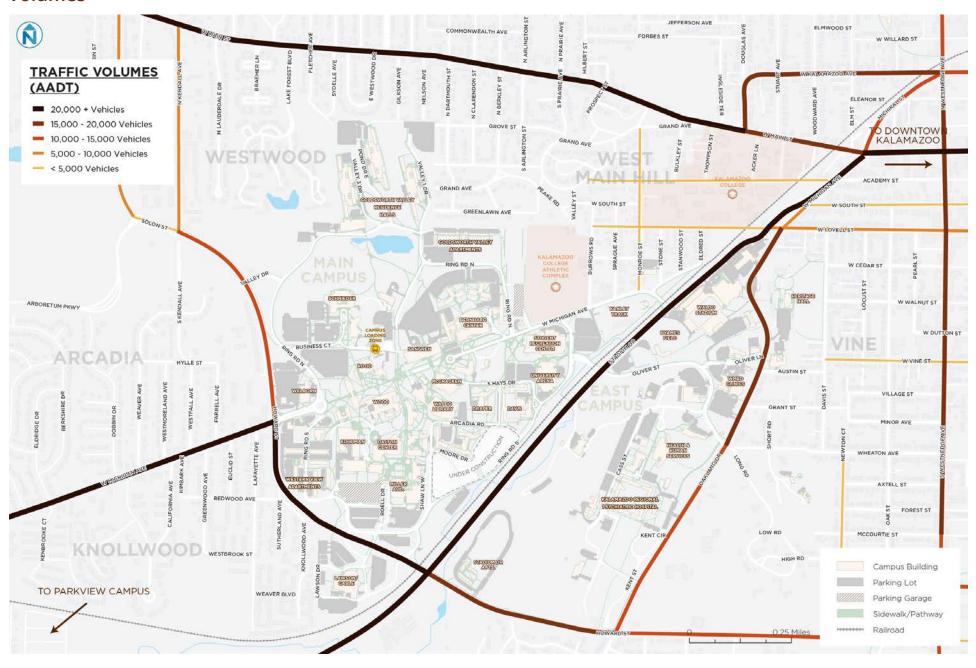
There are several key corridors that provide access to the West and East Campus areas, including:

- Michigan Avenue is West Campus's only major direct-access corridor and is the primary access corridor for affiliates traveling from areas west of campus, including the Arcadia and Knollwood neighborhoods. Michigan Avenue terminates at the Ring Road traffic circle.
- W. Michigan Avenue is made up of two important segments
 a short segment that provides direct access into the eastern
 half of campus and the Ring Road from the West Main Hill
 neighborhood area and Stadium Drive; and a major segment that
 becomes Stadium Drive as it approaches campus from the north,
 and combines with Main Street then travels into Downtown
 Kalamazoo as it travels away from campus from the south.
- Stadium Drive (I-94) is the eastbound extension of the I-94
 Kalamazoo Business Loop and carries heavy traffic between I-94
 and Highway 131 and locations in central Kalamazoo, including
 WMU. Despite its importance to WMU, Stadium Drive has limited
 direct access to West Campus, as it is separated by a parallel rail
 line.
- Howard Street is a major access corridor for north-south traffic to WMU and is a major connection between Michigan Avenue, Stadium Drive, and Oakland Drive, as well as neighborhood areas to the east of campus.
- **Oliver Street** is the only direct connection between the inner corridors of West Campus (Ring Road), East Campus (Cass Street), and to the Vine neighborhood to the east. Oliver Street also provides access to Ring Road from Stadium Drive.
- **Oakland Drive** is a primary access corridor for East Campus traffic from all directions.
- Ring Road is the primary internal vehicular access corridor
 within West Campus and is the functional boundary of the heart
 of West Campus. Several roadways branch from the Ring Road
 and extend further into campus, though most are dead end or
 court style streets, and none passes entirely through the campus.
 Because no streets pass directly through the main campus, the
 Ring Road is the only corridor that provides access to all areas of
 the inner campus, or from one side of the campus to the other.





Volumes



As the table on this page indicates, **capacity in surrounding arterials and intersections is sufficient for current volumes.** However, drivers do experience congestion at several intersections of major roadways around the campus periphery where turn movements and signalization can be modified to improve both traffic flow and traveler safety.

Roadway Segments	Travel Lanes Per Direction	Center Turn Lane/ Median	Peak-Hour Volumes (year)	Peak Direction Lanes Needed	Capacity/ Demand Relationship
Stadium Drive	2	Yes	1277 (2003)	1-2	Capacity Exceeds Demand
Howard Street (btw Stadium Drive and Michigan Avenue)	2	Yes	1072 (2017)	1-2	Capacity Exceeds Demand
Howard Street (btw Michigan Avene and Kendall Avenue)	2	Yes	646 (2016)	1	Capacity Exceeds Demand
Michigan Avenue	2	Yes	1044 (2018)	1-2	Capacity Exceeds Demand
Oakland Drive	1	Yes	642 (2015)	1	Capacity Exceeds Demand

Source: Peak hour volumes proviced by KATS



Howard Street northwest of Lawson Drive

Safety



Collision data was collected from 2014-2018 for the campus area and adjacent corridors from Michigan Traffic Crash Facts.

The data showed that traffic collisions were heavily concentrated at major intersections and on major corridors. However, there is a notable level of collisions, and collision density, on and within the Ring Road.

There were no traffic fatalities in the campus area during this period.



W. Michigan Avenue traffic circle and campus gateway

Source: Fishbeck, Inc.



W. Michigan Avenue at Howard Street



Ring Road South, near Parking Services

Transportation Demand Management

Transportation demand management (TDM) generally refers to the use of strategies that inform and encourage travelers to maximize the efficiency of a transportation system with a goal of improving mobility, reducing congestion, and lowering vehicle emissions.

WMU does not have a TDM program or employ dedicated staff. However, Western does provide some TDM-related transportation services. Following is a summary of the existing services available to the campus community.

Bronco Bus Service

Bronco Transit shuttle buses are free to use for all WMU students and employees by showing their university ID.

Metro Bus Pass

All WMU students and employees receive free rides on any Metro bus route. This benefit is funded by Parking Services.

SafeRide (Driving and Walking Escorts)

Students and employees can receive a walking or driving escort between on-campus destinations at night, including to their on-campus residences.

Bicycle Resource Hub

The Office of Sustainability's Bicycle Resource Hub is WMU's one-stop shop for non-motorized transportation education, advocacy, and initiatives. A small fleet of free Bronco Bikes are available to campus affiliates throughout the year.

Amtrak Discount

WMU students are eligible for a 15% discount on Amtrak travel on select Midwest routes.



Kalamazoo Metro Bus 21

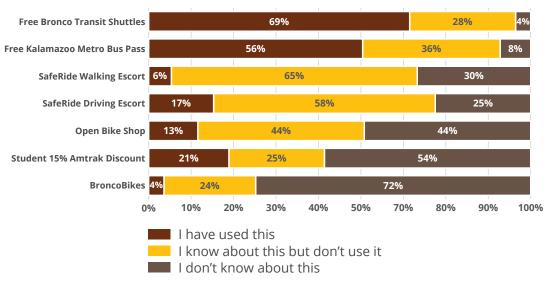


WMU Office for Sustainability

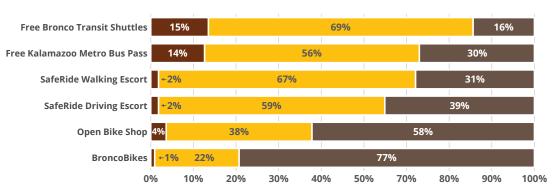
In general, the campus community is fairly knowledgeable about the TDM offerings available to them. Four of the six available programs are recognized by over 60% of respondents. However, knowledge of programs is not necessarily shown to translate to program usage, particularly among employees.

- Knowledge of the free transit options is high across both students and employees, with use by students relatively high (55% for Metro and 70% for Bronco Bus) and low by employees (15% for each service).
- Knowledge of SafeRide services is relatively high, but the service is rarely used by either students or employees.
- Knowledge and use of bicycle related programs is low for both students and employees.
- Just under half (46%) of students are aware of the Amtrak discount, and about 20% have used it.

Student Awareness of TDM Programs



Employee Awareness of TDM Programs



We need incentives to encourage students and employees to bike to campus."





4

PLAN STRATEGIES

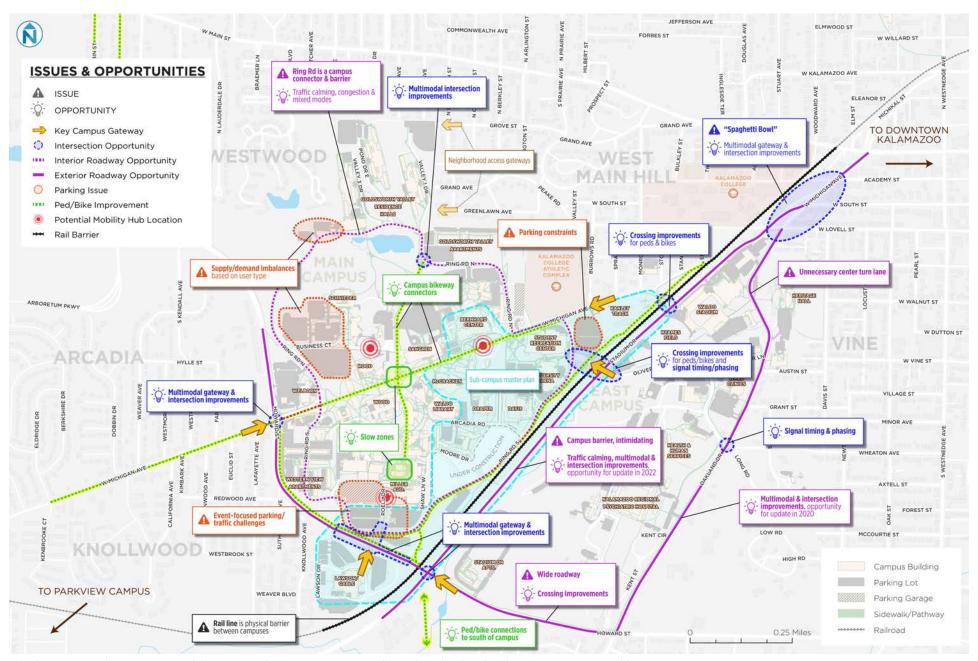


This section summarizes strategic recommendations for the Transportation Master Plan, based on current campus conditions, needs, and opportunities, as identified during the community engagement and existing conditions assessments. Strategies and recommendations are organized around the focus areas and travel modes included in the previous section, including:

- Parking Strategies
- Transit Strategies
- Active Transportation Strategies
- Traffic & Circulation Strategies
- Transportation Demand Management Strategies

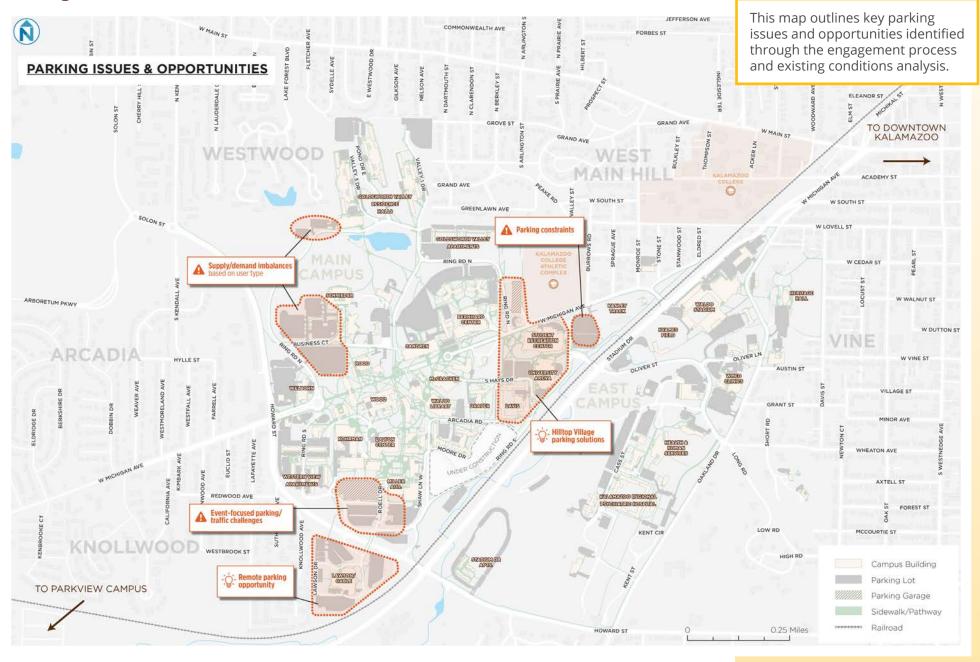
This report provides an overview of key recommendations for policy, program, service, and capital improvements, while a more comprehensive overview of Plan strategies, best practices, and recommendations is included in the "Recommended Plan Strategies" document.

Strategies



This diagram provides an overview of the issues and opportunities across all travel modes that the Plan Strategies aim to address.

Parking Strategies



Shunhami		Average				
Strategy	*	**	***	****	****	Score
Define geographic priorities for changes to parking supply based on use and need	0%	0%	11%	16%	74%	4.63
Define and monitor performance measures and targets, prioritizing availability	0%	5%	10%	30%	55%	4.35
Use pricing to distribute demand	19%	10%	33%	14%	24%	3.14
Shift toward "virtual" permitting	15%	0%	10%	30%	45%	3.9
Transition toward monthly permits and provide more flexible permit options	10%	19%	19%	24%	29%	3.43
Pilot first-year student parking restrictions	20%	25%	15%	15%	25%	3
Balance Hilltop Village parking demand with broader mobility, campus vision & goals	0%	16%	5%	47%	32%	3.95

This table summarizes the key parking strategies that were identified in response to the engagement and existing conditions analysis. Participants in the final Open House were asked to rate the prioritization of each strategy. The two highest ranked parking strategies related to defining geographic priorities for changes to parking supply and monitoring performance measures that prioritize availability.



Tiered pricing can facilitate more efficient use of parking supply.

Parking Recommendations

Staffing & Organization

- Expand Parking Services role and capacity to embrace role as transportation provider and rebrand as "Transportation & Parking Services."
- Stabilize funding via dedicated "student transportation fee."
- Create a unified and comprehensive communications program.
- Engage Transportation & Parking Services in campus mobility planning.

Operations & Technology

- Define compliance and availability as key performance indicators (KPI).
- Improve the visitor parking experience to mitigate event parking constraints.
- Prepare for license plate recognition (LPR) and virtual permitting.
- Expand electric vehicle charging station infrastructure.

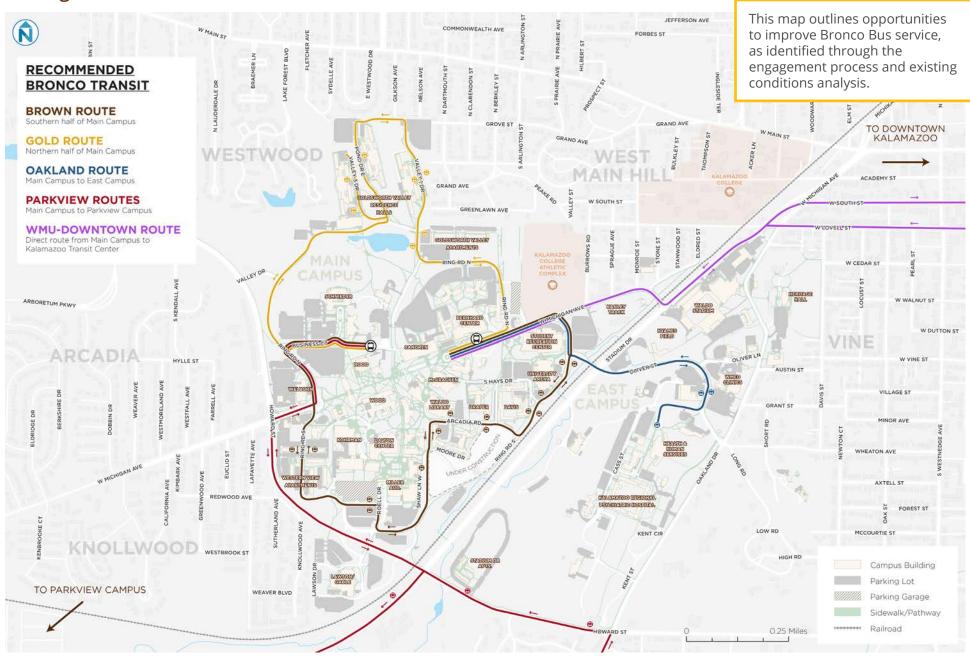
Parking Supply

- Define priorities for allocation of parking supply in the core and periphery.
- Distribute replacement parking strategically, starting with the Hilltop Village.
- Seek joint development partners for mixed-use development.

Parking Demand Management

- Define and monitor KPI and targets.
- Use pricing to distribute demand efficiently.
- Create additional and flexible permit types to encourage shifting travel behaviors.

Transit Strategies



Stratage		1	Average				
Strategy	*	**	***	****	****		Score
Emphasize improvements to service frequency and dependability	0%	0%	10%	35%	55%		4.45
Re-route the Bronco Bus system to promote directness & frequency	0%	0%	30%	15%	55%		4.25
Improve accessibility for users with disabilities and impairments	0%	0%	5%	15%	80%		4.75
Coordinate with Metro to implement stop improvement recommendations	0%	0%	10%	35%	55%		4.45
Design the new Loading Zone as a multimodal "mobility hub" aligned with development of the Hilltop Village	0%	5%	25%	25%	45%		4.10
Promote and increase awareness of WMU's free transit benefits	0%	5%	15%	10%	70%		4.45

This table summarizes the key transit strategies that were identified in response to the engagement and existing conditions analysis. Participants in the final Open House were asked to rate the prioritization of each strategy. The two highest ranked transit strategies related to improving accessibility for users with disabilities and increasing awareness of WMU's free transit benefits.



Creating more direct connections for buses through campus can promote more frequent and convenient service.



Alternate Bus Hub Location

Identifying the future location of the WMU Loading Zone will be critical to ensuring convenient access for transit riders.



Mobility hubs, like this one at Ohio State University, ease transfers and mixed mode trips and provide adaptive mobility options for people with disabilities.

Transit Recommendations

General Strategies

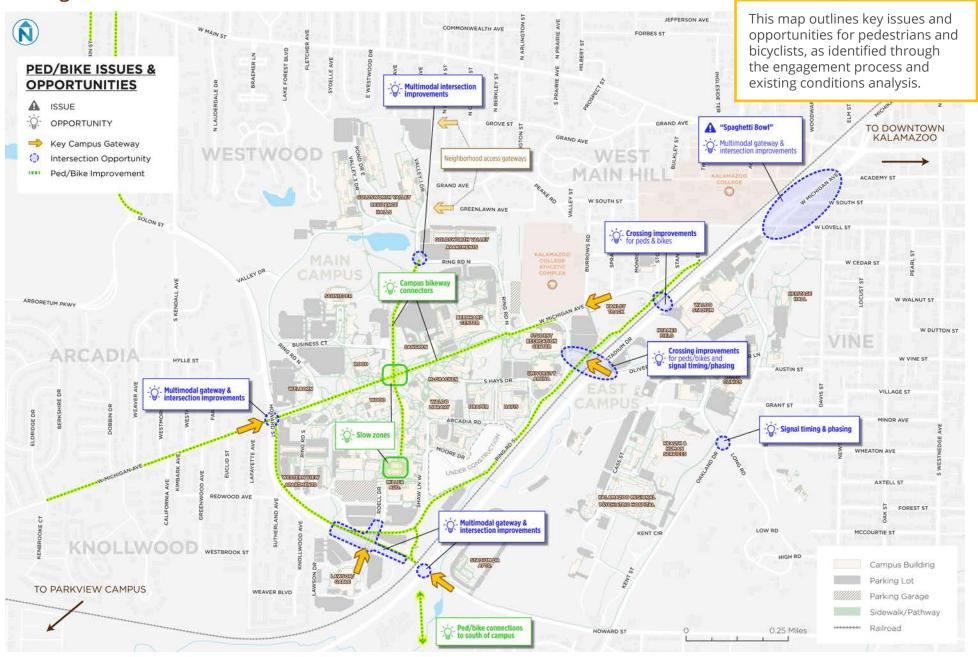
- Define a campus-wide transit vision, aligning both Bronco Transit and Kalamazoo Metro priorities with the service needs of transit riders.
- Emphasize improvements to service frequency and dependability, facilitating more direct routes between primary destinations, targeting 15-minute or better service and aligning schedules around the "clockface."

Specific Strategies

- Connect gaps in the campus roadway network to facilitate more efficient and direct bus service.
- Re-route the Bronco Bus system, prioritizing direct service and frequency.
- Coordinate with Metro to implement stop improvement and infrastructure recommendations.
- Create a Campus Transit Center or Mobility Hub to facilitate more convenient transfers between modes at a strategic West Campus location.
- Provide basic passenger amenities, including benches, shelters, trash receptacles, bike racks, and information, at all campus shuttle stops.
- Ensure compliance for users with disabilities and impairments with accessible routes to all stops, on-board vehicles, and via apps and other services.
- Pursue opportunities to utilize emerging technologies that can improve service and increase safety and accessibility for all users.
- Promote and increase awareness of free transit benefits to all campus affiliates.

Active Transportation

Strategies



Stratom		Average				
Strategy	*	**	***	****	****	Score
Establish and maintain a safe & accessible bicycle and pedestrian network for all ages and abilities	0%	0%	14%	29%	57%	4.43
Expand and improve bike parking supplies	0%	5%	24%	24%	48%	4.14
Conduct a universal accessibility study	5%	0%	15%	25%	55%	4.25
Proactively permit shared micromobility services on campus	10%	5%	10%	33%	43%	3.95
Adopt supportive policies, including designated on- campus pathways and a "complete streets" policy	0%	10%	15%	20%	55%	4.20
Prioritize pedestrian access throughout the Village with limited access for motor vehicles	5%	0%	30%	25%	40%	3.95

This table summarizes the key active transportation strategies that were identified in response to the engagement and existing conditions analysis. Participants in the final Open House were asked to rate the prioritization of each strategy. Each of these strategies ranked very high, with the greatest support for establishing a safe and accessible bicycle and pedestrian network, conducting a universal accessibility study, and adopting supportive policies to promote active trips.

Active Transportation Strategies



Clearly marking bicycle and pedestrian pathways promotes safety and shared use of the campus network.



Bike channels can improve accessibility in hilly areas of campus for cyclists.



accessibility and safety.

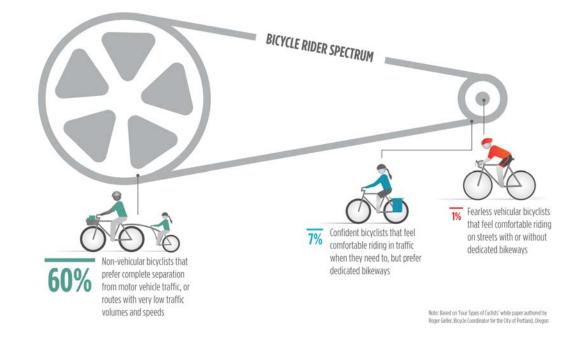
Active Transportation Recommendations

Safety and Accessibility

- Design a bicycle network for all ages and abilities.
- Enhance crossings at locations with high volumes of pedestrians and bicyclists.
- Identify, sign, and mark a series of dedicated on-campus bicycle routes.
- Provide programs and services that facilitate walking and biking trips.
- Maintain all stairs, sidewalks, and curb ramps for year-round access.
- Optimize connections between on-campus and off-campus networks.
- Improve walking conditions in and around WMU parking facilities.
- Expand and improve bike parking supplies.
- Conduct a Universal Accessibility Study with the Office of Disability Services.

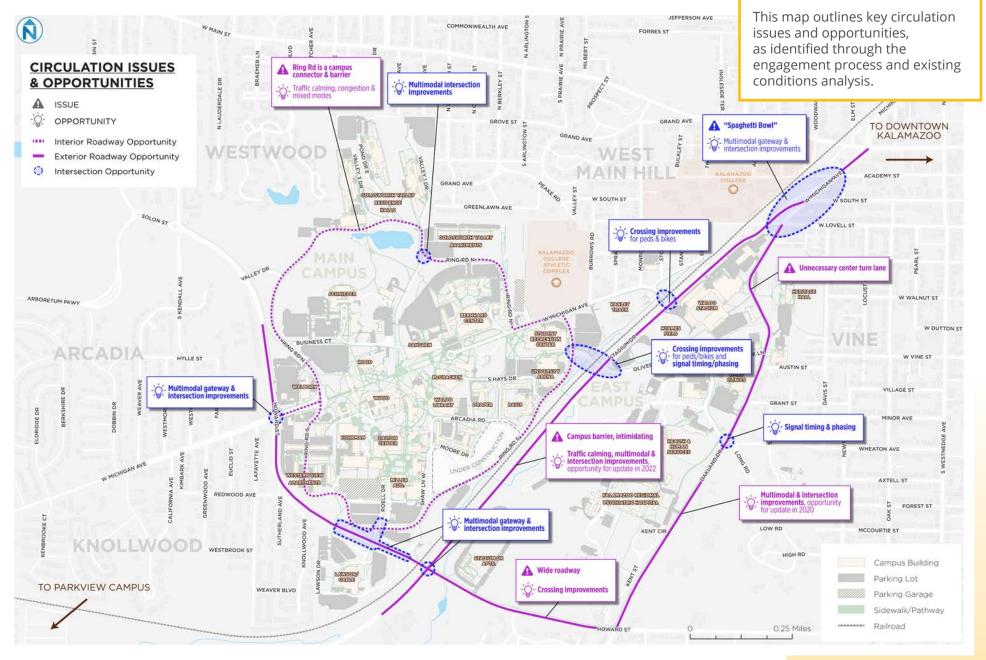
Policies and Programs

- Update WMU ordinances to reflect supported travel patterns.
- Adopt and on-campus "complete and green" streets ordinance.
- Develop a campus Bike-Ped Plan to guide investment.
- Pursue opportunities to bring shared bikes and scooters to campus.
- Develop a safety training and assistance program.



Traffic & Circulation

Strategies



Shundara		Average				
Strategy	*	**	***	****	****	Score
Develop the Ring Road's multimodal functionality	5%	11%	11%	11%	63%	4.16
Redesign key intersections	0%	0%	5%	30%	65%	4.60
Conduct traffic analysis and start to paint incremental solutions	0%	0%	11%	32%	58%	4.47
Monitor and install permanent measures	5%	0%	32%	37%	26%	3.79
Address signal timing and lane configurations at key nodes	0%	5%	21%	16%	58%	4.26
Collaborate with the City on improvements to key intersections and corridors	0%	0%	11%	26%	63%	4.53
Design new roads with the Hilltop Village to prioritize pedestrians and strategically channel car traffic	0%	5%	32%	11%	53%	4.11

This table summarizes the key traffic & circulation strategies that were identified in response to the engagement and existing conditions analysis. Participants in the final Open House were asked to rate the prioritization of each strategy. The highest ranked strategies related to redesigning key intersections, developing the Ring Road's multimodal functionality, and collaborating with the City of Kalamazoo on improvements to key intersections and corridors.



Ring Road South, Oliver, and Stadium Drive

Key intersections on and around campus offer opportunities to implement short-term and long-term measures to both improve circulation and enhance safety conditions. These intersections represent some of the highest priorities for early interventions, where high volumes of automobiles, pedestrians, and bicyclists converge and conflicts are common. WMU's leadership, in collaboration with the City of Kalamazoo, can facilitate both interim measures and long-term solutions to improve conditions for all users at these intersections and others.



Howard Street and Michigan Avenue

Traffic & Circulation Recommendations

General Strategies

- Coordinate with the City of Kalamazoo and other public agencies to improve the road system that provides access to the WMU campus.
- Follow the City and KATS Complete Streets policies to guide street design within campus.
- Identify key gateways to campus and design them to accommodate all modes.
- Optimize the existing right-of-way to better accommodate multimodal needs along the access and internal road system.
- Collect additional vehicular turning movement data at key intersections to better inform intersection design and circulation modifications.
- Adjust signal timings to reduce travel delays and provide safe pedestrian/bicyclist crossings at key intersections.
- Consider traffic circulation schemes and modifications to improve connectivity, calm traffic, and reduce travel distances.

Specific Strategies

- Install high visibility crosswalks, pavement markings, and signage to improve clarity and safety.
- Implement road diets and curb extensions at intersections and along key corridors to calm traffic and shorten crossing distances.
- Use interim solutions to facilitate immediate improvements while longer-term measures and resources are evaluated and pursued.
- Evaluate opportunities for traffic circles in high conflict locations.
- Improve rail crossings with additional guidance, gating, and detection devices.



Interim solutions, like these in Memphis, TN (top) and Portland, OR (bottom) can lead to immediate improvements while longer-term measures are evaluated.



Transportation Demand Management (TDM) Strategies

Shuahama	Percent of Votes					Average
Strategy	*	**	***	****	****	Score
Expand Parking Services capacity to embrace the role of multimodal transportation services provider	0%	5%	11%	32%	53%	4.32
Establish a dedicated on-campus TDM coordinator	6%	11%	22%	28%	33%	3.72
Create a comprehensive TDM communications program	0%	6%	28%	28%	39%	4
Adopt a "park once" approach to driving and parking on-campus	0%	5%	14%	43%	38%	4.14
Offer incentives to choose non-drive-alone modes	0%	20%	20%	30%	30%	3.70
Transition to daily parking permits	37%	16%	32%	5%	11%	2.37
Leverage partnerships to expand reach and adoption	12%	0%	41%	29%	18%	3.41

This table summarizes the key transportation demand management (TDM) strategies that were identified in response to the engagement and existing conditions analysis. Participants in the final Open House were asked to rate the prioritization of each strategy. The highest ranked TDM strategy was expansion of Parking Services capacity to embrace its role as WMU's multimodal transportation services provider. Other priorities related to communications and promoting a "park once" campus environment.

- A full-time campus mobility coordinator would be beneficial and could serve both the campus and community."
- Students and staff (in particular) would benefit from more education on what transit programs are available to them."





Culture.

Adopt consistent policies campus-wide that integrate management goals into daily campus life.



A "park once" campus features strategically located parking and a supportive mobility network that makes subsequent trips easier without the need to drive and "re-park."



Price.

Use parking rates to achieve desired outcomes and fund multimodal travel.



Incentives.

Provide incentives and rewards for goalsupportive travel choices.



Communication.

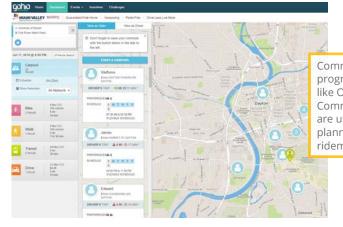


Make it easy to find travel information. Inform and educate about travel behavior. Promote demand management.



Infrastructure.

Invest in new infrastructure that costeffectively supports multimodal and sustainable campus access.



Commuter support programs like like Ohio's "Gohio Commute" platform are used for trip planning and ridematching services.



Transportation Demand Management (TDM) Recommendations

Programs & Benefits

- Expand Transportation & Parking Services staffing and capacity to fulfill its role as WMU's transportation provider.
- Create a unified and comprehensive TDM communications program.
- Adopt and promote a "park once" approach for people driving to campus.
- Increase incentives for carpool/vanpool and other non-drive-alone commuters.
- Provide flexible permit options to account for occasional drivers.
- Promote an active campus culture through policies, programs, and communication.

Information & Promotion

- Leverage partnerships for educational/ training opportunities, including work with both on-campus and external partners.
- Document TDM effectiveness through regular surveys, monitoring, and celebration of successful efforts.



Annual reports on program achievements are an important way to build support and communicate success to campus affiliates.





5

IMPLEMENTATION

The Transportation Master Plan recommendations from the previous section will take several years and a broad range of resources to implement. The project team weighed these factors with the TMP Vision and Goals and incorporated feedback from the Steering Committee and community at large to develop a near-term Implementation Plan that can be achieved over the next few years. The following section provides an overview of these recommendations, including implementation steps, key partners, cost range, and alignment with TMP goals. A more detailed plan document has been created in coordination with the Steering Committee and will serve as a "living" document that can be adjusted over time.

Near Term Implementation Plan - Parking Recommendations

Recommendations

Implementation Steps

Key Partners

Expand Parking Services capacity to embrace role as transportation provider.

- Rebrand as "Transportation and Parking Services"
- Explore options to engage student volunteers and hire WMU students to increase department capacity
- Coordinate with key campus organizations to consolidate responsibilities under TPS
- Hire a full-time Transportation Coordinator as responsibilities and funding allow

- Parking and Transportation Services
- Facilities Management (Campus Planning)
- Student Affairs

Normalize department funding.

- Seek funding options that eliminate the need for General Fund contributions, including the current "pass through" for funding Bronco Bus operations
- Seek self-funding status through adoption of a Student Transportation Fee to be dedicated toward funding strategic campus mobility programs and improvements
- WMU Operations Departments
- Student and Faculty Organizations
- Auxiliary Enterprises
- Business and Finance

Prepare for LPR and virtual permitting.

- Develop cost estimates for mounted LPR cameras at entrances to strategic parking facilities
- Pursue software options to facilitate plate reads, occupancy counts, and utilization tracking
- Transition toward monthly permits as LPR and virtual permitting are implemented

- WMU Operations Departments
- Marketing and Strategic Communications
- Public Safety

Define campus-core parking supply-allocation priorities.

- Draft policy defining which parking needs must be accommodated on the campus core, and which are likely to, over time, move toward the campus periphery
- WMU Operations Departments
- Student and Faculty Organizations
- Auxiliary Enterprises
- Institutional Equity

Cost Range

Plan Goals Served





Increase Connectivity to Downtown Kalamazoo and Adiacent Neighborhoods



Create a Safe and Walkable Campus



Comprehensive and Well-**Used Bicycle** Network



Provide Robust, Efficient, and Convenient Transit Service that serves the needs of all users



Provide and manage efficient and adequate vehicle parking accommodations



Highlight Mobility and Access as a tool to attract and retain



Create and **Enhance Campus** Accessibility for users of all abilities solutions



Integrate Technology and Emerging Mobility options into TMP



Prioritize Cost-Effectiveness



Support the Redevelopment of the WMU Campus

No Direct Costs



Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Create a Safe and Walkable Campus



Build a Comprehensive and Well-**Used Bicycle** Network



Provide Robust, Efficient, and Convenient **Transit Service** that serves the needs of all users



Provide and manage efficient and adequate vehicle parking accommodations



Highlight Mobility and Access as a tool to attract and retain



Create and **Enhance Campus** Accessibility for users of all abilities



Integrate Technology and Emerging Mobility options into TMP solutions



Prioritize Cost-Effectiveness



Support the Redevelopment of the WMU Campus

\$\$\$



Provide and manage efficient and adequate vehicle parking accommodations



Integrate Technology and **Emerging Mobility options** into TMP solutions



Support the Redevelopment of the WMU Campus

Staff Time Only



Provide and manage efficient and adequate vehicle parking accommodations



Prioritize Cost-Effectiveness



Support the Redevelopment of the WMU Campus

Near Term Implementation Plan - Parking Recommendations

Recommendations

Implementation Steps

Key Partners

Distribute replacement parking strategically.

- Define minimal supply needs for Hilltop project success, limiting new parking to "Premium" parking for critical markets (residents, visitors, accessible)
- Site all other replacement parking supplies within "Discount" and "Base zones"
- WMU Operations Departments

Student and Faculty Organizations

- **Auxiliary Enterprises**
- **Human Resources**

Seek potential joint development partners.

- Identify prime opportunity sites with potential parking and development value
- Engage the community to outline synergies between WMU needs and resources and those of the public and development communities
- **WMU Operations Departments**
- Office of Community Partnerships
- City of Kalamazoo

Use pricing to distribute demand efficiently.

- Define Discount, Base, and Premium parking zones.
- Set rates to encourage shifts in parking activity toward lower-rate options
- WMU Operations Departments
- Student and Faculty Organizations
- **Auxiliary Enterprises**

Create additional permit options to encourage shifting travel behaviors.

- Create a "Discount" permit, available to students and employees, with limited parking options
- Create a "Premium" permit for R and W permits linked to high-demand locations
- Pilot a premium resident parking permit within the Hilltop District
- Offer discounted "deferred" fall permits that are not valid until October
- Provide Free "Occasional Parking" passes to commuters who primarily use other
- WMU Operations Departments
- Student and Faculty Organizations
- **Auxiliary Enterprises**
- **Institutional Equity**

Cost Range

Plan Goals Served

Staff Time Only



Provide and manage efficient and adequate vehicle parking accommodations



Prioritize Cost-Effectiveness

Staff Time Only



Provide and manage efficient and adequate vehicle parking accommodations



Prioritize Cost-Effectiveness



Support the Redevelopment of the WMU Campus

Cost Neutral -Net Positive



Provide and manage efficient and adequate vehicle parking accommodations



Prioritize Cost-Effectiveness

Cost Neutral -Net Positive



Provide and manage efficient and adequate vehicle parking accommodations



Highlight Mobility and Access as a tool to attract and retain



Prioritize Cost-Effectiveness

Near Term Implementation Plan - Transit Recommendations

Recommendations

Implementation Steps

Key Partners

Student and Faculty Organizations

Reroute bus service and connect gaps in campus roadway network to facilitate more efficient service.

- Conduct a full assessment of existing route service and needs, including key origins/destinations and gaps in
- Confirm location of future campus bus/transit hub
- Evaluate alternatives for route and roadway network modifications
- WMU Operations Departments
- **Auxiliary Enterprises**
- Institutional Equity

Modify Bronco Bus routes to create more direct service and minimize "backtracking" through the campus's circuitous roadway network.

- Cut Gold and Brown Routes in half and make both routes bidirectional
- Focus the Gold Route on the north half of Main Campus (including the Valley) and the Brown Route on the south half of Main Campus
- Adjust stop-spacing to reduce peak-hour crowding and on-time performance
- Increase service to discount/remote lots in conjunction with parking recommendations

- **Auxiliary Enterprises**
- Kalamazoo Metro Transit
- WMU Operations Departments

Coordinate with Metro to implement stop-improvement recommendations and create a Campus Transit Center or Mobility Hub.

- Identify priority locations for stop improvements serving Main Campus
- Coordinate with Metro on optimal location for Transit Center/Mobility Hub

- **Campus Planning**
- **Auxiliary Enterprises**
- Student and Faculty Organizations
- Kalamazoo Metro Transit
- Institutional Equity

Ensure compliance for users with disabilities and impairments.

- Work with Disability Services for Students and Office of Institutional Equity to identify priority improvements to transit service, equipment, and supportive network amenities (sidewalks, ramps, signage, website, apps, etc.)
- Disability Services for Students
- Institutional Equity
- **Auxiliary Enterprises**
- Kalamazoo Metro Transit

Cost Range

Plan Goals Served

Staff Time Only



Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities



Support the Redevelopment of the WMU Campus

Cost Neutral -Net Positive



Provide Robust, Efficient, and Convenient Transit Service that serves the needs of all users



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities



Prioritize Cost-Effectiveness

\$ - \$\$



Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Provide Robust, Efficient, and Convenient Transit Service that serves the needs of all users



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities

Staff Time Only



Provide Robust, Efficient, and Convenient Transit Service that serves the needs of all users



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities



Integrate Technology and Emerging Mobility options into TMP solutions

Near Term Implementation Plan - Active Transportation Recommendations

Recommendations

Implementation Steps

Key Partners

Enhance crossings at locations with high pedestrian & bicycle volumes.

- Extend curbs to shorten crossing distances and place pedestrians and cyclists in more visible location prior to crossing
- Pursue interim measures prior to permanent installations
- Add crosswalk signage and high-visibility markings at non-signalized locations
- Ensure all crossings include accessibility features
- Provide wide ramps and crosswalks in locations where both pedestrian and bicycle volumes are high to reduce conflict and facilitate bicycle network connections
- WMU Operations
 Departments
- Student and Faculty Organizations
- Institutional Equity
- City of Kalamazoo
- Public Safety

Regularly maintain all stairs, sidewalks, and curb ramps for year-round access.

- Conduct annual field audits and budget for repair programs, emphasizing those that will improve access for people with disabilities
- Remove snow and ice on paths, stairways, and ramps to support walking and biking trips during all seasons
- Ensure that construction management plans include routing and signage plans to maintain accessibility

- WMU Operations Departments
- Student and Faculty Organizations
- Institutional Equity

Improve walking and multimodal conditions within and connecting to WMU parking facilities.

- Survey parking facilities/areas for poor internal and connecting walking conditions
- Identify priority locations and cost of improvements
- Use cost/benefit findings to prioritize improvements

- WMU Operations Departments
- Institutional Equity
- Public Safety

Conduct a Universal Accessibility Study.

- Complete a preliminary accessibility study
- Establish an accessible grid map that demonstrates walk routes as a result of current barriers
- Develop a project list and action plan to address identified gaps, barriers, and other deficiencies
- WMU Operations Departments
- Student and Faculty Organizations
- Institutional Equity

Cost Range

Plan Goals Served

\$\$ - \$\$\$



Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities



Integrate Technology and Emerging Mobility options into TMP solutions

TBD



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities



Integrate Technology and Emerging Mobility options into TMP solutions

\$ - \$\$



Highlight Mobility and Access as a tool to attract and retain



Provide and manage efficient and adequate vehicle parking accommodations



Integrate Technology and Emerging Mobility options into TMP solutions

Staff Time Only



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities



Integrate Technology and Emerging Mobility options into TMP solutions

Near Term Implementation Plan - Active Transportation Recommendations

Recommendations

Implementation Steps

Key Partners

Develop a Campus Bicycle & Pedestrian Investment Plan.

- Establish a bicycle and pedestrian advisory committee
- Formalize routes and facilities and prioritize investment strategies to support active mode trips
- Evaluate and align campus policies with the priorities of the plan
- Conduct regular (annual) surveys of bicycle traffic at key intersections and along priority routes
- WMU Operations
 Departments
- Student and Faculty Organizations
- Institutional Equity

Complete/Extend the WMU Bike Network.

- Establish permitted off-road bicycle routes on existing campus pathways
- Clearly sign/mark these routes to facilitate safe use of shared paths
- Install "runnels" "ramps" or "bike channels" on key staircase locations on Main Campus
- Connect to off-campus trails and bikeways

- WMU Operations Departments
- Student and Faculty Organizations
- City of Kalamazoo
- MDOT

Improve bike parking supplies.

- Replace bike racks, starting with those in poor condition, with APBP-compliant racks
- Add new, compliant racks adjacent to new facilities or existing campus buildings
- Identify optimal locations for indoor, covered, and long-term racks and storage
- Conduct regular (seasonal) surveys of bike parking supply and utilization

- WMU Operations Departments
- Student and Faculty Organizations

Update WMU policies and ordinances to reflect supported travel patterns.

- Revise/replace Section 5.8 of the WMU Traffic, Parking and Pedestrian Ordinance
- Adopt an on-campus "complete and green streets" ordinance
- Establish a permitting process to allow for the use of shared micromobility devices (bikes & scooters) on campus
- Support/expand the BroncoBikes program to increase access to bicycles for incoming students

- WMU Operations Departments
- Student and Faculty Organizations
- University Policy Committee

Cost Range

Plan Goals Served

Staff Time Only



Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Build a Comprehensive and Well-Used Bicycle Network



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities



Support the Redevelopment of the WMU Campus

\$ - \$\$



Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Build a Comprehensive and Well-Used Bicycle Network



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities

\$ - \$\$



Build a Comprehensive and Well-Used Bicycle Network



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities

Staff Time Only



Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Build a Comprehensive and Well-Used Bicycle Network



Highlight Mobility and Access as a tool to attract and retain



Highlight Mobility and Access as a tool to attract and retain



Integrate Technology and Emerging Mobility options into TMP solutions



Support the Redevelopment of the WMU Campus

Near Term Implementation Plan - Traffic & Circulation

Recommendations

Implementation Steps

Key Partners

Develop a Campus Bicycle & Pedestrian Investment Plan.

- Narrow the roadway with striping and/or curb extensions to facilitate safer travel speeds, clearer crossings, and allocate space to cyclists
- Consider traffic circles in key secondary gateways to calm traffic, keep vehicles moving, and improve pedestrian and bicyclist safety
- WMU Operations Departments
- City of Kalamazoo
- Public Safety

Improve connections between campus and off-campus bike/walk networks.

- Prioritize connections to off-campus housing and locations with high volumes of pedestrian and bicyclist collisions
- Examine locations where informal pathways indicate demand (desire lines)
- Remove gates and other non-essential barriers between campus and neighborhoods
- Pursue campus-periphery lighting improvements

- WMU Operations Departments
- Student and Faculty Organizations
- Institutional Equity
- Public Safety
- City of Kalamazoo

Redesign key gateway and oncampus intersections for alluser safety.

- Use paint and other low-cost tools to facilitate traffic calming in the near-term
- Monitor use by all travelers to inform recommendations for permanent changes and improvements
- WMU Operations Departments
- Student and Faculty Organizations
- Institutional Equity
- Public Safety
- City of Kalamazoo

Address Signal Timing and Lane Configurations at key campus gateways.

- Focus on Stadium Drive intersections as the City prepares to receive jurisdiction
- Conduct traffic and turn movement counts at these locations to inform recommendations
- Examine conversion of the Kendall/Solon one-way pair to two-way circulation
- WMU Operations Departments
- Public Safety
- City of Kalamazoo

Cost Range

Plan Goals Served





Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Create a Safe and Walkable Campus



Build a Comprehensive and Well-Used Bicycle Network



Provide Robust, Efficient, and Convenient Transit Service that serves the needs of all users



Highlight Mobility and Access as a tool to attract and retain



Support the Redevelopment of the WMU Campus

\$ - \$\$



Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Highlight Mobility and Access as a tool to attract and retain



Support the Redevelopment of the WMU Campus

\$ - \$\$\$



Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Create a Safe and Walkable Campus



Build a Comprehensive and Well-Used Bicycle Network



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Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities



Prioritize Cost-Effectiveness



Support the Redevelopment of the WMU Campus

\$ - \$\$\$\$



Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Highlight Mobility and Access as a tool to attract and retain



Support the Redevelopment of the WMU Campus

Near Term Implementation Plan - Transportation Demand Management

Recommendations

Implementation Steps

Key Partners

Add a new full-time Mobility & TDM Coordinator position to Transportation and Parking Services.

- Explore options to engage student volunteers and hire WMU students to increase department capacity
- Develop funding for this position over the course of the next three years
- Hire a full-time Transportation Coordinator as responsibilities and funding allow
- WMU Operations Departments
- Student and Faculty Organizations
- Human Resources

Create a unified and comprehensive TDM communications program.

- Develop a coordinated branding, marketing, wayfinding, and messaging framework for all outward-facing parking, mobility, and TDM communications
- Deliver communications through employee on-boarding, student orientation, commute counseling and other strategic opportunities
- Launch events, challenges, and other incentive programs to shift travel behaviors
- WMU Operations Departments
- Student and Faculty Organizations
- Human Resources
- Marketing & Strategic Communications
- Institutional Equity

Document TDM programs & effectiveness.

- Survey faculty and staff annually on travel behaviors, preferences, and experiences
- Track utilization of, and satisfaction with, available TDM benefits
- Document and promote TDM achievements each year, celebrating successes and identifying areas in need of refinement or renewed focus

- WMU Operations Departments
- Student and Faculty Organizations
- Human Resources
- Marketing & Strategic Communications
- Institutional Equity

Cost Range

Plan Goals Served





Increase Connectivity to Downtown Kalamazoo and Adjacent Neighborhoods



Create a Safe and Walkable Campus



Build a Comprehensive and Well-Used Bicycle Network



Provide Robust, Efficient, and Convenient Transit Service that serves the needs of all users



Provide and manage efficient and adequate vehicle parking accommodations



Highlight Mobility
and Access as a Er
tool to attract
and retain



Create and Integrate
Enhance Campus
Accessibility
for users of all
abilities
Into TMP
solutions



Prioritize Cost-Effectiveness



Support the Redevelopment of the WMU Campus

Staff Time Only



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities



Integrate Technology and Emerging Mobility options into TMP solutions



Prioritize Cost-Effectiveness

Staff Time Only



Provide and manage efficient and adequate vehicle parking accommodations



Highlight Mobility and Access as a tool to attract and retain



Create and Enhance Campus Accessibility for users of all abilities



Prioritize Cost-Effectiveness



Support the Redevelopment of the WMU Campus

\$ = <\$50,000 \$\$ = \$50,000 - \$150,000 \$\$\$ = \$150,000 - \$500,000 \$\$\$ = \$500,000+