

Center for Transportation Safety

Safety Research and Outreach

Law Enforcement Training on Pedestrian and Bicycle Laws

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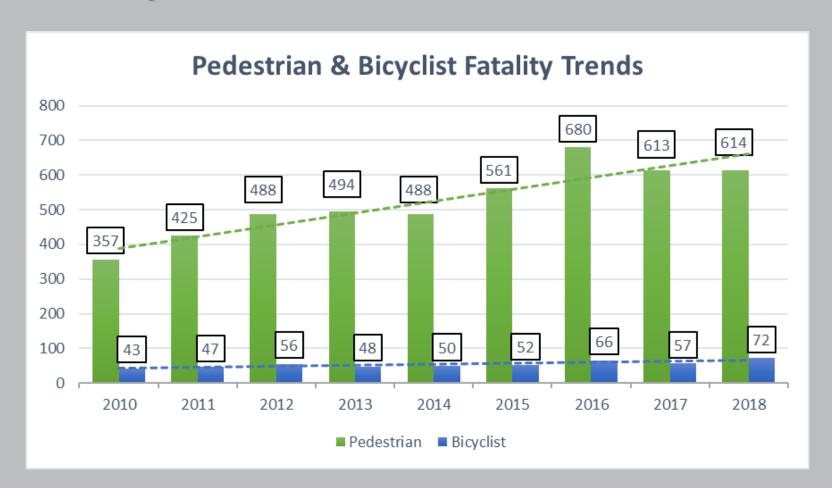
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Bicycle and Pedestrian Crashes in Texas







Course Overview

During this course, we will cover:

- The increasing number of bicycle and pedestrian related crashes
- Texas Transportation Code definitions of the rights and responsibilities for bicyclists and pedestrians
- A review of the importance of crash data
- Different bicyclist and pedestrian crash scenarios and how they should be reported
- Importance of enforcement





Course Objectives

- Motivation to increase enforcement for bicyclist and pedestrian safety
- Knowledge, skills, and abilities to conduct enforcement for bicyclist and pedestrian safety
- Knowledge, skills, and abilities to accurately complete crash reports for bicyclist and pedestrian related crashes





Sidewalk Definition

The Texas Transportation Code (Sec.541.302(16)) defines a sidewalk as the portion of a street that is:

- A. between a curb or lateral line of a roadway and the adjacent property line; and
- B. intended for pedestrian use.

According to this definition a sidewalk is simply the area intended for pedestrians that is between the curb or lateral line of a road and the property line.

This means that sidewalks do not necessarily have to be paved to be considered a sidewalk.





Sidewalk Definition







Crosswalk Definition

According to the Texas Transportation Code (Sec. 541.302(2)) a crosswalk is defined as:

- A. the portion of a roadway, including an intersection, designated as a pedestrian crossing by surface markings, including lines; or
- B. the portion of a roadway at an intersection that is within the connections of the lateral lines of the sidewalks on opposite sides of the highway measured from the curbs or, in the absence of curbs, from the edges of the traversable roadway.





Crosswalks

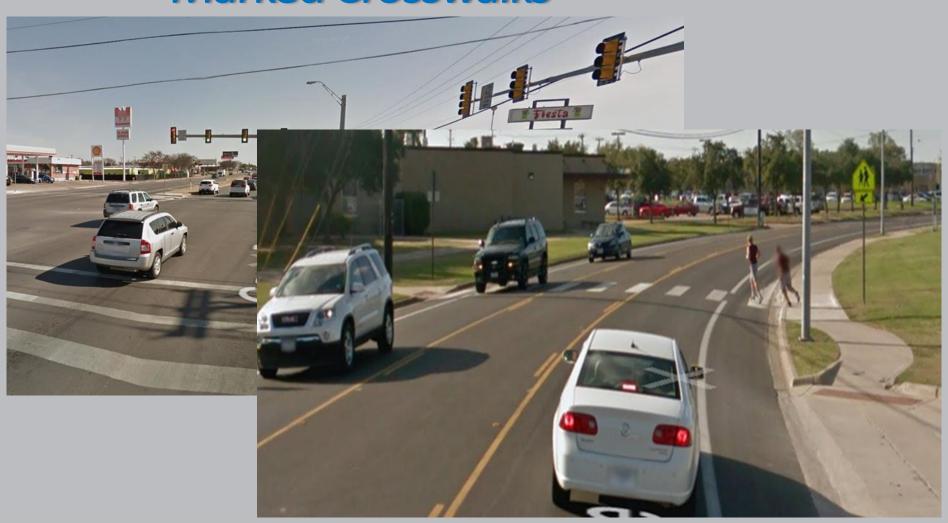
• All 4-way intersections have a crosswalk even if it is not marked with lines.







Marked Crosswalks







Unmarked Crosswalks







Crash Example #1

Unmarked Crosswalks



- Stop sign in only one direction
- No marked crosswalks





Soliciting by Pedestrians

No soliciting from on or near a highway
 (TTC, 552.007 & 0071)





- The Texas Transportation Code states that bicycles are considered vehicles, so they must obey all the same rules and regulations as a motor vehicle operator. (TTC, 551.351)
- State law puts micro-mobility devices (i.e. electric scooters) in the same category as a bicycle.

(TTC, 551.352)





Stop at stop signs and red lights

(TTC, 551.101)









TTC, 551.101, 545.104-107





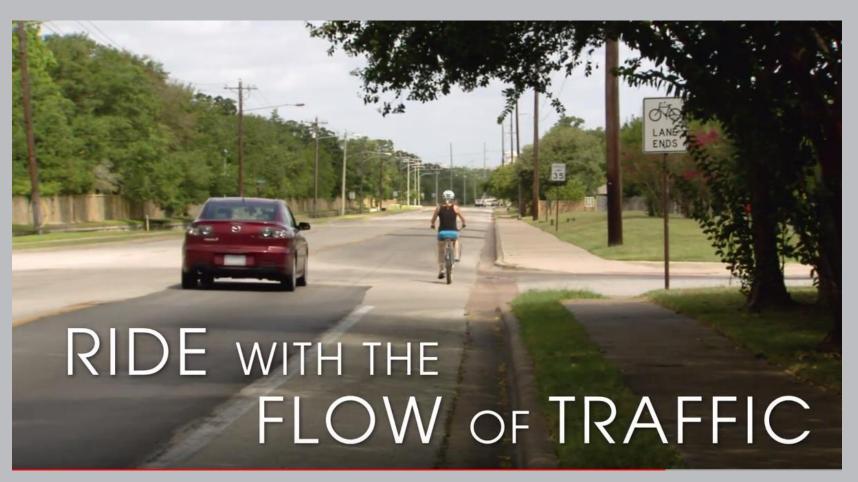
Bicyclists riding at night are required to have:



TTC, 551.104







TTC, 551.101





Ride as far to the right as practicable (TTC, 551.103)







 By Texas law, micro-mobility (or motorassisted scooters) may operate on streets with speeds limit of up to 35mph, but a local jurisdiction may prohibit use on certain roads/sidewalks.

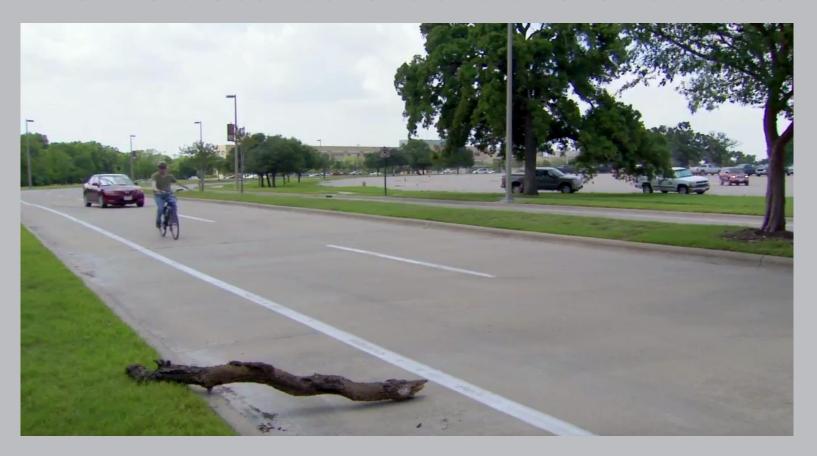
(TTC, 551.352)

 Are allowed to ride in the main travel lane, even when a bike lane is present for a few reasons (TTC, 551.103):





To avoid obstructions and uneven surfaces







To make a left turn.







 If the travel lane is less than 14 feet wide or if it is too narrow for a bicycle and motor vehicle to safely travel side-by-side.







A bicyclist is also allowed to travel on the <u>left</u>
 side of the road on a one-way street. (TTC, 551.103)





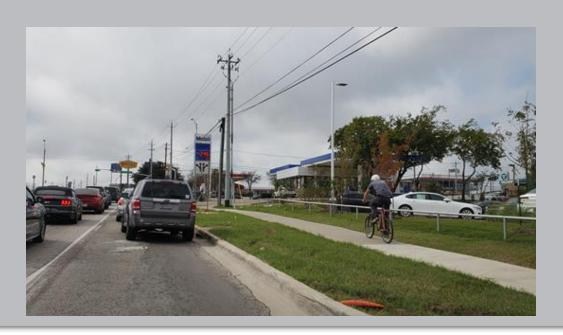


 Motorists are not allowed to text while operating on the roadway in Texas. Some city ordinances have hands free laws as well that apply to both bicyclists and drivers (TTC, 545.4251).





 Unless prohibited by city ordinance, a bicyclist has the right to ride on the sidewalk.







Crash Example #2

Bicyclist on the Sidewalk



- What happens when they get to an intersection or driveway?
- Do they have the rights of pedestrians if they are on the sidewalk?





 The Texas Transportation Code requires a vehicle to pass a bicyclist "at a safe distance." However, it does not define what a safe distance is.



TTC, 545.053, 551.101





Right-of-Way Definition

• The right of one vehicle or pedestrian to proceed in a lawful manner in preference to another vehicle or pedestrian that is approaching from a direction, at a speed, and within a proximity that could cause a collision unless one grants precedence to the other.

TTC, 541.401





Right-of-Way Definition

- To yield is to give way, letting others go first.
- Traffic control devices (signals, signs and markings) tell the road user how to behave and indicate who has the right of way.
- Where no traffic control devices exist, basic rules of the road apply
- Road users include motor vehicles, bicyclists, pedestrians, and others.
- Who yields to whom may be seen as simple, but in reality it can be quite complicated.





 Right-of-way at signalized intersections is dictated by:

A separate pedestrian signal (if equipped).

Following the signal for vehicular traffic in your

direction of travel.



TTC, 552.002





- Pedestrians are required to follow the pedestrian signals and cross only on the walk signal.
 - A pedestrian should not enter the crosswalk when it says DON'T WALK or WAIT or when the red hand is lit or flashing.



TTC, 552.002





 If no pedestrian signals are installed or in operation, the pedestrian should cross a street when the signal light is green in their direction of travel.







At all 4-way intersections not controlled by a traffic signal, pedestrians have the right-of-way, even at intersections with stop control only in one direction.



TTC, 552.003





 However, when crossing the road at a point other than a 4-way intersection or marked crosswalk a pedestrian should yield the right-of-way to all vehicles (TTC, 552.005)







 It is illegal for a pedestrian to cross a road between two adjacent intersections at which traffic control signals are in use (TTC, 552.005).







 Motorists making turns while the signal light is green are required to yield the right-ofway to pedestrians on their left and right





TTC, 552.003





Pedestrian Right-of-Way

Unless:

A green turn arrow is lit, or If the intersection uses a pedestrian only phase.





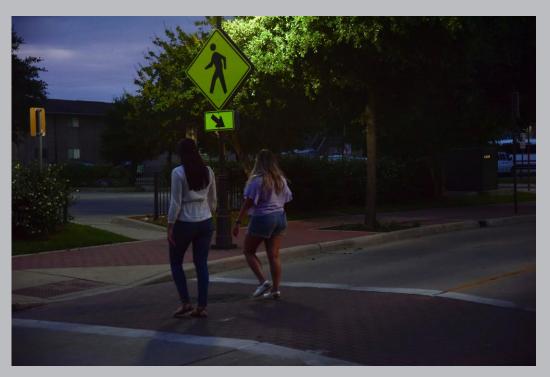
TTC, 552.001 & 002





Pedestrian Right-of-Way

 Motorists are also required to yield to pedestrians who are in a marked crosswalk that is NOT at an intersection.



TTC, 552.003





Pedestrian Right-of-Way

 A motorist approaching another vehicle from behind may not pass that vehicle if they are stopped to allow a pedestrian to cross the roadway.



TTC, 552.003





Crash Example #3

Determining Right of Way



- Pedestrian enters intersection after walk signal has begun countdown
- Car turning left on green light (not green arrow)





Bicyclist FTYROW to Motorist

- A person operating a bicycle has same rights and responsibilities as a driver operating a vehicle (TTC, 552.101). As such,
 - The bicyclist must yield to the vehicle that arrived before them at an all-way stop.
 - The bicyclist must yield to the opposing through vehicles when turning left at an intersection.





Bicyclist FTYROW to Motorist







Motorist FTYROW to Bicyclist



TTC, 545.101, 545.103, 541.401, 551.101





Motorist FTYROW to Bicyclist

 Motorists are also required to yield to an oncoming bicyclist when making a left turn.



TTC 545.152, 551.101





Crash Example #4

Shared Use Paths



- Yield sign for bikes crossing, driver has right-of-way.
- Crosswalk for pedestrians gives them right-of-way.





 This section is an overview of some of the other common laws that you may see during enforcement efforts





Texas has a statewide texting ban (TTC, 545.4251)







Impairment

(Texas Penal Code, 49.04)







Disregarding signal or stop sign – all road users



TTC, 545.151, 551.101, 552.001-003





Door Zone Laws (TTC, 545.418)







Top Pedestrian Crash Contributing Factors

Contributing Factors of Motorists

Major Contributing Factors	Number	%
Failed to Yield Right-of-Way to Pedestrian	4,276	31.4%
Driver Inattention	2,228	16.4%
Failed to Control Speed	889	6.5%
Failed to Drive in Single Lane	440	3.2%

Contributing Factors of Pedestrians

Major Contributing Factors	Number	%
Failed to Yield Right-of-Way to Motorist	10,320	85.2%
Had Been Drinking	601	5.0%
Under the Influence	529	4.4%
Pedestrian Inattention	104	0.9%





Top Bicycle Crash Contributing Factors

Contributing Factors of Motorists

Major Contributing Factors	Number	%
Driver Inattention	1,329	24.7%
Failed to Yield Right of Way to Bicyclist	731	13.6%
Failed to Yield Right of Way at Stop Sign	473	8.8%
Failed to Yield Right of Way Turning Left	462	8.6%
Failure to Control Speed	344	6.4%

Contributing Factors of Bicyclists

Major Contributing Factors	Number	%
Failed to Yield Right of Way to Motorist	873	15.7%
Bicyclist Inattention	513	9.3%
Disregard Stop Sign or Light	363	6.5%
Failed to Yield Right of Way at Stop Sign	325	5.9%
Disregard Stop and Go Signal	303	5.5%





- Contributing Factors
 - -This section of the report is designed for the investigating officer to determine which factor(s) or condition(s) contributed to the crash for each unit. The officer may not have enough evidence to file a traffic charge, but does have enough data to render an opinion as to the contributing factors of the crash. (TxDOT CR-100)





- May Have Contributed Factors
 - It is sometimes difficult to form an **opinion** as to whether a factor or condition did or did not contribute to a crash. This section is to record the fact that the condition was present, but the investigator is unable to determine whether the factor/condition contributed. (TxDOT CR-100)





- Not all contributing factors are law violations. Law violations show a legal reference to the Texas Transportation Code or the Texas Penal Code. (TxDOT CR-100)
- All factors found must be described in the narrative, even if they have been addressed in another place on the report. (TxDOT CR-100)





 Contributing Factors referencing pedestrians should be used only for pedestrians, not bicyclists or micromobility users.

- 36 = FTYROW To Pedestrian
- 59 = Pedestrian FTYROW to Vehicle





- Capture the code for the traffic control that is present at the location of the crash, even though it may have had no bearing on the causation of the crash. (TxDOT CR-100)
- If more than one traffic control is present, indicate the one most affecting this crash. (TxDOT CR-100)





- Motor Vehicle vs. Motorized Conveyance
 - Motor Vehicle
 - ATVs
 - Golf Cart
 - Moped
 - Recreational Off Highway Vehicle





- Motor Vehicle vs. Motorized Conveyance
 - Motorized Conveyance
 - Pocket Bikes
 - Go-carts
 - Riding Lawn Mowers
 - Segways
 - Motor Assisted Scooter (does not include moped, motorcycle or motor driven cycle)





- Distracted Driving
 - Reminder: Ask those involved in crash if they were distracted





Data Driven Decision Making

- Engineering
- Education
 - Outreach
 - Training
- Enforcement





Prioritizing Safety Risk

- Targeting the riskier behaviors such as:
 - Pedestrians crossing outside of an intersection or crosswalk
 - Drivers not yielding when required
 - Bicyclist riding against traffic in road
 - Bicyclist not using light at night
- Using enforcement resources to have the greatest safety benefit





Additional Stakeholders/Resources

- Engineering
 - TxDOT
 - Local Transportation Departments
- Enforcement
 - Other LEAs (such as ISD and University PD's)
 - Data (DPS, TxDOT, TTI)
- Education
 - Bicycle and Pedestrian Safety Outreach Groups
 - TxDOT
 - TTI
 - ISD's
- What additional resources does law enforcement need?





Discussion Questions

- What are some common misconceptions when it comes to where pedestrians are able to cross the roadway legally?
- Do you have ideas on ways to educate road users on the right of way laws pertaining to bicyclists, pedestrians and motorists?
- What right of way laws pertaining to pedestrian and bicyclist travel do you find confusing or do you think need clarifying?





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https://groups.tti.tamu.edu/cts/lepedbike/

