

**Oakland Public Works Department
High School Engineering Internship Program-2016**

WEEK ONE

	Transportation Engineering/Planning	Project Delivery	Engineering Design
TUESDAY (Jun 21-Jul.5-Jul 19)	<p>Introduction</p> <ul style="list-style-type: none"> • Intro to what TSD/Traffic Safety Section does, CVC, CAMUTCD, career path in TE, etc. <p>Field Data Collection</p> <ul style="list-style-type: none"> • Hose count and radar speed survey 	<p>Survey</p> <ul style="list-style-type: none"> • Record research • Field survey 	<p>Hydrology/ Hydraulics:</p> <ul style="list-style-type: none"> • Watershed Management • Storm Water Runoff • Storm Drainage Design <p>Streets/Roadway/Stairs and Path Design</p> <ul style="list-style-type: none"> • AutoCAD design • Stair and Pathway Design
WEDNESDAY (Jun 22-Jul 6-Jul 20)	<p>Traffic Safety Investigation Part I</p> <ul style="list-style-type: none"> • Field investigation for stop sign, speed bump, or other traffic control or calming device requests <p>Traffic Safety Investigation Part II</p> <ul style="list-style-type: none"> • Analysis and design of traffic control or calming devices 	<p>Survey & Project Management</p> <ul style="list-style-type: none"> • Download field data to AutoCad • AutoCad drawing • Roles of Project Management 	<p>Hydrology/ Hydraulics:</p> <ul style="list-style-type: none"> • Watershed Management • Storm Water Runoff • Storm Drainage Design <p>Streets/Roadway/Stairs and Path Design</p> <ul style="list-style-type: none"> • AutoCAD design • Stair and Pathway Design
THURSDAY (Jun 23-Jul 7-Jul 21)	<p>On-Street Parking Investigation</p> <ul style="list-style-type: none"> • Field investigation for blue zone, driveway tipping, passenger loading requests <p>Off Street Parking</p> <ul style="list-style-type: none"> • Intro to Parking Garage Operations 	<p>Materials Testing</p> <ul style="list-style-type: none"> • Sample collection • Lab. testing • Prepare reports 	<p>Right-of-Way Management & Utilities</p> <ul style="list-style-type: none"> • Introduction & site visits <p>Streets/Roadway/Stairs and Path Design</p> <ul style="list-style-type: none"> • Bridge Seismic Retrofit Design • Streetscape Improvement Design

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WEEK TWO

	Transportation Engineering/Planning	Project Delivery	Engineering Design
TUESDAY (Jun 28-Jul 12-Jul 26)	Traffic Signals: <ul style="list-style-type: none"> • Theory & Practice • Signal Design • Signal Timing 	Materials Testing <ul style="list-style-type: none"> • Sample collection • Lab. testing • Prepare reports 	Sewers <ul style="list-style-type: none"> • Auto CAD design • Sewer Design & Management Streets/Roadway/Stairs and Path Design <ul style="list-style-type: none"> • AutoCAD design • Stair and Pathway Design
WEDNESDAY (Jun 29-Jul 13-Jul 27)	Traffic Signals: Signal Operations Traffic Management Center Demo Field Work	Construction Management (Engineering project) <ul style="list-style-type: none"> • 12th Street Reconstruction Project 	Sewers <ul style="list-style-type: none"> • Auto CAD design • Sewer Design & Management Streets/Roadway/Stairs and Path Design <ul style="list-style-type: none"> • AutoCAD design • Stair and Pathway Design
THURSDAY (Jun 30-Jul 14-Jul 28)	Transportation Planning and Accessible Design Bicycle and Pedestrian Planning Transit/Parking Policy GIS use in Planning/Engineering ADA: Right-of-Way Access Training	Construction Management (Architectural project) <ul style="list-style-type: none"> • To be determined 	Pavement Design & Management Streets/Roadway/Stairs and Path Design <ul style="list-style-type: none"> • Bridge Seismic Retrofit Design • Streetscape Improvement Design