CE 474

Class 36

16 November 2015

Google Driverless Car Is Stopped by California Police for Going Too Slowly

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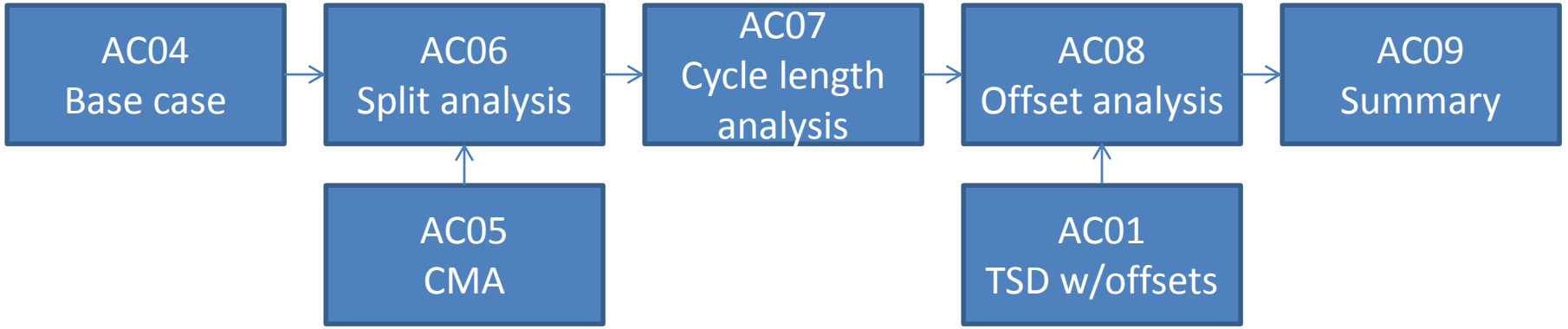
Exam #2 Preview

You should be able to:

- Construct, apply and/or interpret a time space diagram to assess and/or improve the quality of progression
- Define, interpret, and apply the concepts of offset, flow ratio, critical v-c ratio, split time, and concurrency group
- Perform a critical movement analysis, identify the critical movements, and interpret the results
- Compute split times based on the results of a critical movement analysis
- Apply and interpret measures of progression (P, R_p)

13	**Class 36 (11.16)** Build VISSIM network for system Do: AC04 (due 11.19) Slides	**Class 37 (11.18)** Build VISSIM network for system Do: AC04 (due 11.19)	**Class 38 (11.19)** Split time analysis Do: AC06 (due 11.30)
14	**Class 39 (11.30)** Cycle length analysis Do: AC07 (due 12.07)	**Class 40 (12.02)** Exam #2 Study guide	**Class 41 (12.03)** Offset analysis Do: AC08 (due 12.07)
15	**Class 42 (12.07)** Analyze data and prepare design	**Class 43 (12.09)** Analyze data and prepare design	**Class 44 (12.10)** Design project #2 presentation



- What is the performance of the base case?
  - Numeric data
  - Visual observations
- What changes in performance result from
  - Change in split times?
  - Change in cycle length?
  - Change in offsets?
- How can you effectively integrate various tools and what can you learn from each?
  - Time space diagram
  - Platoon dispersion diagram
  - VISSIM
- What do the various performance measures tell you about system and component performance?
  - Travel time
  - Delay
  - Stops

AC04 – Base Network and Evaluation

Basic timing	Timing by SG	Basic	SG number	Phase numbers from ring barrier diagram
			Minimum green	5 sec
			Vehicle extension	2 sec
			Max 1	10 sec for LT phases; 30 sec for TH phases
			Yellow	3 sec
			Red clearance	2 sec
			Max recall	Check box for all phases
			Dual entry	Check box for TH phases on major street
	Patterns/ Coordination	Pattern 1	Splits	Sum of Max 1, Yellow, Red clearance
			Coordination	Check box for TH coordinated phases on major street
			Max recall	Check box for all phases
	Pattern Schedule			Set pattern to 1
	Sequence			Set phases numbers in ring barrier diagram
Detectors	Vehicle		Detector number	Add number for each detector
			Call	Add phase number corresponding to each detector
			Extend SG	Add phase number corresponding to each detector

AC04 – Base Network and Evaluation