TRANSIT PROGRAM

Summary & Evaluation
Summer 2007

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Class Content

Day 1 (Monday, July 16)

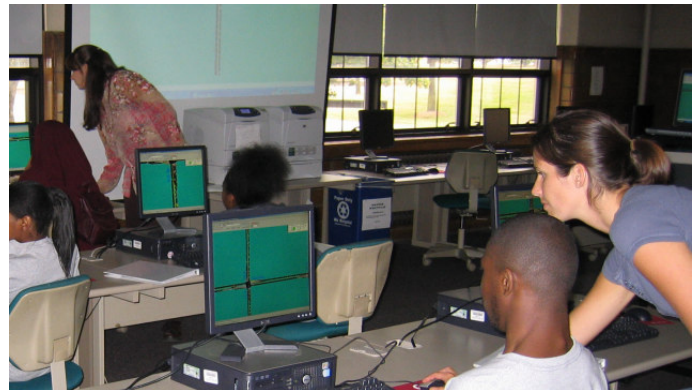|	
Pre-test	
Movie Clip, 'The Italian Job'	
Flow of Transportation	**Dr. McAvoy, Transportation Engineer**
Role of SEMCOG in Regional Transit (Southeast Michigan Council of Government)	**Tiffany Draper, SEMCOG, Traffic Division**
Review of Day I Day I Evaluations	

Day 2 (Tuesday, July 17)

Traffic Flow at Signalized Intersections	**Prof. Dutta**
How Concrete is Made	**Prof. Lynch**
Making Concrete	**Prof. Lynch**
Traffic Light System Simulation	**Dr. McAvoy & Laurel Vandeputte**
Review of Day II Day II Evaluations	

Day 3 (Wednesday, July 18)

Field Trip to the Road Commission – Oakland County http://www.rcocweb.org/home/home.asp • Vehicle Infrastructure Integration • Auto Traffic Control Problem • Real Time Signals • Auto Traffic Control Management	Gary Piotrowicz; Dawn Bierlein; Danielle Deneau
Review of Day III Day III Evaluations	

Day 4 (Thursday, July 19)

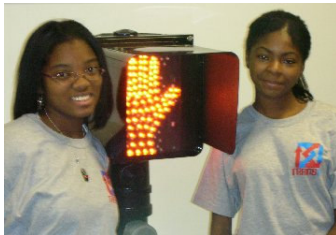| Social Justice in Transportation	Dr. Hoback
Vehicle Integrated Intelligence	Steven J. Cook, Structural Fabrication Engineer, Michigan Department of Transportation
Architecture of Urban Planning and Transportation	Christina Heximer; Virginia Stanard; Crystal Whiters; Brittany DesRocher
Review of Day IV Day IV Evaluations	

Day 5 (Friday, July 20)

Perspectives from a Traffic Engineer	**Kimberly McDaniel, Spalding DeDecker**
How to Make Concrete, Follow-up Activity	**Prof. Lynch**
Ford Motor Company Research - 'Intelligent Vehicles'	**Joe Stinnett, Ford Motor Company**
Post Test Day V - Evaluation Review of Notebooks	
The Future of Transportation	**Dean Leo Hanifin, College of Engineering and Science**
Awards, Certificates and Recognition	

Field Trip
Road Commission – Oakland County

Preparing and Testing Cement

Daily Evaluations
(1 Disagree … 5 Agree)

	Day 1	
1	**Today, I got a good overview of what this class is about**	**4.5**
2	**The Film clip from "The Italian Job" helped me understand the problem of monitoring traffic flow**	**4.0**
3	**Dr. McAvoy's presentation "Flow of Transportation" was helpful and informative**	**4.4**
4	**I now have a better understanding of the role of SEMCOG in our local traffic flow**	**4.7**
5	**My overall rating of this class today is very positive**	**4.2**

	Day 2	
1	**Today, I got a good overview of how Traffic Signals are controlled and help control traffic flow**	**3.9**
2	**I learned about 'Making Quality Concrete'**	**4.6**
3	**I now better understand and how quality concrete helps/hinders traffic flow**	**4.1**
4	**In the 'Traffic Light System Simulation' I learned about careers related to Traffic Flow**	**4.0**
5	**My overall rating of this class today is very positive**	**4.0**

	Day 3	
1	**Today, I got a good overview of the role of Oakland County Road Commission and how it affects our daily life**	**4.5**
2	**I got a chance to view the technology that helps traffic flow in our local community**	**4.4**
3	**I learned about 'Traffic Control' Problems and some solutions**	**4.5**
4	**I learned about careers related to 'Traffic Flow' and some of the college classes needed for these careers**	**4.3**
5	**My overall rating of this class today is very positive**	**4.3**

	Day 4	
1	Today, I got a good understanding of how "Social Justice" is measured in Transportation	4.2
2	I learned about '"Vehicle Integrated Intelligence"	4.4
3	I now better understand the process of improving Traffic Flow	4.3
4	The presentation on 'Architecture Development of a City' was very Interesting	4.2
5	My overall rating of this class today is very positive	4.4

	Day 5	
1	Today, we tested concrete and learned about quality and non-quality concrete	4.7
2	I learned about "How Quality Concrete helps Traffic Flow"	4.5
3	I learned about Innovations that are being added to New Automobiles	4.6
4	I learned about "The Future of Transportation"	4.6
5	My overall rating of this class today is very positive	4.7

Pre / Post Test Summary

	(Disagree = 1 … Agree = 5)	Pre-Test Mean		Post-Test Mean		Change
1	I understand and can explain how traffic is controlled in the Metro Detroit Community	2.6		4.3		**+1.7**
2	I can explain several components that make up the Michigan's Traffic Management System (TMS)	1.7		4.4		**+2.7**
3	I can list several steps in the Regional Transportation Plan (RTP) we need to make between now and 2030 to maintain our mobility	1.5		4.1		**+2.6**
4	I can define and name several characteristics of the "Flow of Transportation"	1.6		4.3		**+2.7**
5	I can identify and describe several social implications of reducing car congestion	1.8		4.6		**+2.8**
6	I understand SEMCOG's role in transportation flow in our area	1.7		4.4		**+2.7**
7	I can identify and describe the process of forming and testing cement for our roads	1.9		4.3		**+2.4**
8	I can define careers related to the 'Flow of Transportation'	2.2		3.5		**+1.3**
9	I see myself involved in a career related to the field of Transportation.	2.1		4.4		**+2.3**
10	I rate this program high, positive experience (Post test only)	X		X		**4.4**

"Meeting the Future Needs of Transportation Flow"

In review of the Pre/Post test data, we can see several positive outcomes of this class. First, the students rated the class very 'High' (4.4), and indicated they had a positive experience. The students also showed a significant increase of interest in being involved in a career related to the field of transportation, see # 9. We also see in item # 5, the students could begin to understand the social implications of decisions related to transportation.