Spring 2017 TRAN 752 TRAFFIC CONTROL

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Learning	The objective of this course is gain and understanding of traffic control laws and		
Objectives:	devices. To be able to analyze the operation of traffic signals and to describe the		
Text:	operation of these signals in a technical report. Reger P. Reger S. Prosess and William P. McShane. Traffic Engineering		
Text:	Roger P. Roess, Elena S. Prassas and William R. McShane, <i>Traffic Engineering</i> , Prentice-Hall Inc, 4 th Edition 2011.		
	Prentice-Hall Inc, 4 Edition 2011.		
	One came of the text is an resemble in the Van Hauten Library, Lean newich is 2 hours		
	One copy of the text is on reserve in the Van Houten Library. Loan period is 2-hours.		
Reference	Highway Capacity Manual. Transportation Research Board, National Research		
Text:	Council, Washington, D.C., 2010, Fifth Edition.		
TCAL.	Council, 11 asimigron, D.C., 2010, 1 min Edition.		
	U.S. Federal Highway Administration. Manual of Uniform Traffic Control Devices		
	for Streets and Highways, Washington, D.C., 2009.		
	http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/pdf_index.htm		
	http://matea.iii/wa.dott.go // pato/ 2007/112/ pat_indox.iidii		
Instructor	Emails will generally be responded to within 24-business hours Monday - Friday.		
Responsiveness:			
M 11 75 1			
Moodle Tech	If you are unable to log in or experience a problem please contact the NJIT Helpdesk -		
Support:	(973) 596-2900.		
C 1!	HW* 10%		
Grading:	Projects 20%		
	Tests (2) 45%		
	Final Project 25%		
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Homework:	Homework will not be thoroughly graded, but you will still need to turn in your homework. Credit will be provided based on your final answers given. No credit will be provided an acceptable of the provided and acceptable of the provided acceptable of the prov		
	be provided once solutions have been posted.		
	For homowork assignments you should submit two items: (1) electronic convert the		
	For homework assignments you should submit two items: (1) electronic copy of the		
	completed homework (Word, pdf, excel); and (2) An excel spreadsheet I will provide		
	to you with every homework assignment where you will input your final answers for		
	your homework. You will not be able to include all of your answers in the excel		
	spreadsheet, but I will use both parts of the submission in grading your homework.		
Electronic	You should identify how you will submit assignments electronically. You can submit		
Submissions:	all types of attachments (pdf, doc, xls). For some assignments which includes		
	calculations, it may be easier to scan your written work into a pdf and submit that		
	document, rather than type out the equations. Having access to a scanner or a printer		
	with a feature to create pdfs may be helpful. I did not include attachments that are		
	a reason to create paid may be helpful. I ald not melade attachments that are		

	photos of your assignment as it is typically difficult for me to read these types of attachments. If you choose to submit excel spreadsheets, please note that I will not be able to look at your formula or how the calculation was determined. Therefore, you should show all the steps to get to your final calculation.			
Important Dates:	Test #1 Tuesday, March 7th (6:00 – 7:30 pm) Test #2 Tuesday, April 25th (6:00 – 7:30 pm) Final Project Due – Tuesday, May 9 th , 2017			
Exam Policy	All exams are a 90 minutes administered through Moodle. Tests consists of various types of questions including some fill-in questions, some multiple choice questions, some calculation questions. The questions and some input variables will be randomly determined so each test will have some differences. The exam will be administered at the same time for all students using the Respondus Lockdown Browser and a Webcam (see below for further details)			
	To save time, it is not necessary that you show your calculations during the test should, instead, provide your final answer during the test time and submit any calculations used to reach the final answer after the completion of the test. The calculations are used to provide partial credit and to ensure that you did the wo complete the exam. No credit is provided for questions where the answer provide calculations differ from answers provided during the test. No credit is provided not show your calculations. It is better to show your work from the test partial credit can be provided, than to recreate an answer.			
	Please save your answers as you go through the test. You can revise saved answers. The exam will close precisely 90 minutes after you begin, so please keep track of the time so you can submit your answers before time runs out. If you believe you are missing information to complete the question, please make an assumption and state your assumptions in the hand calculations.			
	To avoid technical difficulties with the online test, the computer help desk suggests using Firefox or Google chrome for your internet browser while using moodle. Also your wireless connection can impact the ability to download figures or move from through the test questions without pausing. You may consider using a wired connection while taking the test. Please contact the university help desk if you would need clarification about connection problems. (973-596-2900).			
Respondus LockDown Browser and a Webcam	Respondus LockDown Browser is a locked browser for taking assessments or quizzes in Moodle. It prevents you from printing, copying, going to another URL, or accessing other applications during a quiz. If a Moodle quiz requires that LockDown Browser be used, you will not be able to take the assessment or quiz with a standard web browser. You may be required to use LockDown Browser with a webcam (Respondus Monitor), which will record you during an online exam.			
	This course requires the use of Respondus LockDown Browser and/or Respondus Monitor with a webcam for online exams. The webcam can be built into your computer or can be the type that plugs in with a USB cable. Watch this short video to get a basic understanding of LockDown Browser and the webcam feature. A student Quick Start Guide (PDF) is also available.			

- 1. Download and install LockDown Browser from this link: http://www.respondus.com/lockdown/download.php?id=264548414
- 2. Once your download has finished, locate the "LockDown Browser" shortcut on the desktop and double-click it. (For Mac users, launch "LockDown Browser" from the Applications folder.)
- 3. You will be brought to the Moodle login page within the LockDown Browser, click "Login with your UCID" to log in with your NJIT UCID and password and then click Login.
- 4. Under "My courses", click on the course in which you have to take the exam that requires the LockDown Browser.
- 5. After you enter the course, find the exam and click on it.
- 6. A confirmation prompt will appear, click the "Start attempt" button. Once a quiz has been started with LockDown Browser, you cannot exit until the Submit all and finish button is clicked.
- 7. If you are required to use a webcam (Respondus Monitor), you will be prompted to complete a Webcam Check and other Startup Sequence steps.

Week of	<u>Topic</u>	<u>Reading</u>
1/15	Introduction to Traffic Control Devices	Chapter 4
1/22	Intersection Control	4.4 – 4.6, Chapter 18, 19.5
1/29	Basic Principles of Intersection Signalization	Chapter 20
2/5	Fundamentals of Signal Design and Intersection Layout	Chapter 21
2/19	Analysis of Signalized Intersections- HCM	Chapter 23
2/26	Traffic Simulation/SYNCHRO	Handout
3/5	Test No. 1 – Tuesday, March 7 th (6:00 – 7:30 pm)	-
3/12	Signal Coordination for Arterials and Networks	Chapter 26
3/19	Spring Recess©- No Class	-
3/26	Urban Streets/Actuated Signals and Detection	Chapter 22
4/2	HCM 2010 – Signalized Intersections	Chapter 24
4/9	HCM 2010 – Urban Streets	Chapter 28/Handout
4/16	Unsignalized Intersections	Handout
4/23	Test No. 2 – Tuesday, April 25 th (6:00 – 7:30 pm)	-
4/30	Roundabouts	Hand-out
5/7	Final Project Due – Tuesday, May 9 th	-