## LAWRENCE TECHNOLOGICAL UNIVERSITY

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Department of Civil Engineering

Fall 2003 ECE3324 Environmental Engineering 1 Dr. Yuen E203 MW 5:45-7:00 PM Office: E25 E203/E04C Lab. Thurs. 4:30-6:20 PM Section: 01

Prerequisite: CHM1213 University Chemistry 1 & ECE3523 Hydromechanics.

<u>Course Description</u>: Environmental quality and objectives; standards and regulations, basic concepts of water purification; drinking water quality standards and the design of unit operations and processes in water treatment. Water plant waste management. Water quality management in rivers and lakes.

- <u>Text</u>: 1. Introduction to Environmental Engineering, Davis and Cornwell, 3<sup>rd</sup> Edition, McGraw-Hill, 1998.
  - 2. Laboratory Manual (provided by Instructor).

Scoring (%):

96-100

exam date/time.

Α

<u>Microcomputer Literacy</u>: MS WORD, MS PowerPoint, Mathcad and EXCEL spreadsheet. Grading Scheme:

Exam	1						
Exam	2			22.5% (50 minutes)			
Final I	Exam			30.0% (100 minutes)			
Oral Presentation				5.0%			
Lab. R	Reports			12.0%			
Assign	nments and	and Projects 8.0%					
$B^{+}$	86-90	$C^{+}$	71-75	$\mathrm{D}^{^{+}}$	57-60	F	
D	01.07		(( 70	<b>D</b>	52.56		

Α 91-95 C 81-85 66-70 53-56 В D  $C^{-}$ B 76-80 61-65  $\mathbf{D}$ 50-52 Makeup Exams: Makeup exams will not be given, except in cases of emergencies. In such cases, the student must contact me (248-204-2523) or the CE secretary (248-204-2545) prior to the

Topic Outline Wee Date Chapter - Section k 1 Introduction 1-2, 1-3 Aug. 28 1-4 1-5, 1-6 2 Sep.4 1-6 Water 3-1 3-1 Treatment 3 11 3-1 3-1 3-1 4 18 3-1 3-1 3-2 5 25 3-3 3-3 Exam 1 6 Oct. 2 3-4, 3-5

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3-5

			3-6
7	9		3-6
			3-7
			3-7
8	16		3-8
			3-9, 3-10
			3-10
9	23		3-10
		Water	4-1, 4-2, 4-3
		Quality	4-3
10	30	Management	4-3
		-	4-3
			Exam 2
11	Nov. 6		4-3
			4-3
			4-3
12	13		4-3
			4-4
			4-4
13	20	Introduction to Wastewater	5-1, 5-2
		Treatment Unit Processes	5-3
			5-4
14	Dec. 1	Introduction to Air Pollution	6-1, 6-2
			6-3, 6-4
			6-5
15	8	Oral Presentations	

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