

# **CENG 1700 Introduction to Environmental Engineering (Fall 23-24)**

**Lecturer: Frank Leung-Yuk LAM (Room 5580, Ext. 7239, kefrank@ust.hk)**

**Lectures: 10:30 – 12:00, Mon and Wed, LTJ**

**Tutorial: 11:00 – 11:50, Fri, LTC, (Starts on 22/09/2023)**

**Delivery Mode: Face-to-face mode**

**Zoom ID: 683-281-8979 (for recording purpose)**

## **Textbooks:**

**Mackenzie, L. Davis and David, A. Cornwell, "Introduction to Environmental Engineering", 4<sup>th</sup> ed. McGraw-Hill, 2008. (*Old edition*)**

## **Reference Books:**

**C.N. Sawyer, P.L. McCarty and G.F. Parkin, "Chemistry for Environmental Engineering and Science", 5th ed. McGraw-Hill, 2003.**

**Metcalf & Eddy, "Wastewater engineering treatment and reuse", 4<sup>th</sup> edition, McGraw-Hill, 2004**

<b>CENG1700</b>	<b>Date</b>		<b>Topics Covered</b>
<b>Week 1</b>	04, 06-Sep	Introduction	Water quality management Water/Wastewater treatment (water pollution) Air pollution control Solid waste management /treatment Waste-to-energy technology
<b>Week 2</b>	11, 13-Sep	Units and mass balance	
<b>Week 3</b>	18, 20-Sep	Environmental Chemistry	
<b>Week 4</b>	25, 27-Sep	Environmental Chemistry	
<b>Week 5</b>	04-Oct	Air Pollution Control	
<b>Week 6</b>	09, 11-Oct	Air Pollution Control	
<b>Week 7</b>	16, 18-Oct	Water/Wastewater treatment	
<b>Week 8</b>	25-Oct	Mid-term exam	Material balance Hydrology Environmental chemistry  Hazardous waste treatment
<b>Week 9</b>	30-Oct, 01-Nov	Water/Wastewater treatment	
<b>Week 10</b>	06, 08-Nov	Solid waste treatment	
<b>Week 11</b>	13, 15-Nov	Waste-to-energy technology	
<b>Week 12</b>	20, 22-Nov	Review Lecture	
<b>Week 13</b>	27, 29-Nov	Project Report and Presentation	

## **Course Assessment**

Homework assignment	10%
Mid-term exam	20%
Group project and oral presentation	30% (15% report + 15% presentation)
Final exam	40%

## **Examination**

- Cheating will not be tolerated
- 1 piece of A4 “cheatsheet” (face-to-face exam)
- Overseas students