

Tentative REM-445 Class Schedule Fall 2021

Date	Topic	Preparation	Time & Location
Sep-8	No Tutorial		Tutorial 8:30-12:20 AQ3148.2
Sep-8	First Class: Introduction I: Course readings, marking, logistics	Be prepared to state: 1. Your name 2. Academic program you are in 3. Why you took the course 4. What you hope/expect to learn	Lecture 11:30-12:20 WMC 2220
Sep-10	Introduction II Preparation for Assignment 1 and Final Project.	Explore topic areas for risk assessment project	Lecture 10:30-12:20 WMC2200
Sep-15	Introduction Preparation for Assignment 1 and Final Project.	Explore topic areas for risk assessment project	Tutorial 8:30-12:20 AQ3148.2
Sep-15	Historical Context of Environmental Risk Assessment for Pollutants: UN Stockholm Convention on POPs	Watch: History of DDT.mp4 Read UN Stockholm Convention on POPs.pdf	Lecture 11:30-12:20 WMC 2220
Sep-17	Sustainable Development Canadian Environmental Protection Act (CEPA) Exercise 1 Hand-Out	Read CEPA Preamble & Section 5 : Controlling Toxic Substances The federal Toxic Substances Management Policy of CEPA Act.pdf	Lecture 10:30-12:20 WMC2200
Sep-22	Exercise 1	Questions for TA	Tutorial 8:30-12:20 AQ3148.2
Sep-22	Canadian Environmental Protection Act (CEPA) Assignment 1 due (11:00 am).	Read CEPA Preamble & Section 5 : Controlling Toxic Substances The federal Toxic Substances Management Policy of CEPA Act.pdf	Lecture 11:30-12:20 WMC 2220
Sep-24	Exercise 1 Answers Canadian Environmental Protection Act (CEPA) Exercise 2 Introduction Exercise 2 Hand-Out Exercise 1 due (10:00 am)	Read CEPA Preamble & Section 5 : Controlling Toxic Substances The federal Toxic Substances Management Policy of CEPA Act.pdf Questions for Professor	Lecture 10:30-12:20 WMC2200
Sep-29	Exercise 2	Questions for TA	Tutorial 8:30-12:20 AQ3148.2

Sep-29	Chemicals: Environmental properties & Fate	Read sections 2.1, 2.2, 3.1-3.4 from Multi Media.pdf	Lecture 11:30-12:20 WMC 2220
Oct-1	Exercise 2 Answers Chemicals: Environmental properties & Fate Introduction Exercise 3 Hand-out Exercise 3 Exercise 2 due (10:00 am)	Read sections 2.1, 2.2, 3.1-3.4 from Multi Media.pdf	Lecture 10:30-12:20 WMC2200
Oct-6	Exercise 3	Read sections 2.1, 2.2, 3.1-3.4 from Multi Media.pdf	Tutorial 8:30-12:20 AQ3148.2
Oct-6	Environmental Distribution of Pollutants	Read sections 2.3-2.9, 4.1-4.7, 5,1, 5.4-5.7, 6.1-6.8 from Multi Media.pdf	Lecture 11:30-12:20 WMC 2220
Oct-8	Exercise 3 Answers Environmental Distribution of Pollutants Introduction Exercise 4 Hand-out Exercise 4 Hand-out Assignment 2 Exercise 3 due (10:00 am)	Read sections 2.3-2.9, 4.1-4.7, 5,1, 5.4-5.7, 6.1-6.8 from Multi Media.pdf	Lecture 10:30-12:20 WMC2200
Oct-13	Exercise 4	Questions for TA	Tutorial 8:30-12:20 AQ3148.2
Oct-13	Food-Web Bioaccumulation	Read: Bioconcentration and biomagnification in the Aquatic Environment	Lecture 11:30-12:20 WMC 2220
Oct-15	Exercise 4 Answers Food-Web Bioaccumulation Introduction Exercise 5 Hand-out Exercise 5 Exercise 4 due (10:00 am)	Read: Bioconcentration and biomagnification in the Aquatic Environment	Lecture 10:30-12:20 WMC2200
Oct-20	Exercise 5	Questions for TA	Tutorial 8:30-12:20 AQ3148.2
Oct-20	Toxicity	Read Chapter 1 of Principles of Toxicology - Environmental and Industrial Applications 2nd ed.pdf	Lecture 11:30-12:20 WMC 2220
Oct-22	Exercise 5 Answers Toxicity Introduction Exercise 6 Hand-out Exercise 6 Exercise 5 due (10:00 am)	Read Chapter 1 of Principles of Toxicology - Environmental and Industrial Applications 2nd ed.pdf	Lecture 10:30-12:20 WMC2200
Oct-27	Exercise 6 Assignment 2 is due (8:00 am)	Questions for TA	Tutorial 8:30-12:20 AQ3148.2
Oct-27	Hazard and Risk Assessment	Read: https://www.epa.gov/risk	Lecture 11:30-12:20 WMC 2220

Oct-29	Exercise 6 Answers Assignment 2 Answers Hazard and Risk Assessment Introduction Exercise 7 Hand-out Exercise 7 Hand-out Assignment 3 Exercise 6 due (10:00 am)	Read: https://www.epa.gov/risk	Lecture 10:30-12:20 WMC2200
Nov-3	Exercise 7	Questions for TA	Tutorial 8:30-12:20 AQ3148.2
Nov-3	Ecological Risk Assessment	Read: Ecological Risk Assessment Handbook.pdf https://www.epa.gov/risk	Lecture 11:30-12:20 WMC 2220
Nov-5	Exercise 7 Answers Ecological Risk Assessment Introduction Exercise 8 Hand-out Exercise 8 Exercise 7 due (10:00 am)	Read: Ecological Risk Assessment Handbook.pdf https://www.epa.gov/risk	Lecture 10:30-12:20 WMC2200
Nov-10	Exercise 8	Questions for TA	Tutorial 8:30-12:20 AQ3148.2
Nov-10	Activity based risk assessment Assignment 3 is due (11:00 am)	Mackay et al. 2011. Chemical activity as an integrating concept in environmental assessment and management of contaminants. <i>Integ Environ Assess Manag</i> 7:248-255. Mackay in IEAM.pdf Gobas et al. 2018. A Chemical Activity Approach to Exposure and Risk Assessment of Chemicals. <i>Environ. Toxicol. Chem.</i> 37(5):1235-1251. Gobas ETC Focus.pdf	Lecture 11:30-12:20 WMC 2220
Nov-12	Exercise 8 Answers Assignment 3 Answers Activity based risk assessment Introduction Exercise 9 Hand-out Exercise 9 Exercise 8 due (10:00 am)	Mackay et al. 2011. Chemical activity as an integrating concept in environmental assessment and management of contaminants. <i>Integ Environ Assess Manag</i> 7:248-255. Mackay in IEAM.pdf Gobas et al. 2018. A Chemical Activity Approach to Exposure and Risk Assessment of Chemicals. <i>Environ. Toxicol. Chem.</i> 37(5):1235-1251. Gobas ETC Focus.pdf	Lecture 10:30-12:20 WMC2200

Nov-17	Exercise 9	Questions for TA	Tutorial 8:30-12:20 AQ3148.2
Nov-17	Summary of Environmental Risk Assessment Methods; Professional & Educational Opportunities in environmental risk assessment	Prepare Questions Risk Assessments & Risk Assessment Projects	Lecture 11:30-12:20 WMC 2220
Nov-19	Exercise 9 answers	Prepare Questions Risk Assessments & Risk Assessment Projects	Lecture 10:30-12:20 WMC2200
Nov-24	Summary of Environmental Risk Assessment Methods; Professional & Educational Opportunities in environmental risk assessment Questions Risk Assessments & Risk Assessment Project	Prepare Questions for Environmental Risk Assessments & Environmental Risk Assessment Projects	Tutorial 8:30-12:20 AQ3148.2
Nov-24	Exercise 9 Answers	Questions for Professor	Lecture 11:30-12:20 WMC 2220
Nov-26	Risk Assessment Projects	Prepare Risk Assessment Project Presentation	Lecture 10:30-12:20 WMC2200
Dec-1	Risk Assessment Projects	Prepare Risk Assessment Project Presentation	Tutorial 8:30-12:20 AQ3148.2
Dec-1	Risk Assessment Projects	Prepare Risk Assessment Project Presentation	Lecture 11:30-12:20 WMC 2220
Dec-3	Risk Assessment Projects Course Evaluation	Prepare Risk Assessment Project Presentation	Lecture 10:30-12:20 WMC2200

Office Hours: Fridays 14:30 – 15:30. Or e-mail to make an appointment.