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ENVH 7235 - Field Methods in Environmental Health

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ENVH7235-2017-Overview of the Content to be Covered During the Semester (revised):

Week/Class date	Topic	Readings	Assignment
1 08/16/2017	Welcome. Course Overview & Introduction; Requirements & Expectations; Field investigation plan outline	Syllabus	Acquire textbook Complete plagiarism training and submit certificate to the Folio Dropbox
2 08/23/2017	Overview of environmental sampling; Data reliability, sampling and analytical errors	Chapter 1	Problems 1-7 (Chapter 1) Group #1 presentation
3 08/30/2017	Essentials of analytical and organic chemistry; Common pollutants; Elements of hydrology and geology	Chapter 2	Problems 1-6, 8 (Chapter 2) Group #2 presentation
4 09/06/2017	Environmental statistics; Exercises	Chapter 2	Complete and submit #1 case study calculations Group #3 presentation
6 09/20/2017	Design of environmental sampling	Chapter 3	Problems 16-20 (Chapter 3)
7 09/27/2017	Environmental sampling techniques	Chapter 4	Problems 18-20 (Chapter 4)
8 10/04/2017	MIDTERM EXAM	Textbook, handouts and lecture notes.	Review the calculations
9 10/11/2017	Exam result review Methodology used for QA and QC	Chapter 5	Problems 22, 23, 27, 28 (Chapter 5)
10 10/18/2017	Sediment and soil contaminant. Soil sampling field exercise	Chapter 4	Problems 6-12 (Chapter 4)
11 10/25/2017	Surface water and ground water contaminants and sampling. Field exercise	Chapter 4	Submit soil sampling report
12 11/01/2017	Air and stack emission sampling. Field exercise. Review of QA/QC. Review of water sampling and analysis.	Chapter 4 & %	Submit water sampling report
13 11/08/2017	Review of QA/QC. Hazardous waste sampling and biological sampling. Review of air sampling and analysis.	Chapter 4 & 5	Submit air sampling report; Submit an outline and an abstract for an environmental sampling plan (not graded)
13 11/15/2017	Basic operations in environmental laboratory; overview of common techniques	Chapter 6	Submit an outline and an abstract for an environmental sampling plan (not graded)
14 11/15/2017	Basic operations in environmental laboratory; overview of common techniques Data analysis and reporting	Chapter 6 and Handouts	Submit a literature review for the sampling plan for a preliminary review and suggestions (not graded)
15 11/22/2017	Thanksgiving: no classes		Work on your final paper
16 11/29/2017	In class exam review and consultation Final Examination –take home	All recommended materials including textbook, handouts, assignments & class presentations	Review the calculations
17 12/06/2017	Presentations of the environmental sampling design plan	Prepare your presentation and final paper	Submit your final paper and PowerPoint