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Students will learn about analytical techniques used in environmental chemistry, including: gas and liquid chromatography, mass spectrometry, atomic absorption, and ultraviolet-visible spectroscopy. Environmental sampling and ecotoxicology will also be covered. Students will carry out laboratory analyses and receive hands-on training with analytical instrumentation commonly used in environmental chemistry.

CHMB55H3 and CHMC11H3.

CHMC16H3, CHM317H (St. George campus), CHM410H (St. George campus).

All course work including the Research Project and Laboratory Reports must be prepared using MS Office (or equivalent) software and submitted using Turnitin.com (see section on plagiarism). Students will also be required to submit hardcopies of their work to the course instructor or teaching assistant.

Late assignments will not be accepted and assigned a grade of zero.

There is no required textbook for this course and lecture notes will cov Examination material

will include emphasized lecture material only (lecture material will be discussed in detail in class). Students should make every attempt to attend lectures regularly.

Monday, January 8 th	- Course introduction and overview	
	- Sampling and isolation of compounds for quantification	
	and identification	
	- Basics of analytical measurements and quantification	
Monday, January 15 th	- Gas chromatography & related analytical detectors	
Monday, January 22 nd	- Liquid chromatography & related analytical detectors	
Monday, January 29 th	- Metal analysis (atomic absorption and atomic emission)	
Monday, February 5 th		
the second se	- Guest speakers (2-4pm)	
Monday, February 12 th	- Student Project Presentations (order of presentations to	
Let the state	be determined)	
Monday, February 19 th	Family day & reading week	
	No lecture	
Monday, February 26 th	Group 1 – Analysis of PAHs in soil by GC	
Nassila Nassila Th	Group 2 – Analysis of water by LC & IC	
Monday, March 5 th	Group 1 – Analysis of PAHs in soil by GC (continued)	
NASSIA NASSA 10 th	Group 2 – Analysis of water by LC & IC (continued)	
Monday, March 12 th	Group 1 – Analysis of PAHs in soil by GC (continued)	
Name and Advertised of the	Group 2 – Analysis of water by LC & IC (continued)	
Monday, March 19 th	Group 2 – Analysis of PAHs in soil by GC	
ha h ha h orth	Group 1 – Analysis of water by LC & IC	
Monday, March 26 th	Group 2 – Analysis of PAHs in soil by GC (continued)	
ha hand	Group 1 – Analysis of water by LC & IC (continued)	
Monday, April 2 nd	Group 2 – Analysis of PAHs in soil by GC (continued)	
	Group 1 – Analysis of water by LC & IC (continued)	
Friday, April 6 th	Last day for submission of term assignments	
	No laboratory experiments	