

# CHEMISTRY LECTURE/LAB (CHMC)

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**CHMC 2910 Chemical Research****Credit Hours:** 4**Prerequisites:** CHM 1045 and CHML 1045 or CHM 1045H and CHML 1045H - both courses with a grade of "C" or higher**Lab Fee:** Yes

This course will introduce students to the general principles and practical implementation of chemical research. Students will conduct research under the guidance of the instructor and may work individually or in a group. Skills to be learned include, but are not limited to the following: forming testable hypotheses; researching and critiquing literature; designing and conducting scientific experiments; collecting and organizing data; analyzing data and making appropriate conclusions; and presenting research results.

**CHMC 3120 Analytical Chemistry with Laboratory****Credit Hours:** 4**Prerequisites:** CHM 1046 and CHML 1046 - both courses with a grade of "C" or higher and admission to Bachelor's program required**Lab Fee:** Yes

This course defines and illustrates the analytical approach to chemical analysis. It is devoted to the exploration of quantitative analysis, statistical treatment of data, acid-base equilibria and titrations, precipitation and complex formation, electrochemistry, oxidation-reduction, spectro-photochemical analytical methods and chromatographic techniques. This is a combined lecture and laboratory course.