CH474 **INSTRU METHODS OF ANALYSIS** **3.5 Credit Hours**

(BS=3.5,ET=0.0,MA=0.0)

Scope: 2013-1

Offerings:
2014-1 2015-1

A laboratory course designed to develop proficiency in the selection and use of modern instrumental methods of chemical analysis. Topics include atomic spectroscopy, molecular absorption and fluorescence spectroscopy, infrared and Raman spectroscopy, nuclear magnetic resonance and mass spectrometry, and chromatography. The laboratory program includes a Capstone experimental procedure and methodology design component. Cadet laboratory work is evaluated in terms of the student's ability to determine the proper instrumental methodology to analyze a chemical sample.

Lessons: 32 @ 55 min (2.500 Att/wk) **Labs:** 15 @ 120 min

Special Requirements: One project report on a selected research topic.

Prerequisite(s): CH371 PH204
-Or-
CH371 PH254
-Or-
CH371 PH202
-Or-
CH371 PH252

Corequisite(s): CH384