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Course description: Experimental techniques in synthetic chemistry and physical characterization of organic and inorganic molecules. Laboratory tutorials will illustrate concepts and provide practice in structure determination

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Develop the ability to follow a literature synthetic procedure

Develop the ability to perform synthetic experiments

Develop the ability to perform purification procedures

Apply physical, spectroscopic and spectrometric methods to the characterization of compounds

Apply physical and spectroscopic methods to the characterization of mixture of compounds

Develop the ability to use analytical and one or more spectroscopic data to assign molecular structure

Develop an understanding of the relevance of isotopes to the characterization of laboratory samples

Develop the ability to apply the relationships between electronic structure and the spectroscopic or magnetic properties of materials

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Develop the ability to work competently, independently and safely in a laboratory environment.