CHEM2225 - Organic Chemistry II

Credits:	5 (4/1/0)
Description:	Meets MnTC Goal Areas 2 and 3. This course is the second of a two-course series (CHEM2224 and CHEM2225). Students will learn the reactions and characteristics of various organic chemistry groups. The following topics will be included: functional groups, nomenclature and preparation, structure and reactivity, reaction representation and interpretation, reaction considerations and spectroscopy. The course includes a lab which will include purification, synthesis and characterization of organic compounds and the study of organic reactions. Green chemistry techniques will be practiced whenever possible.
Prerequisites:	• CHEM2224
Corequisites:	
Pre/Corequisites [*] :	



structure, formal of 2. Translate betwee 3. Create and emp stereochemical iso 4. Identify various benzenes, aldehyd complex moleculer relevant reactions 5. Predict the proof nucleophilic acyl areactions through 6. Create logical s sequences. 7. Propose reaction 8. Employ data from compounds, and of 9. Identify structur 10. Plan organic of 11. Perform succer and equipment, pro- 12. Separate and 13. Determine the spectroscopic met 15. Model the scier experiments or pri and execution. 16. Demonstrate ri of proper fume ho 17. Communicate the experimental presentation.	ntific method by performing inquiry- or research-based laboratory ojects in which the student makes decisions regarding experimental design esponsible laboratory safety and waste handling practices including the use ods or fume extraction for chemicals that emit hazardous vapors. the procedure, results and relative success of an experiment with respect to objectives in the form of a laboratory notebook, written reports or verbal
MnTC goal areas: 2. Critical Thinking 3. Natural Science	

*Can be taking as a Prerequisite or Corequisite.