Assessment: Course Four Column

Courses (SCI) - Chemistry

CHEM 242:Organic Chemistry II

Course Outcomes	*Assessment Measures*	*Results*	*Actions*
Solve organic structures (IR, NMR, MS, UV) - Students will be able to use the following techniques to solve organic structures (IR, NMR, MS, UV). **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Exam -** Lecture exams **Criterion:** 70%	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 77% average on relevant problems Results Analysis: There were very many problems on this during the semester. Students did well. (02/05/2019)	**Action:** continue what I am doing (02/05/2019)
Apply principles of reactions, reactivity, structure, and nomenclature - Students will be able to apply principles of reactions, reactivity, structure, and nomenclature of several of the following: amino acids, peptides, proteins, carbohydrates, lipids, and nucleic acids to solving problems. **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Exam -** Lecture exams **Criterion:** 70%	**Reporting Period:** 2017-2018 **Criterion Met:** No 65% average on relevant problems Results Analysis: This is a small module that comes at the end of the course. Students did poorly on it. (02/05/2019)	**Action:** More time needs to spent on this subject at the end of the course. I think it is that simple. (02/05/2019)
Apply principles - Students will be able to apply principles of reactions, reactivity, structure, and nomenclature of aromatic compounds, organohalides, alcohols, phenols, thiols, ethers, sulfides, aldehydes, ketones, carboxylic acids,	**Exam -** Lecture exams **Criterion:** 70%	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 76% average on relevant problems Results Analysis: This is essentially the entire CHEM 242 course worth of	**Action:** continue what I am doing (02/05/2019)

Course Outcomes	Assessment Measures	Results	Actions
nitriles, carboxylic acid derivatives, amines, and heterocycles to solving problems. **Course Outcome Status:** Active **Next Assessment:** 2022-2023		exam problems. Students did well this semester. (02/05/2019)	
Solve comprehensive, multistep organic synthesis - Students will be able to solve comprehensive, multistep organic synthesis problems involving functional groups and reagents from the first semester and second semester of this course. **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Exam -** Lecture exams **Criterion:** 70%	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 75% average on relevant problems Results Analysis: I increased my emphasis on this during this year because it was a low point in previous years. (02/05/2019)	**Action:** I think that there needs to be even more emphasis on this subject. (02/05/2019)