Course Outcomes Form
Northwest Indian College

All hand-outs are posted on the faculty website at www.nwic.edu/faculty (follow the Assessment link)

Before completing this form, please refer to the *Instructions for Completing the Course Outcomes Form.* Please submit this form electronically to Shidon Aflatooni at saflatooni@nwic.edu.

Last date this form was updated or edited	May 3, 2007
Course Number (e.g., ENGL 101)	Chem 112
Course Name (e.g., English Composition I)	Organic Chemistry
List all instructor(s) who participated in creating and approved these course outcomes (please consult with at least one other person)	Rochelle Troyano, Adib Jamshedi
List the main textbooks, readings or other resources used in this course (including title, year and publisher)	General, Organic, and Biological Chemistry, 4th Edition, by H Stephen Stoker, 2007

A. NWIC outcomes: From the *List of NWIC Outcomes*, select the *most* important outcomes you *assess* in this course (at least **one** NWIC outcome must be chosen- **maximum of four**).

NWIC outcome # (e.g., "Written communication: 2a. write standard English")	**Instructional Activities: How will students master this outcome? (e.g., solving problems, group activity)**	**Assessment/Evaluation Strategies: How will you measure this outcome? (e.g., student presentations, essays)**
Oral communication skills 3a. apply effective presentation skills	Students will make several oral presentations in class	Presentations will show students ability to research, understand and orally present assigned topics in organic chemistry
Quantitative skills 5b. use analytical and critical thinking skills to draw and interpret conclusions	Students will be required to understand the structure and reactions of organic compounds	Students will be able to identify specific reaction mechanisms in organic chemistry

B. Course outcomes: In order of priority, list the *most* important other learning outcomes for this course that you **assess** (**a maximum of 10**).

Other course outcomes: Complete the sentence – **As a result of this course, students will be able to…**	**Instructional Activities: How will students master this outcome? (e.g., solving problems, group activity)**	**Assessment / Evaluation Strategies: How will you measure this outcome? (e.g., student presentations, essays)**
1. Identify characteristics of saturated and unsaturated hydrocarbons. Memorize structures and names of hydrocarbons using IUPAC nomenclature. Physical and chemical properties of saturated hydrocarbons	1. Presentation of lecture based on text. 2. Models will be used to visualize structures and reactions	1. Exams employing short answer questions. 2. Daily quizzes to enhance recall.
2. Identify structural characteristics and nomenclature of Alcohols, Phenols, and Ethers. Memorize structures, names, and reaction mechanisms.	1. Presentation of lecture based on text. 2. Case studies	1. Exams employing short answer questions. 2. Daily quizzes to enhance recall.
3. Identify structural characteristics, nomenclature and reactions of Aldehydes and Ketones.	1. Presentation of lecture based on text.	1. Exams employing short answer questions. 2. Daily quizzes to enhance recall.
4. Identify structural characteristics, nomenclature and reactions of Carboxylic acids, Esters and acid derivatives.	1. Presentation of lecture based ob text.	1. Exams employing short answer questions. 2. Daily quizzes to enhance recall.
5. Identify nomenclature and reactions of Amines and Amides	1. Presentation of lecture based on text.	2. Exams employing short answer questions. 3. Daily quizzes to enhance recall.
6. Perform various lab techniques	1. Lab presentations 2. Use of internet to demonstrate some lab techniques	1. Lab work and written reports.

C. Please list the NWIC outcomes and course outcomes from above on your syllabus.

D. Please assess the NWIC outcomes and course outcomes, which are listed above, in your classes.