

COURSE EVALUATION FORM: CEM 355
Student Perceptions of Critical Thinking

Semester _____

Course Section _____

Instructions: Do not put your name on this sheet. Circle the appropriate response for each item (1-9) and respond in your own words to item 10.

Low
Score

High
Score

- | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|
| 1) Does the supplementary information included in the syllabus provide sufficient information to allow you understand and complete the experiment? | 1 | 2 | 3 | 4 | 5 |
| 2) Do the pre-lab readings in "Operational Organic Chemistry" (Lehman) and assignments prepare you to understand and perform the operations necessary to complete the experiment? | 1 | 2 | 3 | 4 | 5 |
| 3) Does your instructor teach so as to encourage critical thinking in the learning process? | 1 | 2 | 3 | 4 | 5 |
| 4) Does your instructor teach so as to help you learn how to make inferences justified by data or information? | 1 | 2 | 3 | 4 | 5 |
| 5) Do you feel adequately prepared to draw conclusions about the experiment based on your results and observations? | 1 | 2 | 3 | 4 | 5 |
| 6) Does preparing the laboratory report enhance your understanding of the experiment you performed? | 1 | 2 | 3 | 4 | 5 |
| 7) Do the laboratory report assignments encourage you to think critically about the experiment and your results? | 1 | 2 | 3 | 4 | 5 |
| 8) After taking this course, how confident are you in performing the following laboratory techniques? | | | | | |
| A) Melting Point | 1 | 2 | 3 | 4 | 5 |
| B) Distillation | 1 | 2 | 3 | 4 | 5 |
| C) TLC | 1 | 2 | 3 | 4 | 5 |
| D) Column chromatography | 1 | 2 | 3 | 4 | 5 |
| E) Extraction | 1 | 2 | 3 | 4 | 5 |
| F) Recrystallization | 1 | 2 | 3 | 4 | 5 |
| G) NMR Spectroscopy – acquisition and characterization | 1 | 2 | 3 | 4 | 5 |
| H) IR Spectroscopy – acquisition and characterization | 1 | 2 | 3 | 4 | 5 |
| I) Data Analysis | 1 | 2 | 3 | 4 | 5 |
| J) Drawing conclusions from data | 1 | 2 | 3 | 4 | 5 |

- 9) What do you do before class to prepare for the laboratory experiment? Circle all that apply.
- A) Read the Supplementary Resources included with the syllabus
 - B) Write a pre-lab summary in my laboratory notebook
 - C) Read the relevant operations in “Operational Organic Chemistry” (Lehman)
 - D) Google the experiment for more information
 - E) Discuss the experiment with classmate(s)
 - F) Nothing
 - G) Other: _____
- 10) How could the course materials and assignments for this course be modified to enhance your learning and understanding of the subject matter?