

Chemistry Professional ePortfolio

General Chemistry

- Rationale: Initiates student development in the areas of analytical problem solving, critical thinking, and decision making.
- Artifacts: Dimensional analysis lab; Kinetics lab abstract; Life impact statement

Organic Chemistry

- Rationale: Continues student development of critical thinking, and decision making skills, as well as initiates development of information literacy.
- Artifacts: Determination of Unknown Lab Flowchart; Research paper; Life impact statement

Quantitative Analysis

- Rationale: Assists students in the use of critical thinking to quantitatively analyze laboratory results through the effective use of information.
- Artifacts: Comparison of Analytical Laboratory Methods; Analytical Problem Solving Excel Spreadsheet Assignment

Physical Chemistry

- Rationale: Integrates skills in analytical problem solving to assist students in making meaningful decisions.
- Artifacts: Analytical Problem Solving Assignment; Life Impact Statement

Chemical Instrumentation

- Rationale: Continues to develop student's analytical laboratory skills and introduces skills required to work in a dynamic group environment to solve problems.
- Artifacts: Laboratory Group Project Peer Evaluation

Senior Paper

- Rationale: Emphasizes student communication of laboratory results through the use of written media.
- Artifacts: Senior Paper

Senior Seminar

- Rationale: Emphasizes student communication of laboratory results through the use of oral presentation.
- Artifacts: PowerPoint Presentation; Summary of Presentation