

## Indiana University

**CHEM-T 590 Chemistry Capstone - Summer 2022 (O81 - June 6 - July 30, 2022)**

**Format: Online Asynchronous**

Name: **Dr. Yu Kay Law**

Email: [lawy@iue.edu](mailto:lawy@iue.edu)

### Course Description:

The goal of this course is for students to be able to synthesize what they have learnt in previous coursework from two or more subdisciplines of chemistry (analytical, inorganic, organic, physical, biological) as well as what they learn from the chemical literature to develop a learning module that introduces novel concepts and applications to introductory chemistry students. Students will integrate their knowledge and understanding from literature that transcends subdisciplinary boundaries of chemistry.

We will begin by reviewing how to locate materials from the scientific literature and specific skills in cheminformatics and chemical drawing tools. Students will then work in small groups to design and develop their own learning module on an approved topic.

### Goals for the Course

1. Locate, analyze, and synthesize knowledge from chemical literature and other reliable sources.
2. Explain chemical concepts described in the chemical literature and apply them to everyday life where appropriate.
3. Synthesize concepts and information from across different subdisciplines of chemistry.
4. Present concepts from the chemical literature at a level appropriate for general chemistry students at the university level.

### Required Texts

None. Students will be expected to research and read widely.

### List of course readings

Due to the nature of this course, students will need to search and locate articles from the chemistry literature widely through the IU libraries. These will vary depending on the group project for the student's group.

