

## HKUSI CHEM3445 Integrated Laboratory 2025 Course Outline

### Learning Outcomes:

- Demonstrate a good practice of laboratory safety and exercise proper procedures for safe handling and usage of chemicals
- Demonstrate proficiency in synthetic chemical laboratory techniques
- Apply modern instrumentation techniques to characterize organic compounds and draw conclusions from the results
- Analyze the influence of chemical structure on the physical and chemical properties of organic molecules
- Demonstrate problem-solving skills, critical thinking and analytical reasoning

### Schedule:

6 full day experiments (Including Practical Exam), 3 tutorials and 1 presentation

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
<b>Week 1</b>	<b>30 June</b> <b>Expt 1</b> <b>09:30-17:30</b>	<b>1 July</b> <b>Public</b> <b>Holiday</b>	<b>2 July</b> <b>Expt 2</b> <b>09:30-17:30</b>	<b>3 July</b> <b>Tutorial 1</b> <b>2hrs.</b>	<b>4 July</b> <b>Expt 3</b> <b>09:30-17:30</b>
<b>Week 2</b>	<b>7 July</b> <b>Expt 4</b> <b>09:30-17:30</b>	<b>8 July</b> <b>Tutorial 2</b> <b>2 hrs.</b>	<b>9 July</b> <b>Expt 5</b> <b>09:30-17:30</b>	<b>10 July</b> <b>Presentation</b> <b>2-3 hrs</b>	<b>11 July</b> <b>Practical</b> <b>Exam</b> <b>09:30-17:30</b>

### Assessment:

Pre-lab Quiz: 35%

Lab Report: 10%

Lab Performance: 10%

Presentation: 20%

Practical Exam: 25%