

## CHEM1.2: ORGANIC CHEMISTRY

### I. Course description:

1. **Credit points:** 3 ECTS

2. **Time commitment:**

Items	Lecture	Tutorial	Practical	Total
No. of hours	21	9	0	30

3. **Prerequisites:** N/A

4. **Recommended background knowledge:** N/A

5. **Subject description:**

This course is designed to help USTH's 1<sup>st</sup> year students with understanding Organic chemistry—a science—which began as a tentative attempt to understand the chemistry of life. It has grown into the confident basis of vast multinational industries that feed, clothe, and cure millions of people.

6. **Objectives & Outcome:**

- Students will be able to solve problems from various areas of Organic chemistry, including stereochemistry, reactivity patterns and synthesis
- Student will also develop learning strategies, critical-thinking, and problem-solving skills

7. **Assessment/ Evaluation**

Component	Attendance + Homeworks	Exercises	Assignments	Practical	Midterm	Final
Percentage %	0	0	0	20	20	60

8. **Prescribed Textbook(s):** N/A

### II. Course content & schedule:

1. Summary on fundamentals of organic chemistry
2. Alkanes and cycloalkanes
3. Alkenes and alkynes
4. Alcohols and ethers
5. Aromatic compounds

6. Aldehydes and ketones
7. Carboxylic acids and their derivatives
8. Phenols and aryl halides

**III. Reference Literature:**

[1]. Selected reading paragraphs together with presentation handouts will be sent to students.

[2]. Bruice, Organic Chemistry, 4th edition