

Orientation
Organic Chemistry Lab
2302203

Instructors

- Assist. Prof. Dr. Thanit Praneenararat - **Coordinator**
- Assist. Prof. Dr. Panuwat Padungros
- Dr. Nawaporn Vinayavekhin

Groups

- There are **three groups** (for the purpose of briefing from each instructor). Check your assigned group in my email, which will be sent out before week 1. For those who don't see your name in the email (or don't receive any email), check it out again or talk to the instructors on your first day.
- You will perform each experiment **individually** – no group work unless stated specifically in some experiments.

Lab time & Location

- 14th floor at MHMK building
- 1-4 PM on Thursday

Lab instructions

- Available for download in the Blackboard system. **Please notify me during the first few weeks if you don't see this course in your login. This can happen especially if you register late.

Safety Regulations

- All students are required to STRICTLY follow the safety rules.
- Failure to do so will result in significant performance score deduction. **In the case that the issue can't be fixed immediately, you will not be allowed to continue the experiments.**
- ****Basic requirements: Goggles, lab coats, and closed-toe shoes.**
- Gloves will be available in the lab. This is optional.
- No drinking and eating in the laboratory. Any beverage or food must be placed outside the lab.

Score Layout

- Weekly Scores (80%)

Activity	Score (points)
Quizzes	10
Pre-lab preparation	5
Pre-lab attendance	10
Performance	40
- Technique	15
- Result	15
- Time	10
Report	15

- Final Examination (20%) – there is no paper exam in this course.

Quizzes

There will be quizzes for the first 10 min (1-1.10 PM). **No time extension if you are late.** The quizzes will cover everything related to the upcoming experiments (such as theory or technical aspect).

Pre-lab preparation

- To test whether you have actually prepared yourself before coming to the lab.
- It should be a 1-2 page document, *e.g.*, a flowchart, stating briefly about how to conduct the experiment.
- You have to submit this right away before the instructor begins briefing. **Late submission will not be accepted.**

Pre-lab attendance

- The instructors will summarize what to do each week after the quiz session. You are required to be present throughout this period.

Lab Report

- There will be lab report forms to be distributed each week. This will contain required information to be filled in by you.
- Objective – What is(are) the purpose(s) of the experiment today?
- Discussion – should be where you will discuss about your past experiment.

Examples of points to be discussed

- Did the experiment proceed as planned?
- What were mistakes or errors that you can account for? How can you solve them?
- What else were different from theories? How can you explain them based on chemical knowledge?
- Conclusion – should be a concise single or two sentences summarizing everything.
- **Reports must be submitted on the next day (Friday – before 4 pm).**
- You can pick up your report on the next lab session.

Make-up Session

There is no make-up session during this course. Any reasonable excuse (must submit a letter to state your reason beforehand) will result in **proration** of scores. You will be given zero score for absence with no prior notification or acceptable reasons.

Attendance

- 80% attendance is required for this course (2 weeks). Missing more than 2 experiments without any acceptable letter will result in an “M” grade.

Academic misconduct

- Any academic misconduct of any form will not be tolerated.

Course calendar

Week	Date	Experiment
1	18 Jan	Melting Points
2	1 Feb	Purification by recrystallization
3	8 Feb	Separation by solvent extraction
4	15 Feb	Chromatography
5	22 Feb	Isolation of caffeine from tea leaves
6	15 Mar	Simple and fractional distillation
7	22 Mar	Isolation of clove oil by steam distillation
8	29 Mar	Synthesis of isopentyl acetate
9	5 Apr	Nitration of methyl benzoate
10	12 Apr	Synthesis of dibenzalacetone
11	19 Apr	Synthesis of Sudan I
Exam	26 Apr	<i>To be announced</i>

** Holidays and Instructors' unavailability have been taken into account – That's why we skip some dates.

First Week Business

On the first day (18 Jan 2018), please arrive the lab **at 12.30 pm** to go through a check-in process. This is basically to check a list of glassware that you will be using for the whole course and claim any missing or broken glassware. If you do not do this, you will need to be **responsible to those missing or broken items at the end of the semester.**

If anyone cannot make it at 12.30 pm, you can do so after the class on that day, but not later.