

授課教師：高夢瑤

Instructor: Mengyao Gao

課程名稱：化工實務

Course Title : Field work

2026/5/6

課程代號： CH4819301 Course Code 學分數： 2 Credits	必選修：必修/半學年 Required/Elective: Required/Half Yr. 先修課程： Prerequisites
節次教室： T6(IB-508) T7(IB-508) Time/Location	
專業核心能力： Core Professional Competencies <ol style="list-style-type: none"> <li>1. 須具備三年的化工基礎訓練</li> <li>2. 實務學習經驗，培養同學實作能力</li> <li>3. 團隊合作之能力</li> <li>4. 溝通與表達: 定期口頭與書面報告</li> </ol> <ol style="list-style-type: none"> <li>1. Trained at least 3 years from Chemical Engineering</li> <li>2. Practical work and hands on skills</li> <li>3. Team player</li> <li>4. Communication in both oral presentation and writing reports</li> </ol>	
課程網址： NONE. Course Website	
課程宗旨： Course Objectives <p>This lecture is designed to provide practical training for senior students who have completed three years of foundational coursework in chemical engineering. Students will develop hands-on skills and receive professional training through placements in companies, factories, or laboratories across various chemical engineering - related industries. In addition, strong emphasis will be placed on teamwork and professional communication skills, both oral and written. Student performance will be evaluated through oral presentations and written reports.</p>	
課程大綱： Outline of Lectures	

2026 Field Work Schedule

1. Company: Taiwan Semiconductor Manufacturing Company 台灣積體電路製造公司

Date Time Course / Section Person in Charge  
March 17, 2026 12:20 - 14:30 搭遊覽車去新竹  
Going to Hsinchu  
14:30 - 14:50 公司介紹  
Introduction of company  
15:00 - 15:50 實地考察及說明  
Site Visit and Explanation  
16:00 - 16:50 總結/結束  
Conclusion / Closing  
17:00 - 19:00 搭遊覽車回台北  
Back to Taipei

2. Company: Trade Wind Biotech 全瑩生技股份有限公司

Date Time Course / Section Person in Charge  
March 24, 2026 12:20 - 13:30 搭遊覽車去宜蘭  
Going to Yilan  
13:30 - 13:50 歡迎致辭&介紹短片  
Welcome Speech & Introduction Video Clip  
14:00 - 14:50 公司介紹  
Introduction of company  
15:00 - 15:50 實地考察及說明  
Site Visit and Explanation  
16:00 - 16:50 總結/結束  
Conclusion / Closing  
17:00 - 19:00 搭遊覽車回台北  
Back to Taipei

3. Company: Chungtai Resource Technology Corp. 中台資源科技股份有限公司  
一廠 (王經理分機: 505)

Date Time Course / Section Person in Charge  
April 28, 2026 12:20 - 13:30 搭遊覽車去桃園  
Going to Taoyuan  
13:30 - 13:50 歡迎致辭&介紹短片  
Welcome Speech & Introduction Video Clip  
14:00 - 14:50 公司介紹  
Introduction of company  
15:00 - 15:50 實地考察及說明  
Site Visit and Explanation  
16:00 - 16:50 總結/結束  
Conclusion / Closing  
17:00 - 19:00 搭遊覽車回台北  
Back to Taipei

4. Company: CHIEH AN Company Ltd. 潔安環保工程有限公司

Date Time Course / Section Person in Charge  
May 5, 2026 12:20 - 14:30 搭遊覽車去苗栗  
Going to Miaoli  
14:30 - 14:50 公司介紹  
Introduction of company  
15:00 - 15:50 實地考察及說明  
Site Visit and Explanation  
16:00 - 16:50 總結/結束  
Conclusion / Closing  
17:00 - 19:00 搭遊覽車回台北  
Back to Taipei

授課方式: 講授 Lecture: 20%  
Method of Instruction 分組討論 Group discussion: 40%  
案例研討 Case study: 40%  
操做練習 Practical exercises: 0%

講授 Lecture : NONE. %

教科書 : NONE.  
Textbooks

參考書目 : NONE.  
References

修課須知 : NONE.  
Notice

評量方式 : Industry/Fieldwork Performance (40%)  
Grading Evaluation by the on-site supervisor based on professionalism, technical competence, responsibility, and teamwork.

Written Technical Report (30%)  
A structured report documenting the background, methodology, problem analysis, and reflection on the practical experience.

Oral Presentation (20%)  
Formal presentation summarizing the field experience, technical insights, and learning outcomes.

Participation and Discussion (10%)  
Active engagement in scheduled discussions and peer feedback sessions.

備註說明 : To ensure students are adequately prepared for professional training in  
Notes industry or laboratory settings, the following prerequisites are required: 1. Academic Prerequisites: Completion of at least three years of core Chemical Engineering coursework, including: Transport Phenomena. Thermodynamics. Chemical Reaction Engineering. Unit Operations. Process Control (recommended).