

Heterocyclic Chemistry (雜環化學) CHEM53000

Syllabus

1. Introduction
2. Aromatic Heterocycles
3. Nonaromatic Heterocycles
4. Nomenclature
5. Three and Four-Membered Ring Systems
6. Five-Membered Ring Systems
7. Six-Membered Ring Systems
8. Seven-Membered Rings
9. Recent Advances in the Reaction of Metalated Aromatic Heterocycles with Carbonyl Compounds and Their Imino Derivatives
10. Recent Developments in Tröger's Base Chemistry

Textbook: T. L. Gilchrist, Heterocyclic Chemistry, Third Edition, **1997**, Longman.

References:

1. Gordon W. Gribble, Thomas L. Gilchrist, Progress in Heterocyclic Chemistry, **1999**, Pergamon.
2. T. L. Gilchrist, Heterocyclic Chemistry, **1989**, Longman.
3. T. Eicher, S. Hauptmann, The Chemistry of Heterocycles, **2003**, Wiley-VCH.

評量方式：

1. 期中考試 --- 50% (Reaction, Synthesis, Mechanism)
2. 期末考試 --- 50% (Reaction, Synthesis, Mechanism)