

10720LSMC634800
酵素結構與催化機制
Enzyme Structures and Mechanisms

教師：王雯靜

時間：星期二 9:00 am~12:00 am

地點：生科二館220室

第 週	Topics
1	Introduction
2	The organic chemistry of enzyme-catalyzed reactions
3	Amino acids and proteins
4	Introduction to Protein Structure
5	Serine proteinase
6	Nitrilase
7	Oxygenase
8	Kinase
9	Mid-term
10	Epimerase
11	Measurement and magnitude of individual rate constants (II)
12	Practical methods for kinetics and equilibria
13	Stereochemistry of enzymatic reactions
14	Therapeutic antibodies
15	Special topics on enzyme structure (I)
16	Special topics on enzyme structure (II)
17	Special topics on enzyme structure (III)
18	Final Examination

參考書本

1. Fersht, A. (1999). *Structure and Mechanism in Protein Science—A Guide to Enzyme catalysis and Protein Folding*. Freeman.
2. Silverman, R. B. (2000). *The Organic Chemistry of Enzyme-Catalyzed Reactions*. Academic Press.
3. Carl Branden & John Tooze (1999). *Introduction to Protein Structure* 2nd edition, Garland publishing Inc.