

Schedule for 2310520

MECHANISTIC ENZYMOLOGY (2 credits)

Second semester (2022)

Time: TU 08.00 - 10.00

Co-ordinator: Kittikhun (kittikhun.w@chula.ac.th)

Room: SCI10 519

Topic	Hrs.	Date	Instructor
1. Reviews on principle of enzyme catalysis	2	10-ม.ค.	Kittikhun
2. Mechanisms of enzyme catalysis - Fundamental and enzyme model - The involvement of coenzyme in enzyme-catalysed reactions - Approach on active site investigation - Enzyme engineering	9	17, 24, 31 Jan, 7, 14 Feb	Kittikhun
3. Bioenergetic in related to catalysis and kinetics 4. Enzyme kinetics - Kinetic of single-substrate enzyme-catalysed reactions - Enzyme inhibitions	4	21, 28 Feb	Karan
Mid-term examination สอบ 7 - 13 Mar 2023; 13 มี.ค. 2566 เวลา 8:30-11:30 น.			
5. Advanced enzyme kinetics - Kinetic of multi-substrate enzyme-catalysed reaction	8	14, 21, 28 Mar, 4 Apr	Karan
6. Non-protein enzymes	2	11 Apr	Alisa
7. Principles of enzyme assay - End-point method - Kinetic method - Immunoassay method	2	18 Apr	Alisa
Final examination สอบ 8 - 19 May 2023; 17 พ.ค. 2566 เวลา 8:30-11:30 น.			