

Schedule for 2310332 (ปี 3, 47 คน)			
BIOMOLECULES & INFORMATION PATHWAYS (3 credits)			
First semester (2024)			
Time: MO 9.00 - 11.00 Room: 521		Co-ordinator: Anchalee	
TH 9.00 - 10.00 Room: 521			
Topic	Hrs.	Date	Instructor
1. Weak forces	2	5-ส.ค.-24	Thanyada
2. Carbohydrates	3	8 Aug, 15 Aug 24 *นัดเพิ่ม 1 ชม.	Karan
2.1 Monosaccharides and disaccharides			
2.2 Polysaccharides			
2.3 Glycoconjugates			
2.4 Carbohydrate as Information molecules: The sugar code			
3. Lipid	3	19 , 22 Aug 24	Karan
3.1 Storage lipids			
3.2 Structural lipids in membranes			
3.3 Lipids as signals, cofactors and pigments			
3.4 Working with lipids			
4. The structure of protein	3	26, 29 Aug 24	Alisa
4.2 Secondary structure			
4.3 Tertiary and quaternary structure			
4.4 Protein denaturation and folding			
5. Protein function	3	2, 5 Sep 24	Alisa
5.1 Reversible binding of a protein to a ligand			
5.2 Complementary interactions between proteins and ligands			
5.3 Protein interactions modulated by chemical energy			
6. Enzymes			
6.1 The basics of enzymes	0.5	9 Sep 23 (0.5h)	Pawinee
6.2 How enzymes work	0.5	9 Sep 24 (0.5h)	Pawinee
6.3 Enzyme kinetics as an approach to understanding mechanism	2	9, 12 Sep 24	Pawinee
6.4 Examples of enzyme mechanisms	1	16 Sep, 24	Pawinee
6.5 Regulatory enzymes	1	16 Sep, 24	Pawinee
6.6 Enzyme applications	1	19 Sep, 24	Pawinee
Mid-term examination: สอบ 23 - 27 Sep 2024; 27 ก.ย. 2567 เวลา 13:00-16:00 น.			
7. Nucleic acids and information pathways			
7.1 Nucleic acids	2	30 Sept, 24	Anchalee
7.2 Gene and chromosomes	2*	7 Oct, 24 *-ขาด 1 ชม.	Anchalee
7.3 DNA metabolism (replication)	2	7, 10 Oct 24	Anchalee
7.4 RNA metabolism (transcription)	2	17, 21 Oct, 24	Anchalee

7.5	Protein metabolism (translation)	2	21, 24 Oct 24	Anchalee
7.6	Regulation of gene expression	4	28, 31 Oct, 4 Nov 24	Napol
7.7	DNA technology	3	4, 7, 11 Nov, 24	Napol
7.8	Protein technology	3	11, 14, 18 Nov 24	Napol
Final-term examination: สอบ 25 Nov - 9 Dec 2024; 29 พ.ย. 2567 เวลา 13:00-16:00 น.				