

Schedule for 2310332

BIOMOLECULES & INFORMATION PATHWAYS (3 credits)

First semester (2022)

Time: MO 9.00 - 11.00 Room: 521

TH 9.00 - 10.00 Room: 521

Co-ordinator: Anchalee

Topic	Hrs.	Date	Instructor
1. Weak forces	2	8-ส.ค.-21	Thanyada
2. Carbohydrates	3	11 Aug, 15 Aug 22	Alisa
2.1 Monosaccharides and disaccharides			
2.2 Polysaccharides			
2.3 Glycoconjugates			
2.4 Carbohydrate as Information molecules: The sugar code			
3. Lipid	3	18 Aug , 22 Aug 22	Alisa
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	25, 29 Aug 22	Alisa
4.1 Primary structure			
4.2 Secondary structure			
4.3 Tertiary and quaternary structure			
4.4 Protein denaturation and folding			
5. Protein function	3	1, 5 Sep 22	Alisa
5.1 Reversible binding of a protein to a ligand			
5.2 Complementary interactions between proteins and ligands			
6. Enzymes			
6.1 The basics of enzymes	0.5	8 Sep 22 (0.5h)	Pawinee
6.2 How enzymes work	0.5	8 Sep 22 (0.5h)	Pawinee
6.3 Enzyme kinetics as an approach to understanding mechanism	2	12-ก.ย.	Pawinee
6.4 Examples of enzyme mechanisms	1	15 Sep, 22	Pawinee
6.5 Regulatory enzymes	1	19 Sep, 22	Pawinee
6.6 Enzyme applications	1	19 Sep, 22	Pawinee
Mid-term examination: 3 - 7 Oct 2022; วันที่ 07-10-2022 เวลา 13:00 - 16:00 น.			
7. Nucleic acids and information pathways			
7.1 Nucleic acids	2	10 Oct, 22	Anchalee

7.2	Gene and chromosomes	2	17-ต.ค.-22	Anchalee
7.3	DNA metabolism (replication)	2	20 Oct 22 *นัดเพิ่ม 1 ชม.	Anchalee
7.4	RNA metabolism (transcription)	2	27, 31 Oct, 22	Anchalee
7.5	Protein metabolism (translation)	2	31 Oct, 3 Nov 22	Anchalee
7.6	Regulation of gene expression	4	3, 7 Nov 22 *นัดเพิ่ม 1 ชม.	Anchalee
7.7	DNA technology	3	14 Nov, 17 Nov 22	Anchalee
7.8	Protein technology	3	21, 24 Nov 22	Anchalee
Mid-term examination: 28 Nov - 13 Dec 2022; วันที่ 02-12-2022 เวลา 13:00 - 16:00 น.				