

Week	Lecture	Date	Content	HW Out	HW In
1	1	1/17	introduction to protein engineering		
	2	1/19	primary structure		
2	3	1/22	primary structure		
	4	1/24	secondary structure		
	5	1/26	secondary structure		
3	6	1/29	secondary structure	HW 1	
	7	1/31	motif		
	8	2/2	tertiary structure		
4	9	2/5	tertiary structure	HW 2	HW 1
	10	2/7	tertiary structure		
	11	2/9	quaternary structure		
5	12	2/12	protein core		HW 2
	13	2/14	protein core		
	14	2/16		Mid Term 1	
6	15	2/19	amino acid alphabet		
	16	2/21	thermophilic proteins		
	17	2/23	thermophilic proteins		
7	18	2/26	interface		
	19	2/28	interface		
	20	3/2	2nd, 3rd structure prediction	HW 3	
8	21	3/5	knowledge-based design		
	22	3/7	knowledge-based design		
	23	3/9	transmembrane protein		HW 3
9	24	3/19	forcefield		
	25	3/21	rotamer	HW 4	
	26	3/23	search algorithm		
10	27	3/26	computational protein design		
	28	3/28	computational protein design		
	29	3/30	TBA		HW 4
11	30	4/2	TBA		
	31	4/4	bioinformatics		
	32	4/6		Mid Term 2	
12	33	4/9	directed evolution		
	34	4/11	directed evolution		
	35	4/13	directed evolution		
13	36	4/16	protease		
	37	4/18	enzyme	HW #5	
	38	4/20	carbohydrate binding protein		
14	39	4/23	DNA binding protein		
	40	4/25	TBA		
	41	4/27	biomaterial		HW #5
15	42	4/30	modeling		