

## CHEM-C1300 - Fundamental Biosciences, 14.01.2021-14.04.2021

### Assessment –

- Exercise/demonstration assessment – **25%**
  - *Chromatography demonstration* – Attendance (5%) + MyCourses quiz (5%) by Viskari
  - *Gel run demonstration* – Attendance (5%) + MyCourses quiz (5%) – by Viskari
  - *Matlab exercise* - MyCourses quiz (5%) – by Eerikäinen
- Pearson quiz assessment – **25%** (by Bankar and Scheller) – after every teaching session. Assignment will always open immediately after a lecture (around 12:30 on Thursdays) and closes on next Tuesdays (around 16:00)
- Final exam based on teachings of Bankar – **25 %** (by Bankar) – *Structure not yet defined*
- Final exam based on teachings of Scheller – **25%** (by Scheller) – *Structure not yet defined*

### Schedule –

Date	Topic	Chapters in Book	Teacher
Thursday, 14 January, 10:15 » 12:00	Introduction and Protein Structure and Function	3	Bankar
Thursday, 21 January, 10:15 » 12:00	Introduction to carbohydrates + Lipids	5 + 6	Bankar
Thursday, 28 January, 10:15 » 12:00	Lipids Membranes and the first cells	6	Bankar
Thursday, 4 February, 10:15 » 12:00	Energy and Enzymes: Introduction to metabolism	8 (+7)	Bankar
Thursday, 11 February, 10:15 » 12:00	Cellular respiration and fermentation	9	Bankar
Monday, 15 February, 13:15 » 16:00	Enzyme kinetics exercise – Matlab	Lab	Eerikäinen
Thursday, 18 February, 10:15 » 12:00	Photosynthesis	10	Bankar
Monday, 1 March, 13:15 » 16:00	Demonstration – Chromatography	Lecture/lab	Viskari
Wednesday, 3 March, 13:15 » 16:00	Demonstration – Chromatography	Lecture/Lab	Viskari
Thursday, 4 March, 10:15 » 12:00	Nucleic Acid, RNA World DNA and gene repair	4+15	Scheller
Monday, 8 March, 13:00 » 16:00	Demonstration – Gel run	Lecture/Lab	Viskari
Monday, 10 March, 13:00 » 16:00	Demonstration – Gel run	Lecture/Lab	Viskari
Thursday, 11 March, 10:15 » 12:00	How genes work	16	Scheller
Thursday, 18 March, 10:15 » 12:00	Transcription RNA and Translation and Control of Gene expression in Bacteria	17+18	Scheller
Thursday, 25 March, 10:15 » 12:00	The molecular revolution: Biotechnology and beyond	20	Scheller
Thursday, 1 April, 10:15 » 12:00	Bacteria and Fungi*	26 + 29	Scheller
Thursday, 8 April, 10:15 » 12:00	Viruses*	33	Scheller
Wednesday, 14 April,	Examination		

\* Topics may change later by considering learning outcomes and another course overlap

**Please remember –**

1. Always keep your camera **ON** throughout online teaching session for better (personal) interaction
2. We will **NOT** share the lecture recordings in MyCourses due to ‘privacy policy’. However, you may contact individually to respective teacher and negotiate about recordings if you want any
3. Please be proactive in all teaching sessions and learn as much as possible from this course