Section of Biochemistry and Cell Biology  
Division of Life Science  
The Hong Kong University of Science and Technology

LIFS 2720  
Fall semester, 2016-2017  
Instructor: Dr. Helen Cheung  
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Course goals  
To provide hand-on experience in basic biochemical laboratory techniques

Learning Outcomes  
By the end of this course, you will be able to:

1. Realize what biochemistry is all about.  
2. Understand how biochemical knowledge can be derived from experiments.  
3. Acknowledge the background aims and principles of designated experiments  
4. Expose to basic mechanistic functions of common biochemical equipments.  
5. Recognize the potential application(s) of various common biochemical equipments.

Course description  
The course is designed to enable students to acquire strong practical skills in biochemical techniques commonly used in the field of biochemistry. It is designed to introduce students to the underlying principles of essential biochemical techniques that have remained indispensible in experimental biochemistry.

Teaching approach  
This course is delivered through practical sessions.

Assessment scheme  
Laboratory Logbook and Practical Performance: 10%  
Worksheets: 20%  
Lab Report: 20%  
Final Examination: 50%
Class outline

15-09-2016  Introduction (To be held in Room 4160)
22-09-2016  Acidity and Alkalinity
29-09-2016  Ion exchange and thin layer chromatography
06-10-2016  Gel filtration chromatography
13-10-2016  Electrophoresis
20-10-2016  Enzyme kinetics
27-10-2016  Centrifugation
03-10-2016  DNA melting curve
10-10-2016  Metabolic syndrome I
17-10-2016  Metabolic syndrome II

Reference books

No standard textbook required.