

اسم و رمز المقرر باللغة العربية: الكيمياء الحيوية 1 ئيس 117

Biochemistry 1 CCH 117

اسم و رمز المقرر باللغة الإنجليزية:

Credit hours/ week: 3 hours

Course Description: the course explains biochemistry and functions of carbohydrates, proteins and lipids.

Course Objective:

1. The course provides the student with basic knowledge and information in biochemistry.

Course Contents:

Introduction to biochemistry, basic knowledge about water and electrolytes, carbohydrates, proteins and lipids (classification, structure and function) and basic structure of nucleic acids.

Course Outcomes:

By the end of this course the student should be able to:

1. Discuss the importance of biochemistry and its relation with the other life sciences.
2. Know the distribution and function of water and electrolyte in the body.
3. Understand the structure and function of carbohydrates, proteins and lipids.

Teaching Methods:

1. Lectures.
2. Practical lessons
3. Seminars

Course Assessment:

1. Practical performance
2. Tests and assignments
3. Final examination (written and practical)

References:

1. Bishop M. L., Fody E. P. and Schoeff L. E. (2010). Clinical Chemistry: Principles, Procedures and Correlation. 6th edition. Lippincott.
2. Murray R. K., Bender D. A. and Bothman K. M. (2009). Harper's Illustrated Biochemistry. 28th edition. Lange.
3. Burtis C. A., Ashwood E. R. and Bruns D. E. (2008). Fundamentals of Clinical Chemistry. 6th edition. Saunders.
4. Wilson D. D. (2008). Manual of Laboratory and Diagnostic Tests. 1st edition. McGraw- Hill.
5. Marshall W. J. and Bangert S. K. (2005). Clinical Chemistry. 5th edition.

6. Parful B.G. and Darshan P. G. (2004). Textbook of Medical Laboratory Technology. 6th edition. India.
7. Baynnes J. and Domniczak H. (1999). Medical Biochemistry. International edition. Mosby.
8. Philip D. M., Zilva F. and Mayne P. (1998). Clinical Chemistry in Diagnosis and Treatment. 6th edition.
9. Anderson S. and Cockayne S. (1993). Clinical Chemistry Concepts and Applications. International edition. Saunders.