

MU'TAH UNIVERSITY  
DEPARTMENT OF CHEMISTRY  
**INORGANIC BIOCHEMISTRY CHEM.723**  
SPRING SEMESTER 2017/2018

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**Instructor:**            **Professor Dr. Hanan Qaseer**

**Text Book:**            J. A. Cowan "Inorganic Biochemistry" 2/e, 1997.

**References:**

1. Atkins, P. et al. (SHRIVER & ATKINS), Inorganic Chemistry 4<sup>th</sup> / e, 2006.
2. Vote, D., Vote, J., & C. Pratt, Biochemistry, 3<sup>rd</sup>/e, 2008..
3. Stryer, L. "Biochemistry" 4<sup>th</sup>/ e., 1995.
4. Hay, R. W.. "Bio-inorganic Chemistry" 1991.
5. Additional references will be provided during the lectures.

**Syllabus**

Chapter #	Title from the Text book
1	Fundamentals of Inorganic Biochemistry.
2	Experimental Methods.
3	Transport and Storage.
4	Metalloproteins and Metalloenzymes: (1) Oxygen Carriers and Hydrolases.
5	Metalloproteins and Metalloenzymes: (2) Redox Chemistry.
6	Alkali and Alkaline Earth Metals.
7	Metals in the Regulation of Biochemical Events.
8	Cell Toxicity and Chemotherapeutics.
9	Metal Complexes as Probes of Structure and Reactivity.
10	Case Studies



GOOD LUCK