

## Blood Bank Course Syllabus (Cr. Hrs: 2)

University of Jordan  
Dept. Biol. & Biomed. Sciences  
Blood Bank 0304369

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### Course Description

1. You will acquire the theory and practice needed to perform basic techniques to detect antigen-antibody reactions. You will also learn how to perform ABO forward and reverse grouping, Rh grouping and the antiglobulin test (direct and indirect).
2. Your studies will focus on the theory of other blood group systems and procedures used to detect and identify antigens and antibodies. You will learn how to help diagnose, treat and prevent hemolytic disease in newborns. Diagnosing and treating immune hemolytic anemias will also be covered.
3. You will acquire the theory and practice needed to provide and issue compatible products for transfusions and the investigating of adverse effects of transfusions.

### Course Competency

Upon successful completion of this course the student will be able to:

- Perform basic techniques to detect antigen-antibody reactions in the Blood Bank Laboratory
- Detect and identify ABH antigens and antibodies and to recognize and resolve result discrepancies/anomalies
- Detect and identify Rh antigens and antibodies using the antiglobulin test when required and to recognize and resolve result discrepancies.
- detect and identify antigens and antibodies in other blood group systems and to state the characteristic clinical significance of antibodies.
- aid in the diagnosis, treatment and prevention of hemolytic disease of the newborn, and to aid in the diagnosis and treatment of other immune hemolytic anemias.
- assess the suitability of blood products for infusion and to prepare and issue products for infusion.
- apply theory of blood groups to provide compatible products for transfusion.
- recognize, investigate and follow-up adverse effects of transfusion.

