

## **Clinical Laboratory Science 445: Immunoematology**

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### **Course Description:**

**CLS 445. Immunoematology.** (3 cr.) - Study of human blood group systems, antibody screening and identification, blood components, compatibility testing, donor selection and processing, blood bank regulations; perform blood bank procedures. 2 hrs lecture, 3 hrs lab per week. Prereq: Biology 385

### **Format:**

Thirty hours of lecture; thirty hours of lab.

### **Course Goals and Purposes:**

#### ***Students will:***

1. Acquire fundamental knowledge of transfusion medicine.
2. Apply basic concepts to routine immunoematology laboratory procedures.
3. Interpret laboratory results to determine blood types, compatibility, atypical antibodies, and parentage.
4. Recognize and resolve discrepancies in laboratory results.
5. Understand the role of the laboratory in utilization of various blood components.
6. Follow approved protocol for collecting, preparing, storing, and administering blood components.
7. Outline safety and quality assurance practices as they relate to regulatory agencies and the well-being of patients and practitioners.

### **Grading System:**

- A - 90-100%
- B - 80-89%
- C - 70-79%
- D - 60-69%
- F - Less than 60%

**Exams:**

1. Hour exams (2)
2. Comprehensive final exam

**Derivation of Course Grades:**

Quizzes = 15%

Hour Exams = 30%

Laboratory Exercises = 35%

Final Examination = 20%

**Required Texts:**

Modern Blood Banking and Transfusion Practices. 6<sup>th</sup> Edition, 2012.  
D. M. Harmening

**Reference Texts:**

Standards for Blood Banks and Transfusion Services, 29<sup>th</sup> Edition, 2014. American Association of Blood Banks.

Technical Manual, 18<sup>th</sup> Edition, 2014. American Association of Blood Banks.

**Laboratory Exercises:**

Immunohematology Laboratory Exercises. D. Barten, J. Bulgrin, S. Raab, M. Shulfer