

**MEDICAL TECHNOLOGY 402 IMMUNOHEMATOLOGY**  
**Section 001 – Summer 2023**

**INSTRUCTOR:** Mallory Janquart,  
MS,MLS(ASCP)<sup>CM</sup>  
Director, Medical Laboratory Science Program  
**OFFICE:** Halsey Science Center - Room 127  
**OFFICE HOURS:** By appointment only  
**PHONE:** 424-1487

**CLASS:** Medical Technology Lab HS 28  
**TIME:** M-F 8:30am-12:30pm  
**CREDITS:** 1

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**Required Textbook:** Modern Blood Banking and Transfusion Practices, Sixth Edition,  
Harmening

**Course Description:** An introduction to the theoretical and practical aspects of blood transfusion practices. Prerequisite: Clinical Internship Status. (.5+1)

**Course Objectives:**

- Students will be able to perform basic immunohematology procedures.
- Students will be able to interpret and troubleshoot immunohematology results.
- Students will be able to interpret and correlate the clinical significance of immunohematology tests.

**Grading Policy**

|                   |                            |
|-------------------|----------------------------|
| Written Exam      | 200 points                 |
| Practical Exam    | 50 points                  |
| Quizzes           | 80 points (10 points each) |
| Laboratory Safety | 50 points                  |

|    |   |        |
|----|---|--------|
| A  | = | 100-94 |
| A- | = | 93-90  |
| B+ | = | 89-87  |
| B  | = | 86-83  |
| B- | = | 82-80  |
| C+ | = | 79-77  |
| C  | = | 76-74  |
| C- | = | 73-70  |
| D+ | = | 69-67  |
| D  | = | 66-64  |
| D- | = | 63-60  |
| F  | = | <60    |

\*\*Attendance is mandatory, habitual tardiness is not acceptable; - 5 points for each unexcused absence.

## TOPICAL OUTLINE

|        | <u>DATE</u> | <u>LECTURE TOPIC</u>  | <u>CHAPTER</u>     |
|--------|-------------|---|--------------------|
| Day 1  | June 26     | The ABO Blood Group System<br>HIV Video & Discuss Group Presentations<br>The ABO Blood Group System | 6                  |
| Day 2  | June 27     | The Lewis System<br>The Rh Blood Group System   | 8<br>7             |
| Day 3  | June 28     | The Rh Blood Group System<br>The Antiglobulin Test  | 7<br>5 and 19      |
| Day 4  | June 29     | The Antiglobulin Test<br>Other Major Blood Group Systems  | 5 and 19<br>8      |
| Day 5  | June 30     | Other Major Blood Group Systems   | 8                  |
| Day 6  | July 5      | Compatibility Testing<br>Detection and Identification of<br>Alloantibodies                          | 9 and 10           |
| Day 7  | July 6      | The HLA System  | 21                 |
| Day 8  | July 7      | Tour- Community Blood Center, Appleton  | [9:00 am leave UWO |
| Day 9  | July 10     | Transfusion Therapy<br>The Hazards of Transfusion<br>Gel Demonstration                              | 15<br>16 and 18    |
| Day 10 | July 11     | <b>FINAL EXAM</b>   |                    |

|       | <u>DATE</u> | <u>LABORATORY TOPIC</u>                                 |
|-------|-------------|---|
| Day 1 | June 26     | HIV Precaution Review/Introduce Blood Bank Work Station |
| Day 2 | June 27     | Prep of 3% RBC Suspension                               |
| Day 3 | June 28     | Blood Grouping/Segments                                 |
| Day 4 | June 29     | Back Typing<br>Rh Typing<br>Antiglobulin Testing        |
| Day 5 | June 30     | Secretary Status/Phlebotomy                             |
| Day 6 | July 5      | Crossmatching   |
| Day 7 | July 6      | Identification of Alloantibodies                        |
| Day 8 | July 10     | Review<br><b>PRACTICAL EXAM</b>                         |

## NOTIFICATIONS:

### DISABILITY SERVICES

The University of Wisconsin Oshkosh is committed to providing reasonable accommodation for students with disabilities. Please contact the Disability Services [Dean of Students Office, 125 Dempsey Hall, 424-3100 (Voice), 424-1319 (TTY)] for the University's accommodation request form or visit their website at <https://www.uwosh.edu/deanofstudents/Accessibility-Center>. Information related to an individual's accommodation request or other arrangements will be confidential and will be shared with relevant University personnel or offices on a "need to know" basis.

### ACADEMIC INTEGRITY

The University of Wisconsin Oshkosh is committed to a standard of academic integrity for all students. The system guidelines state: "Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others' academic endeavors." (UWS 14.01, Wisconsin Administrative Code)

Students are subject to disciplinary action for academic misconduct, which is defined in UWS 14.03, Wisconsin Administrative Code. Students on the UW Oshkosh campus have been suspended from the University for academic misconduct.

Students are encouraged to review the procedures related to violations of academic honesty as outlined in Chapter UWS 14, Wisconsin Administrative Code. Chapter UWS 14 can be found on the Dean of Students website at <http://www.uwosh.edu/deanofstudents/university-polices-procedures>.

Specific questions regarding the provisions in Chapter UWS 14 (and institutional procedures approved to implement Chapter UWS 14) should be directed to the Dean of Students Office.

Students are advised to see the following URL for disclosures about essential consumer protection items required by the Students Right to Know Act of 1990: <https://uwosh.edu/financialaid/consumer-information/>.

### ELECTRONIC DEVICES

The use of electronic devices (computers, cell phones, recorders, etc) during class, lab exercises, or exams must be individually approved by the course instructor.