

## CLS Clinical Courses - Syllabus

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### COURSE DESCRIPTIONS:

**CLS 406\* - Clinical Chemistry Practicum** (4 cr) - Apply principles of clinical chemistry; use chemical analytical techniques to determine specific substances and correlate results to various disease states. Prereq: CLS 405

**CLS 416\* - Clinical Hematology/Hemostasis Practicum** (4 cr) - Practical application of theoretical knowledge in hematology and hemostasis; process and analyze patient specimens; use instrumentation and microscopic techniques to determine anemias, leukemias, coagulation disorders, and other disease processes. Prereq: 415

**CLS 426\* - Diagnostic Medical Microbiology Practicum** (5 cr) - Cultivate, isolate, and identify pathogenic bacteria, fungi, viruses, and parasites from a variety of patient specimens; perform antibiotic sensitivities and therapeutic drug testing. Prereq: 425  
**\*Special Course fee applied for ASCLS Membership Renewal fee**

**CLS 436\* - Clinical Immunology Practicum** (2 cr) - Apply clinical immunologic techniques to identify antigen-antibody reactions and relate to disease states; explore principles and interpretation of HLA testing and flow cytometry. Prereq: 435.

**CLS 446\* - Clinical Immunohematology Practicum** (3 cr) - Concepts of blood banking; determine patient compatibility for blood and blood components; solve hemolytic disease and antibody identification problems; process blood and components; explore histocompatibility techniques. Prereq: 445

**CLS 476\* - Clinical Body Fluid Analysis** (1 cr) - Clinical study of body fluids including cerebral spinal fluid, synovial fluid, pleural fluid, seminal fluid, and urinalysis; discuss specimen analysis, diagnostic procedures, and test results as related to disease. Prereq: 365

**CLS 486 – Management and Laboratory Information Systems** (2 cr) – Management theory and application of management techniques to laboratory situations; fundamentals of laboratory information systems.

### PREREQUISITES:

Listed with the description of each course above.

### REQUIRED TEXTS:

On D21, see “Texts and Review Materials” under the heading “Clinical Practicum: General Information.”

### CORE ABILITIES:

- Communicate Effectively ~verbally & in writing

- Think Critically
- Exercise Problem-Solving Skills
- Work Collaboratively in Diverse Teams
- Respect Cultural Diversity & Pluralism

**LEARNING OUTCOMES/COURSE GOALS:**

At the end of the clinical experience, students will demonstrate:

- 1) Ethical, moral, and professional behaviors.
- 2) Ability to work as a member of the laboratory team.
- 3) Entry-level competencies in each of the major subdisciplines.
- 4) Appropriate communication skills in the health care setting.

**COURSE OBJECTIVES:**

Competencies in the form of Cognitive, Psychomotor, and Affective Objectives are provided with each clinical course.

**FORMAT:**

This is a practical experience. Rotation schedules are provided specific for your hospital laboratory.

**EVALUATIONS (complete lists in D2L for each course):**

**Weekly Evaluations:** Your performance will be deemed satisfactory or unsatisfactory.

Comments will always be included if the assessment is unsatisfactory. The purpose of these evaluations is to provide consistent feedback and to address any problems/issues immediately.

**Psychomotor Evaluations:** Your performance on the bench is evaluated with this assessment. This is completed at the end of each rotation.

**Affective Objectives:** This is the final evaluation at the end of each rotation and assesses professionalism, attitudes, values, work ethic, relationships in the work place, and other behaviors.

**Online Quizzes:** Online quizzes accompany the practical experience and must be completed as you go through the corresponding rotation.

**REQUIRED PROFESSIONAL ACTIVITIES:** As a professional, continuing education and membership in the professional organization are essential. It is highly recommended that you become a student member of the American Society for Clinical Laboratory Science (ASCLS).

**ASCLS State Laboratory Convention:** Attendance Required

**Student Bowl Participation:** The competition is an opportunity for you to study as a group and compete for the State Student Bowl Champion title. While this is an educational event, it is also fun because you will be with team members from other affiliated hospitals. You have an opportunity to learn from the diversity of experiences. Faculty and students collaboratively create the teams prior to your clinical experience.

**Student Presentation Day:** As part of the required capstone project, you will present a case study, a literature review, or a research project. You will also prepare a poster to display and present your project on “Student Presentation Day.” The poster is also presented at the ASCLS-WI State Laboratory Convention. Details are provided to you prior to your clinical experience and can also be found in D2L under CLS 499

### **POLICIES FOR CLINICAL PRACTICUM:**

- ***Students are expected to be professional in every aspect of their clinical experience.***
- ***Students will follow all policies and procedures for the institution at which the clinical practicum is completed. Failure to follow these policies and procedures may result in dismissal from the program.***

### **ATTENDANCE POLICY:**

Students will spend eight hours each day (Monday through Friday) in laboratory rotations. A schedule for the rotations will be provided. Thanksgiving, the Friday after Thanksgiving, a minimum of one week during the Christmas and New Year Holidays, and Good Friday will be considered as vacation days.

Students **must** call the education coordinator **prior** to any absence. Should absences exceed a total of five days for the laboratory rotation, students will be required to correspondingly lengthen their clinical experience to complete missed days in rotations.

Should an extended absence be necessary, the hospital program director **and** the university CLS department chair **must be notified as soon as possible**. The hospital program director and the university CLS department chair, in consultation with the student, will determine an alternate schedule to complete the clinical experience. However, if the absence **exceeds four weeks**, the students may need to **re-apply** for a clinical position the following year.

***Unexcused absences will result in dismissal from the Program.***

### **TARDINESS:**

The daily starting time will vary depending upon the laboratory departmental rotation. Students will be provided with a schedule of rotations and start times. Tardiness is unacceptable and if habitual (greater than five days during the clinical experience), can result in dismissal from the program.

### **DRESS CODE:**

Students must follow the dress code as outlined for each specific hospital laboratory.

### **CELL PHONE / ELECTRONIC COMMUNICATION:**

Personal cell phones/electronic communication devices must be turned off and stored during working hours and are not to be kept on person.

Use of personal cell phones/electronic communication devices is limited during work hours. Cell phones/electronic communication devices should be used only during lunch or break periods in a private space.

### **RESOURCES:**

1. The student may use the Medical Library at the hospital.
2. Computer access is available at the hospital.
3. UWSP library services are available.
4. Computers, tutorials, teaching microscopes, texts, journals, and other educational materials are available in D-122, the Resource Room for students.
5. Students may access the UWSP network and e-mail from off-campus.

### **SERVICE WORK:**

Service work is defined as work performed in the clinical laboratory as phlebotomists or laboratory assistants. Students may not serve as a substitute for regular staff during their clinical practicum. The clinical practicum is strictly an educational experience where students develop entry level skills in the practice of clinical laboratory science.

Students may perform service work only if the following criteria are met:

- a. Service work must be noncompulsory.
- b. Service work must be considered as a position of employment with you receiving appropriate compensation.
- c. Service work must be performed outside the hours required for the clinical practicum.
- d. You, as an employee, may be permitted to perform laboratory procedures if you have demonstrated competency.
- e. You, as an employee, must be supervised by qualified personnel.

### **ACADEMIC STANDARDS:**

Students are required to maintain a minimum grade point average of 2.50 during the Clinical Practicum. Each rotation must be completed with a minimum achievement level of 70% or a "C" grade. A rotation of less than 70% or a "C" level must be repeated. A student may repeat only one clinical rotation. If extenuating circumstances exist, contact the clinical Program Director and the Head of the SHCP-Clinical Laboratory Science Program.

All **clinical practicum** courses must be completed with a **grade of C or better**. If a grade of less than C is received, **this is reason for dismissal from the program**. If

these standards are not met, the student may petition the Program Director for consideration. **The minimum grade point average for graduation is 2.50.**

**DISMISSAL FROM THE PROGRAM:**

You may be terminated during the clinical practicum if:

- a. Conduct or health, as determined by the clinical facility, has a detrimental effect on patients, staff, or operations.
- b. There is a violation of policies and procedures of the Clinical Facility.
- c. Academic or laboratory performance falls below the C and/or satisfactory level.
- d. Attendance or punctuality requirements are not met.

**GRADING POLICY FOR CLINICAL PRACTICUM:**

Clinical course grades will be determined based on:

Weekly Assessment of Performance (5% of grade)  
Performance Objective Evaluation (30% of grade)  
Final Assessment of Section Rotation (30% of grade)  
Rotation Quizzes/Examinations (25% of grade)  
Final Rotation Examination (10% of grade)

The grading scale will be based on the following performance levels:

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

**The “Grade Appeal Process” is outlined in the UWSP catalog.**

**Should hospital faculty or students have questions or concerns, they may contact the SHCP (CLS Program) by phone (715-346-3766), e-mail, ([dbarten@uwsp.edu](mailto:dbarten@uwsp.edu) or [mshulfer@uwsp.edu](mailto:mshulfer@uwsp.edu) or [sjankows@uwsp.edu](mailto:sjankows@uwsp.edu)), or Fax (715-346-2640). Direct contact information is on page 1 of this document for Dawn Barten.**