

**CLS 365: BODY FLUID ANALYSIS
COURSE SYLLABUS**

Instructor: Beth Fojtik
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COURSE DESCRIPTION:

Body Fluid Analysis (CLS 365 – 2 credits)

Theoretical and practical aspects of chemical and microscopic analysis of urine, cerebrospinal fluid, synovial fluid, serous fluid and other miscellaneous body fluid.

FORMAT:

Tuesdays - Three hours lecture and 3 hours laboratory per week for four weeks.

Assignments, Readings, Quizzes, On-line training, Competencies

TEXTBOOK:

Fundamentals of Urine & Body Fluid Analysis, 4rd ed., Nancy A. Brunzel

GENERAL GOALS AND OBJECTIVES:

The student shall:

1. Recognize the critical importance of body fluid analysis
2. Identify chemical tests and reactions performed on various body fluids
3. Accurately perform basic urinalysis laboratory testing
4. Identify causes of false negative and false positive reactions
5. Differentiate normal from abnormal results
6. Recognize and explain the clinical significance of abnormal results
7. Develop an awareness of general record keeping and quality control
8. Demonstrate an adherence for laboratory maintenance, cleanliness, and safety while in the laboratory
9. Acquire an introduction to automated principles used in body fluid analysis
10. Correlate laboratory data and interpret as to disease/disorder

GRADING SYSTEM:

93 – 100	A	77 – 79	C+
90 – 92	A-	73 – 76	C
87 – 89	B+	70 – 72	C-
83 – 86	B	67 – 69	D+
80 – 82	B-	60 – 65	D
		Below 60	F

EXAMS AND ASSIGNMENTS:

1. Three Unit exams
2. MTS modules and quizzes (See note)
3. Final Written lecture exam (Comprehensive)
4. Laboratory performance and post lab quizzes
5. Final laboratory exam (Comprehensive)
6. Other assignments as given during course

All assignments are to be complete by the start of the class period or lab in which they are due. Any assignment not completed in full will result in a zero. It is the student's responsibility to complete all work as assigned. If work cannot be completed due to an extenuating circumstance, the student must obtain instructor consent to turn in work late **PRIOR** to the due date. There will be no exceptions to this policy.

If work is due on a date the student will be absent, excused or not, the work is still due at that time. It is the student's responsibility to have work turned in ahead of time or brought in a dropped off by somebody else. Please note – should somebody drop off work for the student, it is the student's responsibility to make sure the person dropping off the work gets it to the proper place ahead of when it is due

Assignments may be given or altered at the discretion of the instructor in the lecture periods. It is the student's responsibility to adhere to any assignment changes and complete any assigned work given during the lecture periods. If the student misses a class where an assignment is given or changed, the student is still responsible for this. It is the student's responsibility to get any of this information from your fellow classmates. The instructor is not responsible for communicating this information to students that miss lecture.

Medtraining Quizzes – You will be assigned medtraining modules throughout the class. You are to complete the readings and take the quizzes at the end of each module as specified by the instructor. You are to take the end of module quizzes until you reach 80% proficiency. Your grade for each quiz will be determined from the average of the first two attempts. Each module and quiz are to be completed by the date indicated by the instructor. Failure to complete the module and quizzes by this date will result in a zero for the assignment. These modules and quizzes are important in the overall understanding of each topic covered in the class and may be the only means in which to cover the assigned material. Please complete the readings and quizzes with integrity

DERIVATION OF COURSE GRADE:

1. Unit exams – 20%
2. Final Written Lecture comprehensive – 20%
3. Laboratory performance – 20%
4. Final laboratory exam – 20%
5. Written assignments / Attendance / Participation in class – 20%

ATTENDANCE POLICY

All students are required to attend all lectures and laboratory experiences. Attendance will be taken for each lecture and lab and is included in your overall grade for the class. If you need to miss your scheduled lab session, you may be allowed to attend an alternate section of the class with the instructor's permission **PRIOR** to the alternate section meeting time. Due to the nature of the unknowns given in the lab, there will be no make-up labs offered. Any lab or lecture not attended will result in a zero for that day's activities.

Exceptions to this policy will only be granted in the event of a death in the family, and absence due to illness. A health care provider note is required for the absence to be excused. Any other extenuating circumstance must be brought to the instructor's attention **PRIOR** to the absence. The instructor may or may not excuse the absence. If there is any doubt, it is the student's responsibility to meet with and discuss it with the instructor. Please note – do not assume the absence will be excused.

UNIVERSITY POLICIES

Academic Integrity

The board of regents, administrators, faculty, academic staff and students of the University of Wisconsin system believe that academic honesty and integrity are fundamental to the mission of higher education and of the University of Wisconsin system. The university has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. 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. Students who violate these standards must be confronted and must accept the consequences of their actions. (Excerpt from UWSP 14.01 STATEMENT OF PRINCIPLES)

Academic Accommodations

Support services are available for students with disabilities. Any student who has a disability and is in need of classroom and/or exam accommodations, please contact the instructor and the Office of Disability Services as soon as possible.

GENERAL COURSE OUTLINE

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| 1. | Introduction to body fluids/analysis | 5. | Cerebrospinal fluid |
| 2. | Kidney function | 6. | Other body fluids |
| 3. | Kidney disease | 7. | Fecal analysis |
| 4. | Metabolic diseases | 8. | Automated principles |
| | EXAM #1 | | EXAM #3 |
| 5. | Urinalysis | | FINAL EXAM |
| | Physical examination | | |
| | Chemical examination | | |
| | Microscopic examination | | |
| | Quality assurance/control | | |
| | Special tests | | |
| | EXAM #2 | | |

A course outline/calendar will be distributed to all students in class indicating dates, assignments, and exams scheduled for the course.