**CLS 425: MEDICAL MICROBIOLOGY**
**COURSE SYLLABUS**

Instructor: Kelly Michalski, MS, MLS(ASCP)CM
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Office Hours: Available by appointment. Please email instructor to request an appointment.

**COURSE DESCRIPTION:**
Diagnostic Medical Microbiology (CLS425 – 5 credits)
Lecture and laboratory will be in person and neither will be recorded.  However, due to the evolving COVID-19 pandemic, a shift to 100% online learning may occur. Please see course schedule posted to Canvas. The course is based in the principles and practices utilized in the isolation and identification of human pathogenic microorganisms and the relationship of these organisms to disease. Course schedule may be subject to change as the semester progresses.

**LEARNING OUTCOMES:**
The student will:
1. Develop a working knowledge of techniques and procedures commonly used in
the clinical microbiology laboratory.
2. Use appropriate safety protocol and laboratory techniques for processing
specimens.
3. Acquire knowledge of culture techniques appropriate for the primary culture
sites.
4. Recognize the expected “normal” flora for each culture site.
5. Understand the importance of Clinical Microbiology laboratory organism isolation and identification in diagnosing and monitoring diseases/conditions.
6. Associate selected infectious diseases with appropriate culture requirements and causative agents.
7. Understand the recommended process for identifying unknown pathogens.

**LIFELONG LEARNING**
It is imperative students understand the importance of becoming lifelong learners. Changes are taking place quite regularly within the world of microbiology including bacteriology, mycology, parasitology and virology. For example, microbes have undergone and will likely continue to undergo name changes. In addition, we are seeing increased resistance to antibiotics and other chemotherapeutic agents occurring. Antibiotics and other treatments that are effective today may not be effective in the near future, thus the need for referring to Clinical and Laboratory Standards Institute (CLSI) guidelines. Lectures may mention antibiotics that have been used to treat various infections that were at one time effective, but things change thus the need to consult CLSI guidelines. The way organisms are identified within many clinical laboratories has also undergone transformation with the advent of increasing technologies e.g. MALDI-TOF. Thus, information that is true today may not be tomorrow. Change is constant. It is therefore the student’s responsibility to become a lifelong learner and stay well informed of such changes. During your clinical practicums and throughout your career identification, susceptibility testing, etc., in the clinical lab will require you to follow institutional protocols, to refer to guidelines established by the Clinical and Laboratory Standards Institute (CLSI), and to become a lifelong learner. Materials presented in lecture and laboratory are not a substitute for hospital/clinical protocols, CLSI guidelines, professional expertise, etc.

**TEXTBOOK AND HELPFUL WEBSITES:**

**Students are required to complete all assigned text readings. Lectures provide an overview of materials which are to be supplemented with the text.**
- Bailey & Scott’s Diagnostic Microbiology 15th ed. by Tille, Patricia M.

**Reference texts:**

- Koneman, Allen et al, Color Atlas & Textbook of Diagnostic
Microbiology. 5th ed.

**COURSE ACTIVITIES/ASSIGNMENTS/EXAMS**
Safety is imperative. Students will be required to complete associated MTS safety training modules as assigned at the beginning of the course and sign any necessary safety forms.

Various assignments, quizzes/exams, special assignments, case studies,  etc. may be utilized over the course of the semester. Lecture exams will primarily cover objectives as outlined on Canvas covered via a combination of text readings, lectures, assignments, and/or discussions.

The final exam at the end of the course will be comprehensive .

**DERIVATION OF COURSE GRADE:**
Laboratory (Quizzes, assignments, special assignments, safety, etc.)                      30%
Lecture exams, quizzes, assignments                                                                          50%
Comprehensive Final Exam                                                                                         20%

**GRADING SCALE:**
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 – 66 D
                                       Below 60 F

**ATTENDANCE:**
It is the students’ responsibility to regularly participate and learn. Attendance to laboratories is mandatory. Given the nature of the laboratory, missed labs are not allowed to be made up.

Missed assignments are only excused with written documentation (doctor’s excuse, printed obituaries, coaches’ note for games, etc.). I expect to hear from you before the possibility of you missing an exam, quiz, or an assignment due date.

**UNIVERSITY POLICIES:**
**Academic Honesty & Misconduct**
Academic honesty is a core principle of learning and scholarship. When you violate this principle, you cheat yourself of the confidence that comes from knowing you have mastered the targeted skills and knowledge. You also hurt all members of the learning community by falsely presenting yourself as having command of competencies with which you are credited, thus degrading the credibility of the college, the program, and your fellow learners who hold the same credential.

All members of the learning community share an interest in protecting the value, integrity, and credibility of the outcomes of this learning experience. We also have the responsibility to censor behaviors that interfere with this effort. The following behaviors will be subject to disciplinary action:
Plagiarism - presenting someone else's words, ideas, or data as your own work.
Fabrication - using invented information, falsifying research or other findings.
Cheating - misleading others to believe you have mastered competencies or other learning outcomes that you have not mastered. Examples include, but are not limited to:
        1. Copying from another learner's work
        2. Allowing another learner to copy from your work
        3. Collaborating on an assessment (graded assignment or test) without permission from the instructor
        4. Taking a test for someone else or permitting someone else to take a test for you

Academic Misconduct - other academically dishonest acts such as tampering with grades, taking part in obtaining or distributing any part of an assessment, or selling or buying products such as papers, research, projects or other artifacts that document achievement of learning outcomes. Academic dishonesty is NOT ACCEPTABLE. UWSP subscribes to the definitions of academic dishonesty provided by the National Association of Student Personnel Administrators. Academic misconduct in the University of Wisconsin System is defined by UWS Chapter 14. The complete text of the chapter is available to you from the Dean of Students or you can visit https://www.uwsp.edu/dos/Documents/CommunityRights.pdf#page=11 for more information.

**ADA STATEMENT:**
In compliance with the Americans with Disabilities Act, students are encouraged to register with UWSP Disability and Assistive Technology Center (DACT) for assistance with accommodations. It is the student's responsibility to work with DATC to document permanent or temporary disability in order to determine eligibility and receive reasonable accommodations. The college cannot assume responsibility for providing accommodations or services to students who have not identified themselves as having a qualifying disability. Contact DACT at datctr@uwsp.edu, 715-346-3365, Room 609 Albertson Hall, 900 Reserve Street, Stevens Point, WI 54481.

**FACE COVERINGS:**

* At all UW-Stevens Point campus locations, the wearing of face coverings is mandatory in all buildings, including classrooms, laboratories, studios, and other instructional spaces. Any student with a condition that impacts their use of a face covering should contact the [Disability and Assistive Technology Center](https://www.uwsp.edu/datc/Pages/default.aspx) to discuss accommodations in classes. Please note that unless everyone is wearing a face covering, in-person classes cannot take place. This is university policy and not up to the discretion of individual instructors. Failure to adhere to this requirement could result in formal withdrawal from the course.

Other Guidance:

* Please monitor your own health each day using [this screening tool](https://www.uwsp.edu/C19DailyScreening). If you are not feeling well or believe you have been exposed to COVID-19, do not come to class; email your instructor and contact Student Health Service (715-346-4646).
	+ As with any type of absence, students are expected to communicate their need to be absent and complete the course requirements as outlined in the syllabus.
* Maintain a minimum of 6 feet of physical distance from others whenever possible.
* Do not congregate in groups before or after class; stagger your arrival and departure from the classroom, lab, or meeting room.
* Wash your hands or use appropriate hand sanitizer regularly and avoid touching your face.
* Please maintain these same healthy practices outside the classroom.

**COPYRIGHT INFORMATION:**

Lecture materials and recordings are protected intellectual property at UW-Stevens Point. Students in this course may use the materials and recordings for their personal use related to participation in this class. Students may also take notes solely for their personal use. If a lecture is not already recorded, you are not authorized to record my lectures without my permission unless you are considered by the university to be a qualified student with a disability requiring accommodation. [Regent Policy Document 4-1] Students may not copy or share lecture materials and recordings outside of class, including posting on internet sites or selling to commercial entities.  Students are also prohibited from providing or selling their personal notes to anyone else or being paid for taking notes by any person or commercial firm without the instructor’s express written permission. Unauthorized use of these copyrighted lecture materials and recordings constitutes copyright infringement and may be addressed under the university's policies, UWS Chapters 14 and 17, governing student academic and non-academic misconduct

***The instructor reserves the right to make changes to the syllabus, schedule, course content, assignments, etc. Any in-class announcements (verbal or written), announcement postings to the learning management system, or announcements via email are considered official addendums to this syllabus. It is the student’s responsibility to know what changes have been made. It is the student’s responsibility to check the learning management system and/or emails for course announcements.***