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

**Instructors:**        Kelly Michalski, M.S., MLS (ASCP)CM

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**Lecture Classroom:** D279

**Laboratory:** D123

**Office Hours:** By appointment

**COURSE DESCRIPTION:**  
**Diagnostic Medical Microbiology (CLS 425 – 5 credits)**  
Lecture and laboratory will be in person, and neither will be recorded. 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. Lecture 2.5 hours/week and laboratory 3 hours/week.

**LEARNING OUTCOMES:**  
Students will be able to:  
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.

**COURSE OBJECTIVES:**

Objectives are provided with each unit/module.

**FORMAT:**

As a means of enhancing your learning experience, this course may be organized into individual work and group work.  Throughout the semester, you will have the opportunity to work individually and in groups to complete assignments, work on activities, complete case studies, and review for exams. This process will provide more experience in critically analyzing laboratory data and correlating that data to disease processes.

**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 at the end of the course will be either a comprehensive exam or case studies.

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

* “Final Exam” Date: May 15th 2024, 8-10am, Room SCI D279

**GRADING SCALE:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Letter Grade** | **Percentage** | **Letter Grade** | **Percentage** |
| A | 93-100% | C+ | 77-79.9% |
| A- | 90-92.9% | C | 73-76.9% |
| B+ | 87-89.9% | C- | 70-72.9% |
| B | 83-86.9% | D+ | 67-69.9% |
| B- | 80-82.9% | D | 90-66.9% |
|  |  | F | 0-59.9% |

**ATTENDANCE:**

**Missed/late work (assignments, projects, exams, etc.) will receive a zero if not completed by the scheduled due dates or scheduled exam periods unless the student provides the instructor with a doctor’s note, coaches note, obituary, etc., as deemed appropriate by the instructor. *Students with proper documentation will be given no more than 72 hours, from the date of the document, to complete all missed work. Any extra time beyond 72 hours will need to be pre-arranged, with proper documentation, with Kelly. It should not be assumed that time beyond 72 hours will be granted.* It is the student’s responsibility to provide the instructor with the documentation and schedule make-up exams and /or submit late assignments, etc. within the 72-hour time-frame; failure to do so will result in a zero.**

I expect to hear from you **before** the possibility of you missing an exam, quiz, or an assignment due date. It is also your responsibility as the student to check with me if you missed **any work** due to an absence.

***Note: Having to work is not an acceptable reason for missing class and the absence* will be deemed unexcused, and result in a zero for any missed schoolwork.**

**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).

**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.

**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.

Other Guidance:

* 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.

**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 (CANVAS), 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 CANVAS or emails for course announcements.***