

Instructor: Lecture/Lab

Dr. Ewa Dworniczek (contact with students);

e-mail: ewa.dworniczek@umed.wroc.pl or each Tuesday, 10.00 p.m. – 11.00 p.m.,
lab # 204, Department of Microbiology, ul. Chałubińskiego 4.

Educational aims

Microbiology for Dentistry Students is intended to foster understanding of the fundamentals of bacteriology, virology, mycology, antimicrobial therapy and asepsis in dentistry.

The primary educational goal is to explore the relationship between the physiology of medically important microorganisms to the pathological sequelae of human-microbial interactions, with particular reference to the role of oral microbes in human disease.

Emphasis is placed on the study of oral ecology, dental caries, periodontal disease, viral and fungal infections of oral cavity. The lectures explain the role of the oral microflora. The laboratory sessions help students understand the microbiological concepts discussed in seminars and enable to understand the deductive processes necessary to identify the causative agents of diseases.

Students are familiarize with biological safety aspects and aseptic techniques, proper collection, transport and handling of specimens, understand basis of rational antibiotic therapy in order to control pathogenic microorganisms.

Students are also introduced to topics such as biofilm formation, quorum sensing, and biofilm-related infections.

Books

1. Essential Microbiology for Dentistry. Lakshman Samaranayake

Additional:

2. Medical Microbiology. P.R.Murray, K.S.Rosenthal
3. Human Virology: A Text for Students of Medicine, Dentistry, and Microbiology.
Leslie Collier, John S. Oxford

Examination / grading policy

A .Two unit (class) examinations. Students will be required to answer 10 questions from lab units and lectures (associated with class topics) in 10 minutes, according to syllabus and the teacher directions. This is a single choice exam (students recognize a correct answer among a set of options that include 3-4 wrong answers). Lecture

theory will be checked during class exams. The passing score is 60% of the positive answers.

B. Each student will be required to take an active part in seminars and prepare presentations on a given topic.

C. Final Examination will be accumulative and cover all material presented in the lecture, seminar and lab components of the course.

Satisfactory grades: 5.0 / 4.0 or 3.0.

Before the Final Examination all components of the labs must be passed satisfactory (min. 60%)

Attendance policy

Laboratory attendance is mandatory. During labs attendance checks will be made. You WILL NOT PASS the course if you miss more than 2 labs without a valid medical excuse. Arriving late (more than 15 minutes) or leaving early before the lab work is completed will be counted as an unexcused absence. Class will begin promptly at the designated time.

Examination conditions

Attendance for all exams is absolutely required. No make-up tests will be given unless the absence is explained by a signed physician's note indicating the reason for the absence or prior permission from the instructor has been obtained. The explanation must be provided within 1 week after the missed exam. Failure to meet these criteria will result in an unsatisfactory score (0%) for the missed tests. Missed class exam must be made up before the next class exam. If they are not, the student will receive 0% for the missed exam and **will not be allowed to write the next class exams.**

Students are expected to present professionalism and responsibility, to work well with partners and cooperate in class.