



**BIOL 2421  
Microbiology  
Fall 2011  
Syllabus – B. Israel**

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<b><u>COURSE TITLE</u></b>	Microbiology
<b><u>COURSE NUMBER</u></b>	BIOL 2421
<b><u>CREDITS</u></b>	4 sch
<b><u>MODALITY</u></b>	Web-enhanced
<b><u>START/END DATE</u></b>	August 22 – December 9, 2011

<b><u>INSTRUCTOR</u></b>	Bonnie Israel
<b><u>PHONE NUMBER</u></b>	432.335.6560
<b><u>EMAIL</u></b>	bisrael@odessa.edu

<b><u>OFFICE LOCATION</u></b>	Wilkerson Hall Room 106
<b><u>OFFICE HOURS</u></b>	Monday 11am-12pm; 4-5pm; 9-9:30pm Tuesday 4-5pm; 9-9:30pm Wednesday 11am-12pm; 4-5pm; 9-9:30pm Thursday 4-5pm; 9-9:30pm Friday 11am-1pm Or by appointment

**PRE-REQUISITES**

A minimum grade of "C" in BIOL 1406 and BIOL 1407; or BIOL 2401 and BIOL 2402; or CHEM 1311 and BIOL 1406 or BIOL 2401.

**REQUIRED TEXTS**

<b>Lecture</b>	Tortora, Funke, and Case. <u>Microbiology: An Introduction</u> . 10 <sup>th</sup> edition. Pearson Benjamin Cummings: 2010.
<b>Lab</b>	Leboffe and Pierce. <u>Microbiology: Laboratory Theory and Application</u> . 2 <sup>nd</sup> edition. Morton Publishing Company: 2006.

**COURSE FOCUS**

Students learn specific information and concepts in the classification, structure, cultivation and ecology of microorganisms. Students learn mathematical calculations of growth parameters and the effectiveness of chemotherapeutic agents. Students learn terminology, specific information and concepts of the relationships between microorganisms and human life. Cause and effect relationships between microbial growth and human disease, interpretation of symptomatic and laboratory information in diagnosis of disease, prevention of disease and treatment of disease are stressed. Lab fee required.

The instructor will use lectures, discussions, demonstrations, and experiments during lecture and lab to familiarize students with the topics discussed.

**COURSE OBJECTIVES**

1. Learn how microorganisms live and reproduce.
2. Learn the basic principles and techniques of genetic engineering.
3. Learn the principles and terminology of disease.
4. Learn how microorganisms cause disease.
5. Learn the basics and applications of immunology.
6. Learn the causes and treatments of communicable diseases of today.

## **SCANS**

1, 3, 6, 9

## **COURSE EVALUATION**

### Lecture

Exams – 5	500 points (100 points each)
Final Exam (comprehensive)	200 points
Individual Project/Paper	100 points

### Laboratory

Practical Exams – 4	200 points (50 points each)
Identification of Unknown Organism	100 points

## **GRADE DETERMINATION**

The lecture and laboratory performances are calculated to yield only one grade. The grade is calculated by adding the total number of points earned and dividing that number by the total number of points available (1100). This score will be multiplied by 100 to yield a percentage. This is the grade you will see on your “report card.”

## **GRADING SCALE**

90-100	A
80-89	B
70-79	C
60-69	D
Below 60	F

## **COURSE POLICIES**

1. Attendance Regular and punctual attendance is necessary for the successful completion of the course. While the instructor will neither credit nor deduct points to be computed toward the final grade based on attendance/absence, it will be a subjective factor taken into consideration should your standing at the end of the course be “border-line.”  
In case of absence, it is the student’s responsibility to contact the instructor. Students absent on official school business are entitled to make up school work missed. In all other cases, the instructor will judge whether or not the student will be permitted to make up work and will decide on the time and nature of the make-up. However, the student is responsible for work missed, regardless of the cause of the absence. The student must discuss such work with the instructor and should do so immediately upon returning to school. Communication between the student and instructor is most important, and it is the student’s responsibility to initiate such communication. If the student does not appear at the prearranged time for makeup work, he forfeits his right for further makeup of that work.
2. Tardiness Regular and punctual attendance is expected at Odessa College and is critical to academic success. In the rare event that a student is unavoidably detained, the student must discuss the reason for his tardiness with the instructor immediately following class. Students arriving late may be counted as absent from the class for that period.
3. Withdrawal If a student is unable to complete a course in which he is registered, it is the student’s responsibility to officially withdraw from the course prior to the appropriate date. Students are strongly encouraged to contact the instructor prior to withdrawing from the course, as knowledge of his class standing will allow the student to make an informed decision with regard to withdrawal. To withdraw from one or more courses at or prior to the withdrawal date of a semester or term, students must complete a withdrawal form in the Registrar’s office. Until a student is officially withdrawn by the registrar, the student *remains on the class roll and may receive a grade of F for the course.*

4. Classroom Etiquette

- While in the classroom, students should turn off all cell phones, iPods, headphones, etc.
- Cell phones are to be placed in a back-pack or purse (out of sight and mind).
- Texting is absolutely not allowed. The student will be given a verbal warning for the first violation. The second violation will result in a 10-point deduction from the next exam. Following the third violation, the student will not be allowed in class and be sent to administration for disciplinary action.
- Class participation and discussion is strongly encouraged. However, discussion should be courteous and not conducted when the instructor or fellow students are talking. Constant disruptions will result in removal from the classroom, and the student will need to meet with the instructor during office hours.
- Food and drinks are not allowed in the classrooms or laboratories (OC policy).
- Exam grades will not be released verbally or electronically until 24 hours have elapsed since the administration of the exam.
- Odessa College policy requires that student grievances first be discussed with the instructor. Unresolved issues may then be discussed with the instructor's immediate supervisor.

5. Exams            See Course Evaluation (above).

ACADEMIC DISHONESTY WILL NOT BE TOLERATED. Students caught cheating will be asked to leave the exam immediately, will receive a 0 for the exam, and will be subject to further disciplinary action. The submission of assignments that are not the student's original work (plagiarism) will be scored as a 0. Repeat offenses will result in removal from the course with a grade of "F".

**Lecture**        **Make-up exams will be administered at the discretion of the instructor and absolutely only in EXTREME circumstances. Any request must be accompanied by documentation confirming the reason for the absence. The student should contact the instructor prior to missing the exam when possible. If the instructor decides to provide a make-up exam, the exam may include oral questions and essays in addition to normal testing format. There will be no make-up for the final exam, and the final must be taken at the assigned time during finals week.**

**Lab**        **If it is known prior to a lab practical that it must be unavoidably missed, arrangements should be made to take the practical during another lab. Prior permission of all involved instructors must be obtained. Lab practicals must be taken during one of the regularly scheduled lab periods. NO EXCEPTIONS.**

**THERE WILL BE NO EXTRA CREDIT PROJECTS!**

6. Tutoring on Campus

- Assistance with course material is available to students in all science classes in the **Synapse Lab** (WH 117). Work areas for studying, professional tutoring, computers with Internet access and printers, molecular models, etc. are available on first-come basis.
- The **Learning Resource Center** (Library) provides research assistance via the LRC's catalog (print books, videos, e-books) and databases (journal and magazine articles). Research guides covering specific subject areas, tutorials, and the "Ask a Librarian" service provide additional help.

7. Special Needs            Odessa college complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have special needs or concerns pertaining to your access and participation in this or any other course at Odessa College, please do not hesitate to contact me. You may also call the Office of Disability Services at 432.335.6861 to request assistance and accommodations.

8. Student Email            Please access your Odessa College student email by following this link to set up or update your account: <https://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

9. Technical Support        For BlackBoard assistance, contact the Student Success Center at 432.335.6878 or online at [https://www.odessa.edu/dept/ssc/helpdesk\\_form.htm](https://www.odessa.edu/dept/ssc/helpdesk_form.htm).

10. Important School Policies Information regarding student support services, academic dishonesty, disciplinary actions, special accommodation, or students' and instructors' rights to academic freedom may be found in the Odessa College Student Handbook

**Students who habitually violate any of the above policies may be asked to withdraw from the course.**