



RANGER COLLEGE

COURSE SYLLABUS

Microbiology – Online

BIOL 2420

4 credit hours

INSTRUCTOR:

Gretchin Geye

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EMAIL: ggeye@rangercollege.edu
HOURS: Available by email/Google hangout 9AM-7PM

I. Texas Core Curriculum Statement of Purpose

Through the Texas Core Curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

II. Course Description

This course covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors. It provides an introduction to historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and acellular agents in the biosphere, and their roles in human and animal diseases. Major topics include bacterial structure as well as growth, physiology, genetics, and biochemistry of microorganisms. Emphasis is on medical microbiology, infectious diseases, and public health.

Credit 4 semester hours.

III. Required Background or Prerequisite

Recommended prerequisite: BIOL1407.

IV. Required Textbook and Course Materials

YOUR TEXT IS INCLUDED IN IncludeEd!!!! Do NOT purchase a book! If you are a DUAL CREDIT student you WILL have to purchase the eBook & Connect access!

Connect and LearnSmart Labs Access Card for Foundations in Microbiology

Edition: 11

Kathleen Park Talaro, PASADENA CITY COLLEGE

Barry Chess, PASADENA CITY COLLEGE

The required textbook package includes an eBook version of the textbook included in the Connect PLUS package. It comes as an access card/code.

For those of you who prefer a hard copy of the textbook, it is available in hard copy with Connect PLUS included as well at the college bookstore.

McGraw-Hill offers an upgrade to 'loose leaf' pages when you enter your access code for Connect PLUS at a very low rate. The bookstore may also have this option.

The easiest way to get access to the text is to go to the very first assignment “Get To Know Connect”, this will take you straight to the website where you will register and simply get started on the assignments! YOU DO NOT HAVE TO PURCHASE ACCESS!!

Required Lab Access: *You absolutely **MUST HAVE Connect PLUS WITH LABS** in order to complete your lab assignments for this course. The lab portion of the course is 25% of your grade.*

Microbiology for Non-Science Majors

Mrs. Gretchin Geye

Email: ggeye@rangercollege.edu

I check this multiple times a day, so I WILL get back to you ASAP.

Contact Info:

Please leave your name, the course you are enrolled in and the section number on all emails.

V. Course Purpose

Life Science courses focus on describing, explaining and predicting natural phenomena using the scientific method. Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on human experiences.

VI. Learning Outcomes

Upon successful completion of the course, students will have demonstrated proficiency in the following areas:

1. Main themes of microbiology
2. Chemistry of microbiology
3. Study methods and tools used in microbiology laboratories
4. Vital characteristics and diversity of viral, prokaryotic, and eukaryotic microbes
5. Microbial nutrition, ecology, growth
6. Microbial metabolism and genetics
7. Physical and chemical agents for microbial control
8. The effects of drugs on microbes and hosts
9. Microbe-Human interactions
10. Host defenses and immunity
11. Cocci and Bacilli of Medical Importance

VII. Core Objectives

This course meets the following of the six Core Objectives established by Texas:

- ☒ **Critical Thinking Skills (CT)** – Creative thinking, innovation, inquiry, and analysis; evaluation and synthesis of information
- ☒ **Communication Skills (COM)** – effective development, interpretation and expression of ideas through written, oral, and visual communication
- ☒ **Empirical and Quantitative Skills (EQS)** – The manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- ☒ **Teamwork (TW)** – The ability to consider different points of view and to work effectively with others to support a shared purpose or goal

- **Social Responsibility (SR)** – Intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities
- **Personal Responsibility (PR)** – The ability to connect choices, actions, and consequences to ethical decision-making

VIII. Methods of Instruction

Reading/lectures/notes

Online practice (Learn Smart/Smartbook)

Virtual LABS using Connect

Labs in which major biological principles will be demonstrated by examination of specimens, conducting experiments and viewing videos virtually.

Attendance Expectations and Policy: In this online class, attendance is expected. Because this is an asynchronous class with flexible activity time, there should be no reason to miss class. To be counted in attendance, students must log onto Blackboard a minimum of two days per week. Those wishing to achieve a higher score in the course will want to exceed that expectation.

Disability Accommodations: Ranger College seeks to provide reasonable accommodations for all qualified individuals with disabilities. This college will comply with all applicable federal, state and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required in order to provide an equal educational opportunity. It is the student's responsibility to contact the instructor in a timely manner to arrange appropriate accommodations. If you have a disability, including a specific learning disability, please notify the instructor to discuss possible accommodations needs, if so desired.

Plagiarism: Ranger College recognizes the seriousness of plagiarism, which is defined as turning in someone else's work and calling it your own. At Ranger College, plagiarism is treated as a dishonest action, an issue of dishonorable behavior. There are two types of plagiarism to beware of--intentional and unintentional plagiarism. Intentional plagiarism is an obvious type of cheating that includes turning in work that you are falsely presenting as your own. It may be work that was produced by a roommate, a spouse or material copied from the Internet. Copy and Paste is considered intentional plagiarism. Allowing another student to copy your work is another type of intentional plagiarism. Unintentional plagiarism will not be addressed for this course. Penalties for plagiarism, according to Ranger College's Violations of the Student Code of Conduct, can be severe. They may range from failure of an assignment to failure of a course, to referral to the Dean, to dismissal from a program of study. These actions are not meant to be

threatening, but to ensure that students understand that the school takes plagiarism seriously. The underlying message of the Ranger College plagiarism policy is that instructors are committed to encouraging students to use source material correctly.

GENERAL POLICIES AND PROCEDURES:

Major Course Requirements:

1. Do your own work! If you have someone else do your work for you, you will not be prepared for the exams. Study groups are encouraged. It sometimes helps to understand a topic when another person is there to dialog with. Copying another person's assignment is discouraged as you will fail to benefit from not doing your own work, and once again, it is considered intentional plagiarism. Sharing the responsibility is also discouraged. This means one person doing half the assignment and another doing the other half, then sharing answers (once again, plagiarism on both parties involved). If you are going to work together, work on the same question together and discuss any questions that arise along the process. Attempt to understand the material you are working on as you can be assured that you will likely see it again on exams and possibly a future board exam. *Be prepared, learn as you learn!*

2. All students are expected to turn in assignments by the due date. Any student who cannot turn in an assignment by the due date must communicate with the instructor *before* the due date, except in case of an emergency.

I DO NOT TAKE LATE WORK!

3. Make up assignments and tests are at the discretion of the instructor. I understand that unforeseen circumstances occur that inhibit completion of assignments by the due date, or interfere with test scheduling. It is the responsibility of the student to inform me when such circumstances arise.

4. There are 5 exams the course that include 3 chapters. Exams are taken from your personal computer (Exams 1, 2, 3, 4 & Final Exam). **FINAL EXAM IS PROCTORED!**

You must make sure you have a good connection before attempting exams, meaning you may have to take your computer to another location during the exam or go to the college library and use one of the computers at that location. [All exams must be taken in order to pass this course.](#)

The FINAL Exam MUST BE a proctored exam either at a Ranger College facility or with ProctorU. The FINAL Exam has a weight of 25%, so be sure that you prepare thoroughly!

6. If you are not doing well in the class and you think you might need to drop it, please contact me first. If you choose to drop, it is *your* responsibility to complete the necessary paper work and submit it to the registrar. Do not expect *me* to drop you or ask *me* to drop you. *You* must initiate the drop. If you don't initiate the drop and you are on my final roster, the only choices I have, as far as a final grade, is F and WF. If you want a W, you must do the paperwork and drop the class.
7. If no assignments are received and you do not respond to email messages, I will assign a grade of F as your final grade in the class. If you wish to avoid this showing up on your transcript, please drop the class as soon as you know you can't handle the required work.
8. I will give incomplete grades (I) under special circumstances only. Additionally, you must have completed 90% of all the assignments and the first three exams taken. Exceptions will be considered on an as needed basis and all incomplete grade rewards must be approved by the department head.
9. Should you or a family member become ill during the semester or if you are involved any event that might prevent you from completing your work on time; you need to let me know immediately. If you miss an exam or need to drop the course with a grade of incomplete because of this, you will need to supply documentation of the injury, accident, etc., in the form of a doctor's note or hospital admission/release forms.

Communications:

You must read the DISCUSSION BOARD each and every time you enter the course. ALL OF IT! I read every single comment and I want you to do the same. I prefer to not repeatedly answer the same question and communicating via the discussion board helps prevent this from occurring but only if each of you read all posts. Please do not post in multiple venues, or send me an email, text and post in two places. Since I read all posts, emails and text messages, I end up reading the same message 4 times. If you have urgent issues, remember that email message is the quickest way to reach me and is always acceptable as a means of contact. **ALWAYS CONTACT ME IF YOU HAVE AN ISSUE WITH AN EXAM** so I get the message right away.

Grades and Completing Assignments:

Graded items consist of 28 lab assignments

12 lecture assignments (Learn Smart Modules)

1 Get To Know Connect Quiz

3 Graded Discussions

4 section exams

1 Final Exam (comprehensive - Ch. 1, 3, 4, 5, 6, 7, 11, 12, 13, 14, 15)

Lecture assignments consist of completing the Learn Smart Assignments in McGraw Hill Connect and must be done to succeed in this course.

Lab assignments are done in Connect using Learn Smart Labs and must be done to succeed in this course.

The Final Exam must be taken at a proctored testing facility or via Proctor U - NO EXCEPTIONS. Proctor U allows you to take exams for a \$25 fee from your desired location utilizing an online proctor.

Exams cover three chapters each and the final IS comprehensive.

If you are a DIGITEX student, you need to contact glewis@rangercollege.edu in order to set up testing at your colleges testing facility.

All assignments will be due on the assigned due date that can be found in this syllabus.

Please communicate with your instructor if you have extenuating circumstances that you would like to have considered regarding the late policy. Exceptions to this policy are at the discretion of the instructor and will be made on an as needed basis.

Overall Grading Policy:

Students are graded primarily on the degree to which they meet learning outcomes, not just how much time and effort is put forth in the course.

Grade distribution will be as follows:

Learn Smart Assignments	10%	89.5%-100% = A
Discussion Boards	5%	79.5%-89.4% = B
Lab Assignments	25%	69.5%-79.4% = C
4 Unit Exams	30%	59.5%-69.4% = D
Final EXAM	25%	59.4% or < = F
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	100%	

Course Schedule and Assignment due dates:

The following are ACTUAL DUE DATES, they are NOT suggested due dates. Due dates are 'DUE BY DATES' so don't wait till the day they are due to start them or you may not have time to complete them by midnight. Many are lengthy and require several hours to complete. Waiting till a few hours before they are due is not advised.

VARIES BY SEMESTER

You may submit any and all assignments early, but I DO NOT ACCEPT LATE ASSIGNMENTS unless prior arrangements have been negotiated with the instructor.

Note to Students: The Instructor reserves the right to change the delivery of course content based upon the needs of the class.

XII. Non-Discrimination Statement

Admissions, employment, and program policies of Ranger College are nondiscriminatory in regard to race, creed, color, sex, age, disability, and national origin.

XIII. ADA Statement

Ranger College provides a variety of services for students with learning and/or physical disabilities. Students are responsible for making initial contact with the Ranger College Counselor, Gabe Lewis (glewis@rangercollege.edu). It is advisable to make this contact before or immediately after the semester begins.