

Microbiology Lecture Syllabus

Instructor: Dr. Andrew A. Thompson

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COURSE DESCRIPTION AND OBJECTIVES:

This is an intense course designed for students in health-related programs. Lecture and discussion periods will focus on understanding the structure and functions of microbial organisms with emphasis on their effects on human systems. You will be tested on application of your knowledge and problem solving skills.

PLEASE LOOK AT CF CATALOG FOR FURTHER DESCRIPTION AND PREREQUISITES.

ABOUT YOUR INSTRUCTOR:

By way of introduction, Dr. Andrew Thompson, is a retired chiropractor, after 27 years, 25 of which were here in Ocala, I retired from active practice as a chiropractic physician. I earned a BS degree from Michigan State University, an MS degree from Georgetown University, and a DC degree from Logan College. I have been teaching here at CF for the past 22 years, courses include A&P 1&2, and Microbiology. Any information I relay to you is for educational purposes only and should not be construed as Medical/Chiropractic Advice, please see your personal physician/health care provider for such.

INSTRUCTOR'S EXPECTATIONS OF STUDENTS:

All students are expected to have an active interest in the course and to participate in the presentation of each topic. The pace of this course is rapid; we will cover approximately 1-2 or more chapters a week in lecture sessions and each exam will cover several chapters. You must read and prepare ahead of time for each class period's topics. Because of the nature of the material and the thought processing required to understand topics covered in this course, **You may need to spend more time on this course than you have spent on any course taken before!** The instructor is a facilitator who will assist student learning; it is the responsibility of the student to actively seek understanding of the material.

ATTENDANCE POLICY:

Attendance is required see CF catalog for school attendance policy. Each student is required to attend class meetings; non-attendance does not constitute withdrawal from this course. It is the student's responsibility to complete the withdrawal forms by the appropriate dates. Absences due to documented illness (your illness not a family member's) may be excused however prolonged illness resulting in prolonged absences may make withdrawal from the course the only viable option. To receive an excused absence you must present a copy (that the instructor may keep) of an acceptable document (doctors note, court papers, etc.) on the next day of attendance. Regular and punctual attendance is the responsibility of the student, attendance will be taken, it is the student's responsibility to sign in on the attendance sheet during each class period, failure to do so will count as an absence (no points awarded). Missed work will get a grade of zero. Make-ups may be arranged if absence is due to a documented emergency (all make-ups must be handled promptly and all make-ups must be completed before the last day of classes, no make-ups will be given during Final Exam Week). (attendance accounts for about 1% of the Final Grade).

TEXT:

Course text: Microbiology, OpenStax (this is a free download - see the OpenStax website - <http://openstaxcollege.org>) ISBN: 9781938168147

other supplies:

Scantron sheets (and number 2 pencil)

CELL PHONE POLICY

To avoid disruption in the classroom cell phones should be either turned-off or on a vibrate-only mode during lecture or tests and cell phones are not allowed in hand or on the desktops during tests (no technology - tablets, lap-tops, cell phones, smart watches, smart-glasses, etc., allowed during in class tests/exams). Students should leave the room to make or receive calls (in other words - go out in the hall to answer or make a call).

TECHNOLOGY REQUIREMENTS:

This course uses a web-assisted format, some assignments will be on-line (on canvas, the college's course management system), specifically Quizzes and Case Studies. So computer access will be necessary computers are available in the Learning Resources Center (Library).

COURSE GRADE:

The course is based on a total of 500 points.

The course grade and will consist of Tests, Quizzes, Clinical Case Studies, attendance, and a Final Exam. The total points possible = 500, and the Final Exam will be Comprehensive (Cumulative)!

Tests 1-5 are worth 50 points each, and the Final Exam is worth 100 points.

Quizzes 1-5 are worth 20 points each, and the case studies (3) are worth 15 points each.

Participation/attendance is worth 5 points.

HOW TESTS AND CLASSWORK GET EVALUATED:

tests/exams & quizzes - by percentage of correct answers, clinical case studies - by quality, content, and accuracy. Late assignments are subject to a 10% deduction per day late and may receive a grade of zero if turned in after the graded papers have been returned to the class (generally the next meeting after due date).

It is the student's responsibility to complete all work by the assigned due dates and times.

Extra credit - With the exception of the occasional optional in class assignments, NONE! Any extra time you may have should be spent in further study to understand the concepts you are having difficulty understanding.

GRADING SCALE:

A = 90-100% (cut-off 447.5 points)

B+ = 87-89 (cut-off 432.5 points)

B = 80-86 (cut-off 397.5 points)

C+ = 77-79 (cut-off 382.5 points)

C = 70-76 (cut-off 347.5 points)

D = 60-69 (cut-off 297.5 points)

F = 0-59 (below 297.5 points)

MORE ON GRADES:

The instructor doesn't give you a grade he/she awards you the grade you earn! There will be no posting of grades except as provided for on Canvas (Note: the Canvas Grade-book does not include attendance until the end of the semester, but it does generally display a close representation of your grade at any given time, students can always come to my office during office hours to get a more accurate estimate as to how their grade is progressing). Test-answer

sheets once graded will be returned to you. It is the student's responsibility to save all returned papers should a question arise concerning your point total, you will need to bring in all returned answer sheets, so we can check to see if an error was made in recording the scores, otherwise the recorded grade will be assumed correct.

COURSE CONTENT: refer to chapter descriptions in textbook.

COURSE OUTLINE: refer to schedules below:

Tentative Lecture Schedule:

week chapters/Lectures associated tests

| | | |
|----|--------------|--|
| 1 | 1, & 2 | |
| 2 | 3 | |
| 3 | 4, 5, & 6 | |
| 4 | 6 | test-1 (chapters 1,2,3,4,5,&6 - W 2/1/23) |
| 5 | 7 & 8 | |
| 6 | 9,10,&11 | |
| 7 | 12 | test-2 (chapters 7,8,9,10,11,&12 - W 2/22/23) |
| 8 | 13, & 14 | |
| 9 | 14 | test-3 (chapters 13 & 14 - W 3/8/23) |
| 10 | Spring Break | |
| 11 | 15,16,17,&18 | |
| 12 | 19 & 20 | |
| 13 | 21 | test-4 (chapters 15,16,17,18,19.&20 - M 4/3/23) |
| 14 | 22, 23, & 24 | |
| 15 | 25 & 26 | |
| 16 | 27 | test-5 (chapters 21,22,23,24,25&26 - W (4/26/23) |
| 17 | | Final Exam (chapters 1 - 26, W 5/3/23) |

Due to unforeseen happenings, it may be necessary for the course assignment schedule to be altered. The instructor will always strive to be fair about any changes.

INSTITUTIONAL LEARNING OUTCOMES:

Becoming an educated individual sets you apart from the general public as one who has obtained a base of knowledge and skills that allows you to function in society at a higher level. As an institution of higher learning by the certificates and degrees we issue, we essentially certify that certain individuals have attained a specific level of knowledge. Therefore the sequences of courses we offer are planned to meet the requirements for said certification. So when you arrive at Microbiology (one of the basic science classes in certain Health Occupation Programs) you have generally completed coursework in composition, math, humanities, etc., it is therefore expected that you possess certain abilities in reading, writing, and mathematics. So while in microbiology I do not teach writing or math skills, these areas will be needed to understand what is taught and to express that understanding. That being said the Institutional Learning Outcomes (ILOs) listed below are to some degree only covered in this course in a secondary manner. The primary outcome for this course is to obtain a level of knowledge in the science of microbiology and in doing so developing critical thinking skills will be important. Therefore the analytical/critical thinking component of the ILOs is really the primary component covered in this course.

Course-related Institutional Learning Outcomes & Assessment Methods

Microbiology – MCB2010

| Institutional Learning Outcomes | Quiz | Exam | Project/ Paper | Classroom Activity | Service Learning |
|--|-------------|-------------|-----------------------|---------------------------|-------------------------|
| Critical Reasoning: The student will reflect, analyze, synthesize, and apply critical thinking. | | | | | |
| 1. State question at issue. | | | x | x | |
| 2. Identify purpose of argument. | | | x | X | |
| 3. Identify the ideas and concepts, information and data, and the use of such in the argument. | | | x | X | |
| 4. Identify assumptions, bias, and point of view of information presented. | | | x | X | |
| 5. Create plausible solutions and implications of solutions. | | | X | | |
| Communication: The student will read, write, speak, and listen effectively. | | | | | |
| 1. Read materials and effectively understand essential facts and concepts. | X | x | x | x | |
| 2. Write an organized document that communicates effectively and appropriately for the situation. | | | x | X | |
| 3. Listen actively to comprehend main ideas and essential details. | | | | x | |

| | | | | | |
|---|---|---|---|---|--|
| Quantitative and Analytical Reasoning: The student will understand and apply mathematical and scientific principles and methods. | | | | | |
| 1. Perform accurate computations using order of operations with and without technology. | X | x | x | X | |
| 2. Identify and organize relevant information and complete the solution of an applied problem. | X | x | x | X | |
| 3. Interpret and communicate understanding of visual representations of data. | X | x | x | X | |
| 4. Demonstrate mathematical number sense and unit sense. | | | x | X | |
| Global Socio-Cultural Responsibility: The student will be an informed and responsible citizen in social, cultural, and global matters. | | | | | |
| 2. Identify scientific principles underlying human influence upon the Earth and its inhabitants. | | | | X | |
| Computer & Information Skills: The student will be able to evaluate the importance of technology and its applications. | | | | | |
| 2. Access, research, and retrieve information using the Internet. | | | x | | |