

**Microbiology of Health and Disease
Oakland Community College - Auburn Hills**

**2017 Winter Semester
Cliff Belleau / Adjunct Instructor**

Biology 1570 (3 credits)

Registration Code 126581 // Section A1501

Meeting Time: Tuesdays // 2:30PM – 5:20 PM

Classroom: C-225

***Prerequisites:** Satisfactory score on the OCC Biology Proficiency Test or a grade of "C" or better in BIO 1511 or BIO 1530 (or equivalent college transfer course) within the last 5 years.*

Course Description

Student will study the general nature and behavior of microbes as applied to human health and disease, including the dynamics of normal flora, the infectious process, microbes as causative agents of disease, host parasite relationships and development of immunity. Particular emphasis will be placed on the study of various modes of transmission and proper management to prevent spreading of infectious disease. This natural science course is also required for many health-related fields. This is a non-lab course.

Course Goals

Students will learn

- the basics of microbiology as it relates to host microbe interactions
- that host microbe interactions include pathogens and microbes essential to human health
- the three lines of defense that prevent infection
- several mechanisms and examples of bacteria that evade the host immune system to cause disease
- How to set and achieve academic goals to improve performance

General Education (GE) Outcomes: All of the OCC General Education courses are assigned at least one general learning outcome beyond the specific outcomes of the course. For BIO1570 the GE Outcome is Scientific Literacy.

Instructor: Cliff Belleau – Adjunct Instructor of Biological Science

Office Hours: Tuesdays 2:00PM (By Appointment) C-225

E-mail: cdbellea@oaklandcc.edu

Life Science Departmental Office: (248) 232-4535

Student Resources: www.oc2cb.com/micro

Student Assistance Numbers

For tutoring, contact the Academic Support Center (ASC) @ (248) 232-4435

Or the Math and Science tutoring lab in G150 @ (248) 232-4064

ADA Notification

Students requiring special assistance (including those affected by the Americans with Disabilities Act (ADA)) should contact the ACCESS Office (Accessibility Compliance Center and Educational Support Services) which will inform the instructor of any special conditions pertaining to their learning.

Auburn Hills ACCESS telephone #: (248) 232-4080

Auburn Hills ACCESS location: B-112

Required Books & Materials

- *Microbiology: Introduction by Tortola, 11th Edition*
- Scantrons (Form 882-E with 50 answer rows per side) for exams and #2 pencils
- Additional student resources and lecture presentations will be posted online at www.oc2cb.com/micro

Grading Procedures & Rules Regarding Exams

Your grade will be determined by taking the average of seven unit exams (See Exam Schedule). You will also be able to earn “bonus points” by taking a “matching vocabulary quiz” with each exam. Unit exam will consist of 50 to 60 questions (multiple choice, true and false, matching // 100 pts). You will have 90 minutes to complete the exam and matching quiz. You will also be able to earn bonus points by watching a guest lecture on-line and completing a video worksheet.

There are no make-up exams! If you miss a unit exam then you will receive a zero for the unit exam, however. You may take an optional Replacement Exam and you may use the Replacement Exam for a missed unit exam. If you take all of the unit exams and you take the Replacement Exam then you can use the Replacement Exam to replace your lowest unit exam.

You must bring a Scantron to the exams with a number 2 pencil.

1. The Grading Scale is as follows:

A = 90-100%	C = 70-75.9%
A- = 88-89.9%	C- = 68-69.9%
B+ = 86-87.9%	D+ = 66-67.9%
B = 80-85.9%	D = 60-65.9%
B- = 78-79.9%	F = 0-59.9%
C+ = 76-77.9%	
2. If you come to class late on an exam date then YOU WILL NOT BE GIVEN ADDITIONAL TIME to complete the exam. At the end of the scheduled exam, we will immediately start an hour lecture following the exam.
3. Faculty can no longer give WP and WF Grades.

The WS (withdrawal), stopped attending, This faculty-initiated mark is awarded when a student stops attending the class. Marks of WS do not satisfy prerequisites and are not transferable. This mark is not used in the calculation of GRA, but it may affect eligibility for financial aid.

Student initiated withdrawal “W”

A student can withdrawal from a course on-line by logging on to their Online Service account under the register and drop sections. You must do this by the last day to drop. See the lecture schedule for the last day to withdraw. Note: Withdrawal from a course is irreversible and will result in a grade of “W” in the course. This must be done by the student, and cannot be done by faculty members. However, failing to withdrawal will result in the instructor assigning a grade based upon the total points earned by the end of the semester. Any and all missed assignments quizzes or exams will be scored as a zero. If you decide to end your participation in this course you must officially withdrawal.

4. Incomplete “INC” will only be given in cases where a student has completed 80% of the course with a grade of C or better.
5. The Grade of “N” will be given to students that do not attend any class periods for the first 20% of the course. Reporting date is Tuesday, September 27, 2016. The instructor must enter “N” marks within 48 hours of this date.
6. Cheating – Cheating, plagiarism, activities resembling them, and other acts of intellectual or academic dishonesty (including assisting others to cheat or plagiarize) will be dealt with severely. The instructor may assign either a grade of F for the entire course or an F grade in the evaluation device involved in these activities. Such activities may be reported to the Dean. This will be at the instructor’s discretion. No electronic devices (phones, ipads, ipods, mp3 players, etc. may be used during in-class tests and quizzes with the exception being a calculator. You may not use a phone for this purpose. Additionally you may not leave the room during a test. If a student leaves during an exam the instructor will assume that the student has completed the exam and it will be collected and scored as is.
7. **IMPORTANT FERPA REMINDER:** Per the Family Educational Rights and Privacy Act (FERPA), college personnel are not allowed to release students’ personal information to anyone, including other students. If you have any questions regarding FERPA, please refer to page 17 in the current College Catalog.

Suggested study tips

1. Read the chapter before class and do the Learning Objective Study Guides (then you’ll be familiar with the terms and if you did not understand something from the reading assignment then you can ask a question during the lecture.)
 2. Bring your book to class & highlight figures discussed in lecture.
 3. Come to class, ask questions if you don’t understand. Don’t skip class. Just reading the book or copying someone’s notes is no substitute. You will learn more if YOU come to class.
 4. After lecture review your notes, Learning Objective questions, and read the chapter again.
 5. Don’t fall behind. Don’t wait until the night before an exam to start studying. The best way is to do a little work each day.
 6. Call the ASC for tutor.
 7. Don’t wait until it’s too late to seek help. If you have any concerns see the instructor ASAP.
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Late Instructor Policy:

If I am going to be late for class, I will have a college employee inform you of my approximate time of arrival. If I am late then you should use the time to review current study guide questions. If you have not heard from a college employee after 30 minutes, then you can leave for the day but check Web site message board for updates.

A word on being a college student

- The word “learn” is a verb—it’s one of those action words. Learning requires action on the learner’s part.
- You are not a customer. You’re more like a client. You’re here for faculty expertise. Not for goods and services.
- Grades are not “goods”. You are here to learn. Grades are just a measure of how well you mastered the information.
- Work as though you are self employed. You are here for yourself.

Testing procedure for courses

- Materials: one new Scantron, and a number 2 pencils.
- **Turn your phone and any electronics devices off and put them away. Phones off, not on vibrate, but completely off.** You do not want to be distracted during the test.
- The test and bonus point quiz will be handed out face down leave the test face down. The instructor will inform the class when to begin so that everyone starts at the same time. You must complete the bonus point quiz first then start the unit exam.
- Be quite once the test begins, i.e. no talking.
- Remain seated once the test begins.
- Raise your hand if you have a question, and the instructor will come to you.
- If the backup pencil breaks raise your hand so the instructor can bring you a replacement. Do not use the very noisy classroom sharpener.
- Do not leave the classroom during the test. If you do, I will assume you are finished, and your test will be collected and scored as is.
- You may have a drink during the test, but there will be no eating during tests.
- When the test is complete stop writing on the scantron. The instructor will inform you of the time remaining periodically during the test, but students should keep track of the time.

Test taking suggestions

- Buy all the Scantorns you will need for the whole semester at the beginning of the semester.
- Be prepared, confident and *relaxed*.
- Use the bathroom before the test starts (you will not be able to during the test).
- Tests are “open brain” do not bring your text, notes or flashcards to the test.
- Do something relaxing just before the test: listen to music, draw pictures, read a novel, do a crossword or Sudoku puzzle.
- Scan whole test before answering the questions.
- If you get stuck on a difficult problem move on the next question and go back to it later.

Attendance is strongly recommended.

There will be a significant amount of material presented to you each week. I encourage question and discussions during class. It is in your best interest to attend class and to be on time. Come to class prepared. There are mandatory homework assignments (reading assignments, videos, and study guides). These homework assignments are designed to help you prepare for the unit exams. You do not have to turn in the study guide questions. You should complete the reading assignments before we cover the material in class.

The course schedule is tentative.

Any changes will be announced in class and posted on the student resource Web site (www.oc2cb.com/micro). If class is cancelled on the day of an exam, it will be given during the next meeting. Students need to check the online "Message Board" for updates and corrections which might occur throughout the week between on scheduled weekly lectures.