

**BIO 2200 Introductory Microbiology**  
**Course Syllabus**  
*Spring/Summer Semester, 2019*

Instructor: **Dr. Robert Anthony Thomas**  
Building and Office number: **2121 BSB**  
Office phone: **313-577-3548**  
Email address: **aa1467@wayne.edu**

**CLASS MEETING LOCATION**

**0146 Helen Deroy**

**CLASS MEETING TIME**

**10:30 – 12:00**

**COURSE DESCRIPTION AND OBJECTIVES**

This course will provide knowledge of microorganisms and their basic biology; the relationship of microorganisms to man and other living forms, including their ecological importance and their role in the causation of disease; laboratory exercises paralleling the above principles.

The objective in the laboratory portion of the course is to use aseptic techniques to develop the skills necessary to isolate, generate pure cultures, and identify microorganisms from mixed cultures.

**COURSE PREREQUISITES**

Students are required to have completed the following courses:

**BIO 1510 with a C minus or better. BIO 1500 is recommended for BIO Majors**

**OFFICE HOURS**

**Monday and Wednesday, 9:00 – 10:15 in 2121 BSB**

A mutually convenient appointment at other times may also be arranged by an email request at [rathomas@wayne.edu](mailto:rathomas@wayne.edu).

In addition, you may e-mail Dr. Thomas questions or comments. Responses are usually provided within a 48 hour window.

**EXAMS**

There will be four (4) in-class midterm examinations. There will also be one final exam that will be comprehensive, i.e. it will cover material presented in the entire course.

**COURSE CREDITS**

This is a **5** credit course.

**TEXT BOOK AND LECTURE SLIDES:**

**MICROBIOLOGY: An Evolving Science 4<sup>th</sup> ed. by Sloncewski and Foster**

Every effort will be made to provide the lecture slides on CANVAS a day or more before class (*Previewing slides is strongly encouraged*).

**OUTSIDE READING**

If needed it will be suggested during class

**PAPERS ASSIGNED IN CLASS**

If needed it will be assigned in class

**EXAM DATES**

There will be four closed-book midterm examinations and a final exam, all given in class:

<b>Friday, May 31, 2019</b>	<b>EXAM I</b>
<b>Monday, June 17, 2019</b>	<b>EXAM II</b>
<b>Monday, July 08, 2019</b>	<b>EXAM III</b>
<b>Monday, July 22, 2019</b>	<b>EXAM IV</b>
<b>Monday, July 29, 2019</b>	<b>FINAL (Comprehensive) Chapters ALL</b>

The Final exam will be held on **Monday, July 29, at 10:30 - 12:00 in 146 Deroy.**

**NOTE: THE ROOM IN WHICH THE EXAM WILL BE HELD IS THE SAME AS THE REGULAR CLASS ROOM.** The final exam is scheduled as designated in the Schedule of Classes for this term. No other time for the final exam will be available, and no exceptions will be made for conflicts such as student travel plans.

**EXAM FORMATS**

The midterm exams include 30 questions, that are combination multiple choice, and matching. All exams will be closed book and held in class. All you will need is a few sharp pencils. No electronic devices of any kind will be allowed unless indicated otherwise in advance, and cell phones and pagers must be turned off. Anyone who leaves the exam room will not be allowed back in. Late-arriving students should know that **admittance into the exam room will not be allowed after the first student has left the room.** Scantron forms will be supplied if required. Do not bring your own scantron forms to the exams as you will not be allowed to use them.

## **GRADING**

The midterms will each count for 20% of the grade. The midterm with the lowest numerical score will be dropped. If a midterm is not taken, that exam will receive a score of 0 (zero) and may be dropped. Only one midterm will be dropped, even if two or more exams are missed.

The final exam will count for 40% of the grade and will be comprehensive, i.e. it will cover material presented in the entire course. The final exam is mandatory and is not one of the dropped scores. Final grading is based on a straight scale, set by the A's (A, A-), followed by B's (B+, B, B-); C's (C+, C, C-)...

Class participation and attendance are strongly encouraged for successful completion of the course.

### **There is no extra credit under any circumstances**

Final scores for the entire course will be normalized between the lecture and the lab section scores.

Students with scheduling conflicts for any midterm exam must notify Dr. Thomas in writing by class time **no later than one week before the exam**. No make-up exams will be given unless he is notified in writing by this date. Reasonable exceptions will be granted in cases of illness which will require notification prior to the exam and must be followed up with an original signed note from a physician.

## **EXAM GRADE DISPUTES / CHALLENGE OPTION**

Students will have one (1) week after the return of an exam or a written assignment to challenge a grade for any question. Failure to challenge the grade within this period indicates a willingness to accept the grade as assigned. The challenge should consist of a written description of why the answer is correct based on other published material that you cite. It is not an opportunity to complain.

## **CHEATING**

A strict zero-tolerance policy for cheating will be enforced. Anyone caught cheating on an exam will receive a score of 0 (zero) for that portion of the grade.

Students found to be cheating during an exam (using a "cheat sheet", looking at another's paper, or allowing another to look at yours), will receive a zero for that test with no opportunity to drop or replace that score. A second episode of cheating will result in a grade of F for the course and may also result in initiation of university disciplinary action.

## **POSTING OF EXAM GRADES**

Exam grades will be posted on CANVAS by Student ID Number. The distribution of scores will also be provided in class.

## **SPECIAL CONSIDERATIONS FOR INDIVIDUALS WITH DISABILITIES**

If you have a documented disability that requires accommodations, you will need to register with Student Disability Services for coordination of your academic accommodations. The Student Disability Services (SDS) office is located at 1600 David Adamany Undergraduate Library in the Student Academic Success Services department. SDS telephone number is 313-577-1851 or 313-577-3365 (TTY: telecommunication device for the deaf; phone for hearing impaired students only). Student Disability Services' mission is to assist the university in

creating an accessible community where students with disabilities have an equal opportunity to fully participate in their educational experience at Wayne State University.

### **RELIGIOUS HOLIDAY CONFLICTS**

If you have a conflict with any of the scheduled class or exam times due to religious reasons, you must notify Dr. Thomas in writing by class time no later than a week before the exam. No make-up exams will be given unless he is notified in writing by this date.

### **ADD/DROP POLICY**

Add forms will not be signed after the second week of class.

Drop forms must be signed before the end of “study day”, which is the day after the last day of classes.

Wayne State has changed the grading policy. There are no more "X" grades. If you sign up for a class, stop attending, and fail to withdraw, you will receive an F for the course. In addition, if you drop the course after 5 weeks, you will be assigned one of the following three marks: WP (withdrew but was passing at the time), WF (withdrew but was failing at the time), WN (withdrew and never attended class or no graded work). Also, any "I" given to a student will automatically revert to "F" if the work is not completed within one calendar year. There are no exceptions. The failure notation has been changed from an "E" to an "F". Further information on the grading policy can be found at <http://sdcl.wayne.edu/RegistrarWeb/Registrar/policies.htm>.

### **UNEXPECTED UNIVERSITY CLOSURES.**

If the University is officially closed on an exam day, the exam will be held on the next regularly scheduled class day. Closure of the University is announced by the following mechanisms:

1. The University Newslines (313) 577-5345 \*
2. WSU Homepage ([www.wayne.edu](http://www.wayne.edu)) \*
3. WSU Pipeline ([www.pipeline.wayne.edu](http://www.pipeline.wayne.edu)) \*
4. WDET-FM (Public Radio 101.9)
5. by other local radio and television stations

\* Note: The information on closures and class cancellations is likely to be found at these locations before it is broadcast by local radio and television stations

### **MISCELLANEOUS**

- I am happy to write letters of recommendations for students who earn a final grade of A or A- in the course.
- Please turn all cell phones off during class and exams.
- Any specific issue not covered by this syllabus will be resolved using University policies.
- Disputes that cannot be resolved following the guidelines present in this syllabus will be resolved by following the guidelines of the University “Student Due Process”.

## TENTATIVE SCHEDULE OF TOPICS TO BE COVERED IN BIO 2200 SPRING/SUMMER 2019

WEEK	DATE	TOPIC	CHAPTER
1	Monday, May 06, 2019	Course overview /Microorganism and microbiology	1
	Wednesday, May 08, 2019	Microbial Life: Origin and Discovery	1
2	Monday, May 13, 2019	Observing the Microbial Cell	2
	Wednesday, May 15, 2019	Cell Structure and Function	3
3	Monday, May 20, 2019	Bacterial Growth and Development	4
	Wednesday, May 22, 2019	Environmental Influences and Control of Microbial Growth	5
4	Monday, May 27, 2019	University Closed	
	Wednesday, May 29, 2019	Viruses	6
	Friday, May 31, 2019	Scheduled as a Monday <b>EXAM I</b>	1-6
5	Monday, June 03, 2019	Genomes and Chromosomes	7
	Wednesday, June 05, 2019	Transcription Translation and Bioinformatics	8
6	Monday, June 10, 2019	Gene Transfers, Mutations and Genome Evolution	9
	Wednesday, June 12, 2019	Molecular Regulation	10
7	Monday, June 17, 2019	<b>EXAM II</b>	7-10
	Wednesday, June 19, 2019	Viral Molecular Biology	11
8	Monday, June 24, 2019	Biotechniques and Synthetic Biology	12
	Wednesday, June 26, 2019	Energetics and Catabolism	13
		Electron Flow in Organotrophy, Lithotrophy, and Phototrophy	14
9	Monday, July 01, 2019	Biosynthesis	15
	Wednesday, July 03, 2019	Food and Industrial Microbiology	16
10	Monday, July 08, 2019	<b>EXAM III</b>	11-16
	Wednesday, July 10, 2019	Human microbiota and innate immunity	23
11	Monday, July 15, 2019	The Adaptive Response	24
	Wednesday, July 17, 2019	Microbial Pathogenesis/Microbial Diseases	25, 26
		Clinical Microbiology and Immunology	28
12	Monday, July 22, 2019	<b>EXAM IV</b>	23-26, 28
	Wednesday, July 24, 2019	<b>REVIEW</b>	
13	Monday, July 29, 2019	<b>FINAL EXAM</b>	23-28

**NOTE: These topics are tentative and thus may be subject to change**

University Re-Opens After Semester Break	
<b>Spring/Summer 2019</b>	<b>Spring/Summer</b>
Schedule of Classes Online	Tue Jan 22
Priority Registration ( <a href="#">First week schedule</a> )	Mon Feb 4 - Sun May 5
Classes Begin	Mon May 6
Late Registration	Mon May 6 - Sun May 19
Last Day to Drop with Tuition Cancellation	Sun May 19
Holiday - University Closed	Mon May 27
Day Scheduled as a Monday	Fri May 31
Instructor Approval Required to Withdraw from Classes. In Academics: select "Course Withdrawal" from the Registration Menu under Student Resources; ***SMART Check*** is required.	Mon May 20 - Sun Jul 14
Degree Applications Due	Fri Jun 7
Census Date	Tue Jul 2
Holiday - University Closed	Thu Jul 4
Day Scheduled as a Thursday	Fri Jul 5
Last Day to Request Course Withdrawal	Sun Jul 14
Classes End	Fri Jul 26
Study Day - Final Exams May Not Be Scheduled	Sat Jul 27
Final Exams	Mon Jul 29 - Thu Aug 1