



**INTRODUCTORY MICROBIOLOGY & IMMUNOLOGY
SPRING 2015 CLASS SCHEDULE**

MIC 301/303/320

<p>MIC 301 R1** and R2 Lecture Spring 2015: Cox Science Bldg. Room 126 Tues. & Thurs. 2:00 - 3:15</p> <p>MIC 302 5S** Seminar Select Thurs. 3:30 - 4:45</p>	<p>MIC 301 R1** and R2 Laboratory Spring 2015: Cox Science Bldg. Room 251 M & W Section 01 8:00 - 10:30 Section 02 11:15 - 1:45 Section 03 2:30 - 5:00 Section 04 5:45 - 8:15</p>
<p>MIC 303 R3** or R4 Lecture* Spring 2015: Cox Science Bldg. Room 126 Tues. & Thurs. 2:00 - 3:15pm</p>	<p>MIC 304 Laboratory Fall 2015 Cox Science Bldg. Room 251 M & W Section 02 & 03** 11:15 - 1:45 Section 04 & 05** 2:30 - 5:00</p>
<p>* If lab (MIC 304) is not completed in the Fall, the MIC 303 will not be considered an equivalent to the MIC 301. If the time of the lab in the Fall will be a problem please drop the course. ** denotes honors sections</p>	

Required Text:

Microbiology: An Evolving Science, 3rd Edition by Slonczewski and Foster
 ISBN-13: 9780393123678 \$160 New, \$120 Used, \$112 Rental New, \$80 Rental Used: UM bookstore soft cover
 E-book Version ISBN-13: 9780393903355 \$101.66 Own: Norton Publishing
<http://books.wwnorton.com/books/detail-formats.aspx?ID=4294977366>
<http://books.wwnorton.com/books/detail.aspx?ID=4294979761>
 Rental \$50

Highly Recommended Laboratory Supplement:

A Photographic Atlas for the Microbiology Laboratory, 4rd Edition by Leboffe and Pierce
 ISBN-13: 9781617310072 \$41.26 New: UM bookstore

HONORS STUDENTS

All honors students who are registered for MIC 301, MIC 320 or MIC 303 Section R1, must also be registered for MIC 302 Section S1 Seminar. In order to get honors credit you must complete summaries of each of the seminars. If the summaries are not received on the specified date no grade will be entered as your final grade until they are turned in. Summaries should be a page and a half each, typed and turned in to Roger on the date stated.

Fri., Apr. 24	Classes End at 11:00 PM
Apr. 25 – 28	Reading Days
Mon., May 11	Final Grades released by faculty in Canelink by 12pm
Wed., May 13	Final Grades available to students in Canelink
Wed., Jan. 28	Last day to drop a course without a “W”
Wed., Mar. 25	Last day to drop a course.

INTRODUCTORY MICROBIOLOGY & IMMUNOLOGY

SPRING 2015 CLASS SCHEDULE

MIC 301/303/320

Microbiology 301, 303, and 320 Lecture Schedule

Blocks	Dates	Lectures
1	Tues., Jan. 13	Prokaryotic Cell Structure and Function I - Dr. Munson
	Thurs., Jan 15	Prokaryotic Cell Structure and Function II - Dr. Munson
	Tues., Jan 20	Prokaryotic Cell Structure and Function III - Dr. Munson
	Thurs., Jan 22	Prokaryotic Cell Structure and Function IV - Dr. Munson
	Tues., Jan. 27	Prokaryotic Cell Structure and Function V - Dr. Munson
	Thurs., Jan. 29	Prokaryotic Cell Structure and Function VI - Dr. Munson
	Tues., Feb. 3	Exam 1: Block 1
2	Thurs., Feb 5	Bacterial Pathogenesis I - Dr. Plano
	Tues., Feb. 10	Bacterial Pathogenesis II- Dr. Munson
	Thurs., Feb. 12	Bacterial Pathogenesis III - Dr. Munson
	Tues., Feb. 17	Bacterial Pathogenesis IV - Dr. Plano
	Thurs., Feb. 19	Bacterial Pathogenesis V - Dr. Plano
	Tues., Feb. 24	Bacterial Pathogenesis VI - Dr. Plano
	Thurs., Feb. 26	Exam 2: Block 2
3	Tues., Mar. 3	Parasitology I - Dr. Ager
	Thurs., Mar. 5	Parasitology II - Dr. Ager
	Sat., Mar. 7	SPRING BREAK
	Sun., Mar. 15	SPRING BREAK
	Tues., Mar. 17	Immunology I - Dr. Lichtenheld
	Thurs., Mar. 19	Immunology II - Dr. Lichtenheld
	Tues., Mar. 24	Immunology III - Dr. Lichtenheld
	Thurs., Mar. 26	Immunology IV - Dr. Lichtenheld
	Tues., Mar. 31	Exam 3: Block 3
4	Thurs., Apr. 2	Immunology V - Dr. Lichtenheld
	Tues., Apr. 7	Immunology VI - Dr. Lichtenheld
5	Thurs., Apr. 9	Virology I - Dr. Lopez
	Tues., Apr. 14	Virology II - Dr. Lopez
	Thurs., Apr. 16	Virology III - Dr. Lopez
	Tues., Apr. 21	Virology IV - Dr. Lopez
	Thurs., Apr. 23	Exam 4: Blocks 4 & 5 (Honors papers due)

INTRODUCTORY MICROBIOLOGY & IMMUNOLOGY

SPRING 2015 LABORATORY SCHEDULE

MIC 301

Microbiology 301 Laboratory Schedule

Dates	Laboratories
Wed., Jan. 21	Lab - Exercise 0 Microscope 101
Mon., Jan. 26	Lab - Exercise 1 (The Culturing of Microorganisms), Quiz 1
Wed., Jan. 28	Lab - Exercise 2 (Motility detection and Staining techniques)
Mon., Feb. 2	Lab - Exercise 3 (Staining methods), Quiz 2
Wed., Feb. 4	Lab - Exercise 4 (Study of Morphology)
Mon., Feb. 9	Lab - Exercise 5 (Metabolic Reactions I), Quiz 3
Wed., Feb. 11	Lab - Exercise 5 (Metabolic Reactions I cont.)
Mon., Feb. 16	Lab - Exercise 5 (Metabolic Reactions II), Quiz 4
Wed., Feb. 18	Lab - Exercise 5 (Metabolic Reactions II cont.)
Mon., Feb. 23	Lab Exam 1 (Exercises 0 – 5, 100 possible points)
Wed., Feb. 25	Lab - Exercise 6 (Skin Bacteria)
Mon., Mar. 2	Lab - Exercise 7 (Parasitology), Quiz 5
Wed., Mar. 4	Lab - Exercise 7 (cont.)
Mon., Mar. 9	SPRING BREAK
Wed., Mar. 11	SPRING BREAK
Mon., Mar. 16	Lab - Exercise 8 (Bacterial Analysis of Water/Air), Quiz 6
Wed., Mar. 18	Lab - Exercise 8 (cont.)
Mon., Mar. 23	Lab - Exercise 9 (Antimicrobial Susceptibility Testing), Quiz 7
Wed., Mar. 25	Lab - Exercise 9 (cont.) & 10 (Unknown Experiment) Unknowns given out
Fri., Mar. 27	Check on cultures in lab from 12-2pm and refrigerate them if needed.
Mon., Mar. 30	Lab - Exercise 10 (cont.) Work on unknown, Quiz 8
Wed., Apr. 1	Lab - Exercise 11 (ELISA) & Work on unknown
Fri., Apr. 3	Check on cultures in lab from 12-2pm and refrigerate them if needed.
Mon., Apr. 6	Lab Exam 2 (Exercises 6 – 11, 100 possible points)
Wed., Apr. 8	Lab - Exercise 12 (Blood Typing) & Work on unknown, Quiz 9
Mon., Apr. 13	Lab - Exercise 13 (Transformation) & Work on unknown, Quiz 10
Wed., Apr. 15	Lab - Exercise 13 (PCR) & Work on unknown
Mon., Apr. 20	Lab - Exercise 13 Analysis, Quiz 11 & Last unknown test run
Wed., Apr. 22	Lab - Practical Exam/ (Exercises 0 – 13, 100 possible points)
Fri., Apr. 24	Lab - Unknown Reports Due (100 possible points)

INTRODUCTORY MICROBIOLOGY AND IMMUNOLOGY

SPRING 2015 CLASS SCHEDULE

MIC 301/303/320

INSTRUCTORS

Dr. Arba Ager, Associate Professor
Department of Microbiology and Immunology
University of Miami School of Medicine
Phone: 305-252-4384

Dr. Mathias Lichtenheld, Associate Professor
Department of Microbiology and Immunology
University of Miami School of Medicine
Phone: 243-3301

Dr. George Munson, Associate Professor
Department of Microbiology and Immunology
University of Miami School of Medicine
Phone: 243-5317

Dr. Gregory Plano, Professor
Department of Microbiology and Immunology
University of Miami School of Medicine
Phone: 243-6310

Dr. Diana Lopez, Professor, Undergraduate Program Director, Course Coordinator, Advisor
Department of Microbiology and Immunology
University of Miami School of Medicine
Phone: 243-6632

Roger Williams Jr., MS Ed, Director, Student Activities, Lab Coordinator, Advisor
Department of Microbiology and Immunology
Cox Science Bldg. Room 251 A
Phone: 284-6422

INTRODUCTORY MICROBIOLOGY & IMMUNOLOGY
SPRING 2015 CLASS SCHEDULE
MIC 301/303/320

Laboratory Teaching Assistants

01	{	Victoria Pinilla
		Obianuju (Obi) Nwamah
02	{	Raymond La
		Benjamin Seiden
03	{	David Alvarez
		Matthew Phillips
04	{	Vytas Robinson
		Jennifer Chavez

Class Attendance

A substantial part of this laboratory course is based upon classroom participation. Regular and punctual attendance is therefore required. Absences for University approved reasons must be discussed with Dr. Lopez or Roger in advance. Absences due to illness will require verification. Absences relating to the observance of religious holidays must be brought up with Roger within the first week of classes in order to be excused. Poor attendance may affect your final grade. Class Attendance will be taken periodically; this information will be used when calculating your final grade. It is recommended that **all** students attend **all** classes.

Laboratory

Latex gloves will be provided to students. There will be a \$20 fee for the laboratory manuals to cover printing costs...

Grading System

Examinations will be based upon lecture material, handouts, and specific book assignments.

	<u>MIC 301</u>	<u>MIC 320</u>	<u>MIC 303</u>	<u>MIC 303 and 304 completed</u>
Lecture Exam #1	20%	25%	25%	20%
Lecture Exam #2	20%	25%	25%	20%
Lecture Exam #3	20%	25%	25%	*
Lecture Exam #4	20%	25%	25%	20%
Laboratory	20%	0%	TBD	20%*

*The grade you earn in MIC 303 can go up or down after taking the MIC 304 in the fall, a change of grade will be turned in so that the MIC 303 grade matches the MIC 304 grade after it's all recalculated.

Grading Scale

A	90 - 100
B	80 - 89
C	70 - 79
D	60 - 69
F	0 - 59

Exams

Exams will be held on the scheduled days. The instructors, if necessary, may move exams. Students will not be allowed makeup exams unless there is adequate documentation from their doctor, a police report or death certificate of family member. Any makeup exams given will be conducted at the discretion of the instructors.

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SPRING 2014 CLASS SCHEDULE

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For Your Information

The Microbiology and Immunology major is based on the medical campus. All of our faculty teach graduate, medical and undergraduate students. As most of you are aware, the MIC 301/Lab is a recommended course for those pursuing a career in the health sciences (as you will see microbiology in the first year of medical school). Additionally, the MIC 320 is required for nursing students to enter the clinical portion of their program.

Students interested in pursuing a **major** in Microbiology and Immunology must take MIC 301 or MIC 303 + 304 equivalent, MIC 319 and MIC 321 plus an additional 13 credits in the program in addition to the B.S. degree requirements. Major = 24 credits. If you are currently in your sophomore year, a switch to microbiology is not too late please contact Roger Williams for details.

Those wishing to **minor** in Microbiology and Immunology must take MIC 301 or MIC 303 + 304 equivalent, MIC 319 and MIC 321 plus an additional 1 credit in the program. Minor = 12 credits. The honors section of MIC 301 (MIC 302) may be used for this 1 credit or MIC 441.

MIC 320 cannot be used to count toward the major or minor in Microbiology and Immunology. Therefore if you are currently in MIC 320 and wish to be a MIC major or minor you will need to switch to MIC 301 or MIC 303.

For specifics regarding requirements, please see your Undergraduate Bulletin.

Courses offered in our department

- MIC 301/Lab (Introductory Microbiology and Immunology)
- MIC 302 (Honors Seminar) Co-requisite MIC 301, 303 and 320 honors sections
- MIC 303 Part 1 (Introductory Microbiology and Immunology Lecture) }
MIC 304 Part 2 (Introductory Microbiology and Immunology Lab) } Equals MIC 301
- MIC 320 (Nursing Microbiology) Only for Nursing students**

- MIC 319 (Innate Immunity) }
MIC 321 (Immunobiology) } Prerequisite MIC 301 or 303
MIC 322 (Parasitology) }
MIC 323 (Principles of Microbial Pathogenesis) }
MIC 436 (Virology) }
MIC 441 (Colloquium) }
MIC 451-456 (Special Projects) }