



INTRODUCTORY MICROBIOLOGY & IMMUNOLOGY
SPRING 2013 CLASS SCHEDULE

MIC 301/303/320

MIC 301 R1 and R2 Lecture Spring 2013: Cox Science Bldg. Room 126 Tues. & Thurs. 2:00 - 3:15	MIC 301 R1 and R2 Laboratory Spring 2012: 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 6:25 - 9:05
MIC 303 R1 or R2 Lecture* Spring 2013: Cox Science Bldg. Room 126 Tues. & Thurs. 2:00 - 3:15pm	MIC 304 02 Laboratory Fall 2013 Cox Science Bldg. Room 251 M & W Section 02 11:15 - 1:45 Section 03 2:30 - 5:00
* 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.	

Required Text:

Brock Biology of Microorganisms, 13th Edition by Madigan, Martinko, Dunlap and Clark
ISBN-13: 9780321649638 \$204.50 New UM bookstore

Highly Recommended Laboratory Supplement:

A Photographic Atlas for the Microbiology Laboratory, 4rd Edition by Leboffe and Pierce
ISBN-13: 9780895828729 \$39.95 New UM bookstore loose-leaf

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. 26
Apr. 27 – 30
Mon., May 13
Wed., May 15

Classes End at 11:00 PM
Reading Days
Final Grades released by faculty in myUM by 12pm
Final Grades available to students in myUM

Wed., Jan. 30
Fri., Mar. 29

Last day to drop a course without a “W”
Last day to drop a course.

Microbiology 301, 303 and 320 Lecture Schedule

Blocks	Dates	Lectures
1	Tues., Jan. 15	History and Prokaryotic Cell Biology I - Dr. Munson
	Thurs., Jan 17	History and Prokaryotic Cell Biology II - Dr. Munson
	Tues., Jan 22	History and Prokaryotic Cell Biology III - Dr. Munson
	Thurs., Jan 24	History and Prokaryotic Cell Biology IV - Dr. Munson
2	Tues., Jan. 29	Pathogenic Microbiology I - Dr. Plano
	Thurs., Jan. 31	Pathogenic Microbiology II - Dr. Plano
	Tues., Feb. 5	Pathogenic Microbiology III - Dr. Plano
	Thurs., Feb. 7	Exam 1: Blocks 1 & 2
3	Tues., Feb. 12	Taxonomy and Metabolic Diversity I - Dr. Fields
	Thurs., Feb. 14	Taxonomy and Metabolic Diversity II - Dr. Fields
	Tues., Feb. 19	Taxonomy and Metabolic Diversity III - Dr. Fields
4	Thurs., Feb. 21	Applied and Ecological Microbiology I - Dr. Fields
	Tues., Feb. 26	Applied and Ecological Microbiology II - Dr. Fields
	Thurs., Feb. 28	Exam 2: Blocks 3 & 4
5	Tues., Mar. 5	Immunology I - Dr. Lichtenheld
	Thurs., Mar. 7	Immunology II - Dr. Lichtenheld
	Sat., Mar. 9	SPRING BREAK
	Sun., Mar. 17	SPRING BREAK
	Tues., Mar. 19	Immunology III - Dr. Lichtenheld
	Thurs., Mar. 21	Immunology IV - Dr. Lichtenheld
	Tues., Mar. 26	Immunology V - Dr. Lichtenheld
	Thurs., Mar. 28	Immunology VI - Dr. Lichtenheld
	Tues., Apr. 2	Exam 3: Blocks 5
6	Thurs., Apr. 4	Parasitology I - Dr. Ager
	Tues., Apr. 9	Parasitology II - Dr. Ager
7	Thurs., Apr. 11	Virology I - Dr. Lopez
	Tues., Apr. 16	Virology II - Dr. Lopez
	Thurs., Apr. 18	Virology III - Dr. Lopez
	Tues., Apr. 23	Virology IV - Dr. Lopez
	Tues., May 7 2:00-4:30pm	Final Exam: Blocks 6 & 7 (Honors papers due)

Microbiology 301 Laboratory Schedule

Dates	Laboratories
Mon., Jan. 14	Lab - Exercise 0 Microscope 101
Wed., Jan. 16	Lab - Exercise 1 (The Culturing of Microorganisms), Quiz 1
Mon., Jan. 21	No Lab - Holiday (Martin Luther King, Jr Day)
Wed., Jan. 23	Lab - Exercise 2 (Motility detection and Staining techniques)
Mon., Jan. 28	Lab - Exercise 3 (Staining methods), Quiz 2
Wed., Jan. 30	Lab - Exercise 4 (Study of Morphology)
Mon., Feb. 4	Lab - Exercise 5 (Metabolic Reactions I), Quiz 3
Wed., Feb. 6	Lab - Exercise 5 (Metabolic Reactions I cont.)
Mon., Feb. 11	Lab - Exercise 5 (Metabolic Reactions II), Quiz 4
Wed., Feb. 13	Lab - Exercise 5 (Metabolic Reactions II cont.)
Mon., Feb. 18	Lab - Exercise 6 (Skin Bacteria), Quiz 5
Wed., Feb. 20	Lab - Exercise 6 (cont.)
Mon., Feb. 25	Lab - Exercise 7 (Bacterial Analysis of Water/Air), Quiz 6
Wed., Feb. 27	Lab - Exercise 7 (cont.)
Mon., Mar. 4	Lab Exam 1
Wed., Mar. 6	No Lab
Sat., Mar. 9	SPRING BREAK
Sun., Mar. 17	SPRING BREAK
Mon., Mar. 18	Lab - Exercise 8 (Antimicrobial Susceptibility Testing), Quiz 7
Wed., Mar. 20	Lab - Exercise 8 (cont.) & 9 (Unknown Experiment)
	<u>Unknowns given out</u>
Fri., Mar. 22	Check on cultures in lab from 12-2pm and refrigerate them if needed.
Mon., Mar. 25	Lab - Exercise 9 (cont.) Work on unknown, Quiz 8
Wed., Mar. 27	Lab - Exercise 10 (ELISA) & Work on unknown
Mon., Apr. 1	Lab - Exercise 11 (Blood Typing) & Work on unknown, Quiz 9
Wed., Apr. 3	Lab - Exercise 12 (Transformation) & Work on unknown
Mon., Apr. 8	Lab - Exercise 12 (PCR) & Work on unknown, Quiz 10
Wed., Apr. 10	Lab - Exercise 12 (Analysis) & Work on unknown, <u>Last test run</u>
Mon., Apr. 15	Lab - Exercise 13 (Parasitology), Quiz 11
Wed., Apr. 17	Lab - Exercise 13 (cont.)
Mon., Apr. 22	Lab - Unknown Reports Due, Optional Quiz 12
Wed., Apr. 24	Lab - Practical Exam
Fri., May 3	Section 01 Final Exam: 8:00 - 10:30 am
Wed., May 1	Section 02 Final Exam: 11:00 - 1:30 pm
Wed., May 8	Section 03 Final Exam: 2:00 - 4:30 pm
Wed., May 1	Section 04 Final Exam: 8:00 - 10:30 pm

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SPRING 2013 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. Ken Fields, Assistant Professor
Department of Microbiology and Immunology
University of Miami School of Medicine
Phone: 243-6711

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, Associate 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, Assistant Director, Lab Coordinator, Advisor
Department of Microbiology and Immunology
Cox Science Bldg. Room 251 A
Phone: 284-6422

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SPRING 2013 CLASS SCHEDULE
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Laboratory Teaching Assistants

01	{	Jennifer Rainho	(305)-243-3550	jrainho@med.miami.edu
		Anugraha Rajagopalan	(305)-243-1767	arajagopal@med.miami.edu
02	{	Darlah Lopez Rodriguez	(305)-243-7807	dlopezrodriguez@med.miami.edu
		Eduardo Lamas Basulto	(786)-274-9963	e.lamasbasulto@umiami.edu
03	{	Kelly McAvoy	(305)-203-0232	kmcavoy@med.miami.edu
		Amritanshu Joshi (Ashu)	(301)-448-9960	a.joshi3@umiami.edu
04	{	Yuyan Cheng	(305)-778-6357	ycheng@med.miami.edu
		Dominika Swieboda	(516)-220-7716	d.swieboda@umiami.edu

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. 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%	
Lecture Exam #3	20%	25%	25%	
Final Exam	20%	25%	25%	
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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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 321 and an additional 16 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 321 and an additional 4 credits in the program. Minor = 12 credits

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 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)	} Equals MIC 301
MIC 304 Part 2 (Introductory Microbiology and Immunology Lab)	
MIC 320 (Nursing Microbiology) Only for Nursing students	
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)	