



**INTRODUCTORY MICROBIOLOGY & IMMUNOLOGY**  
**SPRING 2012 CLASS SCHEDULE**

**MIC 301/303/320**

<b>MIC 301 R1 and R2 Lecture Spring 2012:</b> Cox Science Bldg. Room 126 Tues. & Thurs. 2:00 - 3:15	<b>MIC 301 R1 and R2 Laboratory Spring 2012:</b> 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
<b>MIC 303 R1 or R2 Lecture* Spring 2012:</b> Cox Science Bldg. Room 126 Tues. & Thurs. 2:00 - 3:15pm	<b>MIC 304 02 Laboratory Fall 2012</b> Cox Science Bldg. Room 251 M & W Section DF 11:15 - 1:45
<b>* 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.</b>	

**Required Text:**

Brock Biology of Microorganisms, 12<sup>th</sup> Edition by Madigan, Martinko, Dunlap and Clark  
ISBN-13: 978-0-13-232460-1 \$189.75 New

**Required Laboratory Supplement:**

A Photographic Atlas for the Microbiology Laboratory, 4<sup>rd</sup> Edition by Leboffe and Pierce  
ISBN: 089582-872-3 \$37.95 New

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**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.

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Fri., Apr. 27 Apr. 28 –May 1 Mon., May 14 Wed., May 16	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., Feb. 1 Mon., Apr. 2	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. 17	<b>History and Prokaryotic Cell Biology I</b> - Dr. Munson
	Thurs., Jan 19	History and Prokaryotic Cell Biology II - Dr. Munson
	Tues., Jan 24	History and Prokaryotic Cell Biology III - Dr. Munson
	Thurs., Jan 26	History and Prokaryotic Cell Biology IV - Dr. Munson
2	Tues., Jan. 31	<b>Pathogenic Microbiology I</b> - Dr. Plano
	Thurs., Feb. 2	Pathogenic Microbiology II - Dr. Plano
	Tues., Feb. 7	Pathogenic Microbiology III - Dr. Plano
	<b>Thurs., Feb. 9</b>	<b>Exam 1: Blocks 1 &amp; 2</b>
3	Tues., Feb. 14	<b>Taxonomy and Metabolic Diversity I</b> - Dr. Fields
	Thurs., Feb. 16	Taxonomy and Metabolic Diversity II - Dr. Fields
4	Tues., Feb. 21	Taxonomy and Metabolic Diversity III - Dr. Fields
	Thurs., Feb. 23	<b>Applied and Ecological Microbiology I</b> - Dr. Fields
	Tues., Feb. 28	Applied and Ecological Microbiology II - Dr. Fields
5	Thurs., Mar. 1	<b>Immunology I</b> - Dr. Lichtenheld
	Tues., Mar. 6	Immunology II - Dr. Lichtenheld
	Thurs., Mar. 8	Immunology III - Dr. Lichtenheld
	Tues., Mar. 13	SPRING BREAK
	Thurs., Mar. 15	SPRING BREAK
6	<b>Tues., Mar. 20</b>	<b>Exam 2: Blocks 3, 4 &amp; 5</b>
	Thurs., Mar. 22	Immunology IV - Dr. Lichtenheld
	Tues., Mar. 27	Immunology V - Dr. Lichtenheld
	Thurs., Mar. 29	Immunology VI - Dr. Lichtenheld
	Tues., Apr. 3	<b>Parasitology I</b> - Dr. Ager
	Thurs., Apr. 5	Parasitology II - Dr. Ager
7	Tues., Apr. 10	<b>Virology I</b> - Dr. Lopez
	Thurs., Apr. 12	Virology II - Dr. Lopez
	Tues., Apr. 17	Virology III - Dr. Lopez
	Thurs., Apr. 19	Virology IV - Dr. Lopez
	<b>Tues., Apr. 24</b>	<b>Exam 3: Blocks 6 &amp; 7 (Honors papers due)</b>

# Microbiology 301 Laboratory Schedule

Dates	Laboratories
Wed., Jan. 18	Lab - Exercise 0 Microscope 101
Mon., Jan. 23	Lab - Exercise 1 (The Culturing of Microorganisms)
Wed., Jan. 25	Lab - Exercise 2 (Motility detection and Staining techniques)
Mon., Jan. 30	Lab - Exercise 3 (Staining methods)
Wed., Feb. 1	Lab - Exercise 4 (Study of Morphology)
Mon., Feb. 6	Lab - Exercise 5 (Metabolic Reactions I)
Wed., Feb. 8	Lab - Exercise 5 (Metabolic Reactions I cont.)
Mon., Feb. 13	Lab - Exercise 5 (Metabolic Reactions II)
Wed., Feb. 15	Lab - Exercise 5 (Metabolic Reactions II cont.)
Mon., Feb. 20	Lab - Exercise 6 (Skin Bacteria)
Wed., Feb. 22	Lab - Exercise 6 (cont.)
Mon., Feb. 27	Lab - Exercise 7 (Bacterial Analysis of Water/Air)
Wed., Feb. 29	Lab - Exercise 7 (cont.)
Mon., Mar. 5	Lab - Exercise 8 (Antimicrobial Susceptibility Testing)
Wed., Mar. 7	Lab - Exercise 8 (cont.)
Mon., Mar. 12	SPRING BREAK
Wed., Mar. 14	SPRING BREAK
Mon., Mar. 19	Lab - Exercise 9 (Blood Typing)
<b>Wed., Mar. 21</b>	<b>Lab Exam 1</b>
Mon., Mar. 26	Lab - Exercise 10 (Unknown Experiment) Unknowns given out
Wed., Mar. 28	Lab - Exercise 10
Mon., Apr. 2	Lab - Exercise 11 (ELISA)
Wed., Apr. 4	Lab - Exercise 11 (cont.)
Mon., Apr. 9	Lab - Exercise 12 (PCR/Transformation)
Wed., Apr. 11	Lab - Exercise 12 (cont.) (Last unknown test can be run)
Mon., Apr. 16	Lab - Exercise 13 (Parasitology)
Wed., Apr. 18	Lab - Exercise 13 (cont.)
<b>Mon., Apr. 23</b>	<b>Lab - Unknown Reports Due</b>
<b>Wed., Apr. 25</b>	<b>Lab - Practical Exam</b>
<b>Fri., May 4</b>	<b>Section 01 Lab Exam 2: 8:00 - 10:30 am</b>
<b>Wed., May 2</b>	<b>Section 02 Lab Exam 2: 11:00 - 1:30 pm</b>
<b>Wed., May 9</b>	<b>Section 03 Lab Exam 2: 2:00 - 4:30 pm</b>
<b>Wed., May 2</b>	<b>Section 04 Lab Exam 2: 8:00 - 10:30 pm</b>

# INTRODUCTORY MICROBIOLOGY AND IMMUNOLOGY

SPRING 2012 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

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

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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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**Laboratory Teaching Assistants**

01	{	Dillon Betancourt	<a href="mailto:dbetancourt@med.miami.edu">dbetancourt@med.miami.edu</a>	561-635-1681
		Justin Boucher	<a href="mailto:jboucher@med.miami.edu">jboucher@med.miami.edu</a>	305-243-5697
02	{	Amanda Tristan	<a href="mailto:atristan@med.miami.edu">atristan@med.miami.edu</a>	305-243-5697
		Andrea Linares	<a href="mailto:a.linares2@umiami.edu">a.linares2@umiami.edu</a>	786-663-2956
03	{	Wael Bahnan	<a href="mailto:wbahnan@med.miami.edu">wbahnan@med.miami.edu</a>	305-243-7687
		Mary McKuen	<a href="mailto:mjmckuen@med.miami.edu">mjmckuen@med.miami.edu</a>	305-243-6118
04	{	Jen Bon Lui	<a href="mailto:jlui@med.miami.edu">jlui@med.miami.edu</a>	305-898-2868
		Ryan McCormack	<a href="mailto:rmccormack@med.miami.edu">rmccormack@med.miami.edu</a>	305-807-2967

**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>
Lecture Exam #1	25%	33.33%
Lecture Exam #2	25%	33.33%
Lecture Exam #3	25%	33.33%
Laboratory	25%	0%

**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
MIC 322 (Parasitology)	
MIC 323 (Principles of Microbial Pathogenesis)	
MIC 436 (Virology)	
MIC 434 (Microbial Genetics)	
MIC 441 (Colloquium)	
MIC 451-456 (Special Projects)	