



**INTRODUCTORY MICROBIOLOGY & IMMUNOLOGY
SPRING 2014 CLASS SCHEDULE**

MIC 301/303/320

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| <p>MIC 301 R1** and R2 Lecture Spring 2014: 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 2014: 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 2014: Cox Science Bldg. Room 126 Tues. & Thurs. 2:00 - 3:15pm</p> | <p>MIC 304 02 Laboratory Fall 2014 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.</p> <p>** denotes honors sections</p> | |

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. 25
Apr. 26 – 29
Mon., May 12
Wed., May 14
Wed., Jan. 29
Wed., Mar. 26

Classes End at 11:00 PM
Reading Days
Final Grades released by faculty in Canelink by 12pm
Final Grades available to students in Canelink
Last day to drop a course without a "W"
Last day to drop a course.

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Microbiology 301, 303, and 320 Lecture Schedule

| Blocks | Dates | Lectures |
|----------------------|------------------------|---|
| 1 | Tues., Jan. 14 | Prokaryotic Cell Structure and Function I - Dr. Munson |
| | Thurs., Jan 16 | Prokaryotic Cell Structure and Function II - Dr. Munson |
| | Tues., Jan 21 | Prokaryotic Cell Structure and Function III - Dr. Munson |
| | Thurs., Jan 23 | Prokaryotic Cell Structure and Function IV - Dr. Munson |
| | Tues., Jan. 28 | Prokaryotic Cell Structure and Function V - Dr. Munson |
| | Thurs., Jan. 30 | Prokaryotic Cell Structure and Function VI - Dr. Munson |
| | Tues., Feb. 4 | Exam 1: Block 1 |
| 2 | Thurs., Feb 6 | Bacterial Pathogenesis I - Dr. Plano |
| | Tues., Feb. 11 | Bacterial Pathogenesis II- Dr. Munson |
| | Thurs., Feb. 13 | Bacterial Pathogenesis III - Dr. Munson |
| | Tues., Feb. 18 | Bacterial Pathogenesis IV - Dr. Plano |
| | Thurs., Feb. 20 | Bacterial Pathogenesis V - Dr. Plano |
| | Tues., Feb. 25 | Bacterial Pathogenesis VI - Dr. Plano |
| | Thurs., Feb. 27 | Exam 2: Block 2 |
| 3 | Tues., Mar. 4 | Immunology I - Dr. Lichtenheld |
| | Thurs., Mar. 6 | Immunology II - Dr. Lichtenheld |
| | Sat., Mar. 8 | SPRING BREAK |
| | Sun., Mar. 16 | SPRING BREAK |
| | Tues., Mar. 18 | Immunology III - Dr. Lichtenheld |
| | Thurs., Mar. 20 | Immunology IV - Dr. Lichtenheld |
| | Tues., Mar. 25 | Immunology V - Dr. Lichtenheld |
| | Thurs., Mar. 27 | Immunology VI - Dr. Lichtenheld |
| Tues., Apr. 1 | Exam 3: Block 3 | |
| 4 | Thurs., Apr. 3 | Virology I - Dr. Lopez |
| | Tues., Apr. 8 | Virology II - Dr. Lopez |
| 5 | Thurs., Apr. 10 | Virology III - Dr. Lopez |
| | Tues., Apr. 15 | Virology IV - Dr. Lopez |
| | Thurs., Apr. 17 | Parasitology I - Dr. Ager |
| | Tues., Apr. 22 | Parasitology II - Dr. Ager |
| | Thurs., Apr. 24 | Exam 4: Blocks 4 & 5 (Honors papers due) |

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Microbiology 301 Laboratory Schedule

| Dates | Laboratories |
|----------------------|---|
| Mon., Jan. 13 | Lab - Exercise 0 Microscope 101 |
| Wed., Jan. 15 | Lab - Exercise 1 (The Culturing of Microorganisms), Quiz 1 |
| Mon., Jan. 20 | No Lab - Holiday (Martin Luther King, Jr Day) |
| Wed., Jan. 22 | Lab - Exercise 2 (Motility detection and Staining techniques) |
| Mon., Jan. 27 | Lab - Exercise 3 (Staining methods), Quiz 2 |
| Wed., Jan. 29 | Lab - Exercise 4 (Study of Morphology) |
| Mon., Feb. 3 | Lab - Exercise 5 (Metabolic Reactions I), Quiz 3 |
| Wed., Feb. 5 | Lab - Exercise 5 (Metabolic Reactions I cont.) |
| Mon., Feb. 10 | Lab - Exercise 5 (Metabolic Reactions II), Quiz 4 |
| Wed., Feb. 12 | Lab - Exercise 5 (Metabolic Reactions II cont.) |
| Mon., Feb. 17 | Lab Exam 1 (Exercises 0 – 5, 100 possible points) |
| Wed., Feb. 19 | Lab - Exercise 6 (Skin Bacteria), Quiz 5 |
| Mon., Feb. 24 | Lab - Exercise 6 (cont.) |
| Wed., Feb. 26 | Lab - Exercise 7 (Bacterial Analysis of Water/Air), Quiz 6 |
| Mon., Mar. 3 | Lab - Exercise 7 (cont.) |
| Wed., Mar. 5 | No Lab |
| Sat., Mar. 8 | SPRING BREAK |
| Sun., Mar. 16 | SPRING BREAK |
| Mon., Mar. 17 | Lab - Exercise 8 (Antimicrobial Susceptibility Testing), Quiz 7 |
| Wed., Mar. 19 | Lab - Exercise 8 (cont.) & 9 (Unknown Experiment) Unknowns given out |
| Fri., Mar. 21 | Check on cultures in lab from 12-2pm and refrigerate them if needed. |
| Mon., Mar. 24 | Lab - Exercise 9 (cont.) Work on unknown, Quiz 8 |
| Wed., Mar. 26 | Lab - Exercise 10 (ELISA) & Work on unknown |
| Mon., Mar. 31 | Lab Exam 2 (Exercises 6 – 10, 100 possible points) |
| Wed., Apr. 2 | Lab - Exercise 11 (Blood Typing) & Work on unknown, Quiz 9 |
| Mon., Apr. 7 | Lab - Exercise 12 (Transformation) & Work on unknown |
| Wed., Apr. 9 | Lab - Exercise 12 (PCR) & Work on unknown, Quiz 10 |
| Mon., Apr. 14 | Lab - Exercise 12 (Analysis) & Work on unknown, Last test run |
| Wed., Apr. 16 | Lab - Exercise 13 (Parasitology), Quiz 11 |
| Mon., Apr. 21 | Lab - Exercise 13 (cont.) |
| Wed., Apr. 23 | Lab - Practical Exam/ (Exercises 0 – 13, 100 possible points) |
| Fri., Apr. 25 | Lab - Unknown Reports Due (100 possible points) |

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SPRING 2014 CLASS SCHEDULE

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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
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Laboratory Teaching Assistants

| | | | | |
|----|---|-------------------------|--|--------------|
| 01 | { | Yvonne Pupilampu-Dove | y.pupilampudove@med.miami.edu | 305-243-1045 |
| | | Natasha Ward | n.ward2@med.miami.edu | 305-243-5626 |
| 02 | { | Timothy Plitnik | t.plitnik@med.miami.edu | 843-697-3239 |
| | | David Alvarez | d.alvarez19@umiami.edu | 954-494-4131 |
| 03 | { | Richard Hunte | r.hunte@med.miami.edu | 305-243-7893 |
| | | Amritanshu Joshi (Ashu) | a.joshi3@umiami.edu | 301-448-9960 |
| 04 | { | Connor Dwyer | c.dwyer2@med.miami.edu | 305-243-5626 |
| | | Katherine McManus | K.mcmanus1@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. 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% | |
| Lecture Exam #3 | 20% | 25% | 25% | |
| Lecture Exam #4 | 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

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|---|----------|
| 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 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) }