

FLORIDA ATLANTIC UNIVERSITY™

Undergraduate Programs—COURSE CHANGE REQUEST¹

UUPC APPROVAL _____
 UFS APPROVAL _____
 SCNS SUBMITTAL _____
 CONFIRMED _____
 BANNER POSTED _____
 CATALOG _____

DEPARTMENT: BIOLOGICAL SCIENCE	COLLEGE: COLLEGE OF SCIENCE
COURSE PREFIX AND NUMBER: MCB 2004 L	CURRENT COURSE TITLE: MICROBIOLOGY FOR HEALTH SERVICES LAB
CHANGE(S) ARE TO BE EFFECTIVE (LIST TERM): FALL 2013	TERMINATE COURSE (LIST FINAL ACTIVE TERM):
CHANGE TITLE TO: CHANGE PREFIX FROM: TO: CHANGE COURSE NO. FROM: TO: CHANGE CREDITS² FROM: TO: CHANGE GRADING FROM: TO: CHANGE WAC/GORDON RULE STATUS³ ADD* _____ REMOVE _____ CHANGE GENERAL EDUCATION REQUIREMENTS⁴ ADD* _____ REMOVE _____	CHANGE DESCRIPTION TO: CHANGE PREREQUISITES/MINIMUM GRADES TO*: EXISTING ONE SEMESTER OF BIOLOGY NEW PRE/REQ. BSC 1010,BSC 1010L or BSC 2085 ,BSC 2085L or BSC 2086, BSC 2086L EXISTING COREQUISITES: MCB 2004 CHANGE COREQUISITES TO*: NONE CHANGE REGISTRATION CONTROLS TO: *Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).
Attach syllabus for ANY changes to current course information. Should the requested change(s) cause this course to overlap any other FAU courses, please list them here.	
Please consult and list departments that might be affected by the change(s) and attach comments.	
Faculty contact, email and complete phone number: David Binninger; binninge@fau.edu; 561.297-3323	

Approved by: Department Chair: <u>M. Binninger</u> College Curriculum Chair: <u>J. T. Ay</u> College Dean: <u>OBryan</u> UUPC Chair: <u>J. I. My</u> Undergraduate Studies Dean: <u>E. Elsbeth</u> UFS President: _____ Provost: _____	Date: Feb. 27, 2013 3/1/13 3/20/13 3/22/13 3/27/13	<ol style="list-style-type: none"> 1. Syllabus must be attached; syllabus checklist recommended; see guidelines and checklist: www.fau.edu/academic/registrar/UUPCinfo 2. Review Provost Memorandum: Definition of a Credit Hour www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf 3. WAC approval (attach if necessary) 4. Gen. Ed. approval (attach if necessary) 5. Consent from affected departments (attach if necessary)
--	--	---

Email this form and syllabus to mjenning@fau.edu seven business days before the University Undergraduate Programs Committee meeting so that materials may be viewed on the UUPC website prior to the meeting.

Microbiology For Health Services Laboratory Syllabus

MCB 2004L-001 (80370) 1 credit

Fall Semester 2013

Dr. Daniela Scheurle
Biological Sciences/Building 1, Room 120
dscheurl@fau.edu (561) 297 2904
TA: Jacques Jean-Philippe email: jjeanph3@fau.edu
Office Hours: Wednesday 12pm-2pm SC 177

Class time and Room Number: Monday 1pm-2:50pm SC 108

Prerequisite: BSC 1010, BSC 1010L or BSC 2085, BSC 2085L or BSC 2086, BSC 2086L
Corequisites: None

Course Description: For pre-nursing students. This course teaches the application of fundamental techniques in the isolation, cultivation and identification of microorganisms.

Required Text: Symbiosis, Laboratory Manual (ISBN 1-256-21335-7), compiled by D.Scheurle.

Required Supplies: You must provide your own lab coat to be worn whenever you are in the laboratory. Lab coats can be purchased at any local uniform store for approximately \$25.00. You must have your lab coat by the 2nd week of lab. Goggles are **not** necessary.

General Safety Rules

- No Eating or Drinking in the Lab!
- Your lab coat must be worn while you are in the teaching laboratory.
- You must wear closed shoes! No open toes or open heels!
- Long hair must be neatly tied back.
- If you are injured—no matter how minor—report it to the teaching assistant. If necessary, you will be taken to receive medical attention.

Blackboard: The TAs and the lab coordinator will send out announcements and post additional material using Blackboard.

Exams and Grades

Your final course grade will be based on two multiple-choice exams, in class participation, and laboratory worksheets from your lab manual.

- 40% — Average of two multiple choice written exams
- 30% — Participation
- 30% — Laboratory reports and pre labs

Make-Up Exams

Students will be allowed to make up for missed exams only if the student has a verifiable excuse. All make up exams will be essay format.

Lab Reports

The lab manual contains a laboratory report following each lab assignment. Students are required to complete the lab report upon completion of the lab exercise and turn in the report at the beginning of the lab period following the completion of the lab assignment. **Lab reports turned in late will not be accepted!** Each lab report is worth 10 points.

Lab Participation Grade

Pre-Labs:

Each week you receive a number of questions to be completed and turned in **at the beginning of the next lab period**. These questions cover the laboratory material needed for the following lab period **Pre-Lab questions turned in late will not be accepted!** Each pre-lab is worth 10 points.

Lab Participation:

The major purpose of a laboratory course is to provide you with hands-on experience. Your participation will count as 30% your final grade. The major factors affecting this grade are attendance, punctuality, participation and preparedness. More specifically, each lab period is worth 10 points. If you miss a lab, you will receive a "0" for that lab. The following is a list of "behaviors" which will result in point deductions.

- Late for lab (class begins when the instructor begins).
- "Disappear" for extended periods of time.
- Leaving trash in the sink.
- Not cleaning up properly.
- Improper waste disposal.
- Failure to follow safety rules, negligence, horseplay, and/or abuse of equipment.
- Indications that you have not prepared for.
- Non-participation (your lab partner is doing all of the work).

Cheating and Plagiarism:

Any form of copying and turning in someone else's work as your own is considered academic dishonesty. If you are caught cheating or committing plagiarism, you will be referred to the lab coordinator and the Dean of Student Services for the College of Science. For more information see the Code of Academic Integrity in the University Regulations on the FAU website.

Code of Academic Integrity Policy Statement: Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information see University regulation 4.001.

Make-Up of Missed Labs

It is your responsibility to be prompt and ready for class. Labs can only be made up during the week in which they are scheduled. If you are going to miss or have already missed a lab you must notify the lab coordinator and /or your TA **within 24 hours** of the relevant lab. Ask the **lab coordinator** what other lab section you can attend to make up your missed lab. If you attend a make up lab without the lab coordinator's approval you will receive zero participation points for it. If you can not make up the missed lab during the week in which it is scheduled the lab coordinator will give you a **written assignment** which will cover quiz and participation points. Review questions

and lab reports that were due the day you missed the lab have to be turned in to the **lab coordinator the same week**. You are allowed to miss two labs for which justifiable and verifiable reason(s) can be documented in writing. If you miss more than two labs you receive zero points for each additional missed lab. So be aware that you might lower your final grade by one full letter if you do not make up the two allowed missed labs or if you miss two more labs.

Religious Accommodations:

Students who wish to be excused from coursework, class activities or examinations must notify the instructor in advance of their intention to participate in religious observation and request an excused absence

Accommodations for Students with Disabilities:

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) located in Boca Raton - SU 133 (561-297-3880), in Davie - MOD I (954-236-1222), in Jupiter - SR 117 (561-799-8585), or at the Treasure Coast - CO 128 (772-873-3305), and follow all OSD procedures.

Grading Scale

93-100	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
66-72	C-
62-65	D+
58-61	D
55-57	D-
>55	F

MCB 2004L Health Science Microbiology **Fall 2012 Laboratory Exercise**

Week of	Topic	Assignments Due
Week 1	Introduction. Discussion of Lab Safety, Waste Requirements, and Demonstration of Aseptic Techniques. Page 1(Exercise 1): Use and Care of the Microscope	None
Week 2	Page 23 (Exercise 2): Microbes in the Environment (Point 1 and 2 only in theory) – Part I Page 31 (Exercise 3): Transfer of Bacteria: Aseptic Technique – Part I	Pre-lab 2, 3 Lab Report 1
Week 3	Exercise 2: Microbes in the Environment – Part II Exercise 3: Transfer of Bacteria: Aseptic Technique – Part II Page 11 (Exercise 4): Preparation of Smears and Simple Staining	Pre-lab 4
Week 4	Page 17 (Exercise 5): Gram Staining	Pre-lab 5 and 6 Lab Report 2, 3

	Page 41 (Exercise 6): Special Media for Isolating Bacteria – Part I	
Week 5	Exercise 6: Special Media for Isolating Bacteria – Part II Page 45 (Exercise 7) Carbohydrate Catabolism – Part I Page 51 (Exercise 8): Fermentation of Carbohydrates – Part I	Pre-lab 7, 8 Lab Report 4, 5
Week 6	Exercise 7 Carbohydrate Catabolism – Part II Exercise 8: Fermentation of Carbohydrates – Part II Page 59 (Exercise 9): Determination of Bacterial Growth Curve (see appendices) (Dry Lab) Page 65 (Exercise 10): Other Influences on Microbial Growth (Effect of pH only!) – Part I Page 73 (Exercise 11): Chemical methods of Control: Disinfectants and Antiseptics – Part I Page 77 (Exercise 12): Chemical Methods of Control: Antimicrobial Drugs – Part I	Pre-lab 9, 10, 11, 12 Lab Report 6
Week 7	Exercise 10: Other Influences on Microbial Growth (Effect of pH only!) – Part II Exercise 11: Chemical methods of Control: Disinfectants and Antiseptics – Part II Exercise 12: Chemical Methods of Control: Antimicrobial Drugs – Part II Review for Exam I	Lab Report 7, 8, 9
Week 8	Written Lab Exam I (Exercises 1-9 and appendices) [Note: Drop Deadline is October 14th.]	Lab Report 10-12
Week 9	Page 85 (Exercise 13): Effectiveness of Hand Scrubbing – Part I Page 89 (Exercise 14): Epidemiology – Part I	Pre-lab 13, 14
Week 10	Exercise 13: Effectiveness of Hand Scrubbing – Part II Exercise 14: Epidemiology – Part II Page 97 (Exercise 15): Blood Group Determination: Slide Agglutination Page 103 (Exercise 16): Bacteria of the Skin – Part I	Pre-lab 15, 16
Week 11	Exercise 16: Bacteria of the Skin – Part II Page 107 (Exercise 17): Bacteria of the Respiratory Tract – Part I (Throat Culture Only!) Page 111 (Exercise 18): Bacteria of the Mouth – Part I	Pre-lab 17, 18 Lab Report 13-15
Week 12	Exercise 17: Bacteria of the Respiratory Tract – Part II Exercise 18: Bacteria of the Mouth – Part II Review for Exam II – Part I	Lab Report 16
Week 13	Written Lab Exam II (Exercises 10-18)	Lab Report 17, 18