

MCB 2010L MICROBIOLOGY LABORATORY SCHEDULE Summer 2017 (2016/17
Term III Session II) **TEXT: MICROBIOLOGY LABORATORY MANUAL 3rd Edition;**

DATE	Lab Period	Obenauf & Finazzo LABORATORY PROCEDURES (exercises)	DRAW OR RECORD RESULTS OF	LAB REPORTS DUE
5/15 M	1	Lab Overview & Lab Safety Rules 1* Basic Techniques Use of the Microscope 5 The Microbial World: Protozoans 7 The Microbial World: Motility: Hanging Drop	Microscope Protozoans Hanging Drop	
5/16 T	2	4 The Microbial World: Microbial Phototrophs 6 The Microbial World: Fungi 2 Basic Techniques: Aseptic Techniques	Phototrophs Fungi	Microscope Protozoans Hanging Drop
5/17 W	3	☞ Get Slide Boxes (one per team of 2 – keep in drawer) 8 Staining: Simple Staining & Smear Preparation 9 Staining: Negative Stain	Simple Stain Negative Stain Aseptic Technique	Phototrophs Fungi
5/18 R	4	10 Staining: Capsule Stain 11 Staining: Gram Stain	Gram Stain Capsule Stain	Aseptic Simple Stain Negative Stain
5/22 M	5	12 Staining: Acid Fast Stain 13 Staining: Endospore Stain 14 Media: Blood Agar	Acid Fast Endospore	Capsule Stain Gram Stain
5/23 T	6	*WRITTEN EXAM 1* <i>(on lab periods 1-5)</i> 15 Media: Mannitol Salt Agar (MSA) 16 Media: Eosin Methylene Blue (EMB) 17 Media: MacConkey Agar	Blood Agar	Acid Fast Endospore
5/24 W	7	18 Media: Evaluation of Media 20 Growth: Osmotic Pressure & Growth	MSA MacConkey EMB	Blood Agar
5/25 R	8	19 Growth: Standard Plate Count 21 Growth: Aerotolerance	Eval Media Osmotic Pressure	MSA EMB MacConkey
5/29 M		Memorial Day Holiday College Closed		
5/30 T	9	25 Control of Growth: Antimicrobial Susceptibility 26 Control of Growth: Hand Washing 24 Control of Growth: UV Light	Std Plate Count Aerotolerance	Eval Media Osmotic Pressure
5/31 W	10	27 Diagnostic Genetics: DNA Fingerprinting 28 Applied Genetics: Bacterial Transformation	Hand Washing Susceptibility UV Light	Std Plate Count Aerotolerance
6/1 R	11	\$ Review for Midterm Practical Exam <i>students may attend review sessions in other lab times as guests</i>	DNA Fingerprinting Transformation	Hand Washing Susceptibility UV Light

6/5 M	12	<p>⇒ MIDTERM PRACTICAL EXAM <i>(on lab periods 1 – 10)</i></p> <p>⇒ MIDTERM WRITTEN EXAM <i>(on lab periods 6 – 10)</i></p>		Transformation DNA Fingerprinting
6/6 T	13	<p>29 Microbes & Disease: Parasitic Protozoans</p> <p>30 Microbes & Disease: Parasitic Worms</p> <p>31 Microbes & Disease: Vectors</p> <p>3 Basic Techniques: Isolation Streak Plate</p>	Parasitic Protists Parasitic Worms Vectors	
6/7 W	14	<p>32 Diagnostic Immunology: Immunoprecipitation</p> <p>33 Diagnostic Immunology: Passive Agglutination</p> <p>47 Bacterial Unknowns</p>	Isolation Streak Plate Passive Agglutination	Parasitic Protists Parasitic Worms Vectors
6/8 R	15	<p>34 Multisystems: Enterotube II</p> <p>35 Environmental Microbiology: Soil Microbes</p> <p>46 "Known" bacteria for Biochemical testing</p>	Immunoprecipitation Isolate Unknown	Isolation Streak Plate Passive Agglutination
6/12 M	16	<p>40 Biochemical Testing: Phenol Red (Sugar) Broth</p> <p>41 Biochemical Testing: Triple Sugar Iron Agar (TSI)</p>	Enterotube Soil	Immunoprecipitation
6/13 T	17	<p>Written Exam 3 <i>(on lab periods 13-16)</i></p> <p>22 Oxygen Metabolism: Catalase Test</p> <p>23 Oxygen Metabolism: Oxidase Test</p> <p>42 Biochemical Testing: Litmus Milk</p>	Soil Phenol Red TSI Catalase Oxidase	Soil
6/14 W	18	<p>IMViC Testing</p> <p>43 Biochemical Testing: SIM Medium</p> <p>43 Biochemical Testing: MR and VP tests</p> <p>43 Biochemical Testing: Simmon's Citrate Agar</p>	Litmus (if complete)	Soil Phenol Red TSI Catalase Oxidase
6/15 R	19	<p>36 Biochemical / Hydrolytic: DNase Test</p> <p>38 Biochemical / Hydrolytic: Starch Test</p> <p>39 Biochemical / Hydrolytic: Casease Test</p> <p>37 Biochemical / Hydrolytic: Gelatinase</p>	IMViC tests	Soil (final due date) Litmus if complete
6/19 M	20	<p>44 Biochemical Testing: Urease Test</p> <p>45 Biochemical Testing: Nitrate Reduction</p>	DNase Starch Casease Gelatinase	IMViC Litmus (final due date)
6/20 T	21	<p>* Review for Final Practical Exam and complete unknown identification project <i>students may attend review sessions in other lab times as guests</i></p>	Urease Nitrate	DNase Starch Casease Gelatinase
6/21		Lab Closed for Final Exam Setup		
6/22 R	22	<p>⇒ FINAL PRACTICAL EXAM <i>(on lab periods 18 – 21)</i></p> <p>⇒ FINAL WRITTEN EXAM <i>(on lab periods 13– 21)</i></p>		

MCB 2010L MICROBIOLOGY LABORATORY SCHEDULE Fall 2016 (2016/17 Term I)
TEXT: *MICROBIOLOGY LABORATORY MANUAL 3rd* Edition; Obenauf & Finazzo

*if you are using the 2nd edition of the lab manual, the exercise numbers will be different – use the exercise titles