

BIOL 3702 LABORATORY SCHEDULE – FALL 2021 SEMESTER

(Subject to change due to unanticipated events. Any changes will be announced and students shall be held harmless to the extent possible.)

NOTE: The highlighted underlined links in this PDF are not functional. Use the following Lecture Schedule link provided here (<http://crcooper01.people.yosu.edu/lab-fall-2021-schedule.html>) to access the highlighted links.

| Date | Assignments |
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| Mon., 30 August and Tue., 31 August | NO SCHEDULED LAB ACTIVITIES TODAY Laboratory is Closed |
| Wed., 1 September and Thu., 2 September | Introduction to the Microbiology Laboratory [PDF] (Video Lecture) Assignments (via CONNECT): <ul style="list-style-type: none"> • Safety Quiz • Liability Waiver • Virtual Lab Tutorial [Bonus Points] • Virtual Lab Safety (Hand Washing) • Virtual Lab Safety (Personal) • Pre-Lab Quiz #1 (Microscopy) (Deadline: prior to the start of your next corresponding lab section) |
| Fri., 3 September | NO SCHEDULED LAB ACTIVITIES TODAY Laboratory is Closed |
| Sat., 4 September and Sun., 5 September | Weekend – Laboratory is Closed |
| Mon., 6 September | Holiday – University Closed |
| Tue., 7 September | NO SCHEDULED LAB ACTIVITIES TODAY Laboratory is Closed Deadline (by 8:00 AM): Liability Waiver |
| Wed., 8 September and Thu., 9 September | Bright-Field Microscopy [PDF] (Video Lecture) Exercise: The Bright-Field Microscope: Its Proper Use and Care Assignments (via CONNECT): <ul style="list-style-type: none"> • Virtual Lab Brightfield Microscopy • Virtual Lab Microscopy - Oil Immersion |

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| <p>Fri., 10 September</p> | <p>Open Lab: 8:00 AM – Noon ONLY Assignment (via CONNECT): Pre-Lab Quiz #2 (Aseptic Technique) (Deadline: prior to the start of your next corresponding lab section) Deadline (by Noon):</p> <ul style="list-style-type: none"> • Safety Quiz • Virtual Lab Tutorial • Virtual Lab Safety (Hand Washing) Exercise • Virtual Lab Safety (Personal) Exercise |
| <p>Sat., 11 September and Sun., 12 September</p> | <p>Weekend – Laboratory is Closed</p> |
| <p>Mon., 13 September through Thu., 16 September</p> | <p>Aseptic Transfer and Streak Plate Techniques [PDF] (Video Lecture) Exercises:</p> <ul style="list-style-type: none"> • Basic Culture Technique: Aseptic Transfer • Basic Culture Techniques: Streak Plate <p>Skills Test I: Microscopy Proficiency</p> |
| <p>Fri., 17 September</p> | <p>Open Lab: 8:00 AM – Noon ONLY Assignment (via CONNECT): Pre-Lab Quiz #3 (Simple Staining) (Deadline: prior to the start of your next corresponding lab section) Deadline (by Noon):</p> <ul style="list-style-type: none"> • Microscopy Lab Report (submit via Blackboard) • Virtual Lab – Brightfield Microscopy • Virtual Lab –Microscopy – Oil Immersion |
| <p>Sat., 18 September and Sun., 19 September</p> | <p>Weekend – Laboratory is Closed</p> |
| <p>Mon., 20 September through Thu., 23 September</p> | <p>Smears and Simple Staining [PDF] (Video Lecture) Virtual Lab Bacterial Smear Exercise: Bacterial Smears and Simple Staining Skills Test II: Streak Plate Proficiency</p> |
| <p>Fri., 24 September</p> | <p>Open Lab: 8:00 AM – Noon ONLY Assignment (via CONNECT): Pre-Lab Quiz #4 (Gram Stain) (Deadline: prior to the start of your next corresponding lab section) Deadline (Fri. by Noon): Skills Test I (submit via Blackboard)</p> |

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| Sat., 25 September and Sun., 26 September | Weekend – Laboratory is Closed |
| Mon., 27 September through Thu., 30 September | Gram Stain [PDF] (Video Lecture) Exercise: Differential Staining – The Gram Stain |
| Fri., 1 October | Open Lab: 8:00 AM – Noon ONLY Assignments (via CONNECT): <ul style="list-style-type: none"> • Virtual Lab Microbial Growth – Oxygen Requirement • Pre-Lab Quiz #5 (Bacterial Growth Responses) (Deadline: prior to the start of your next corresponding lab section) Deadline (Fri. by Noon): <ul style="list-style-type: none"> • Skills Test II (submit via Blackboard) • Virtual Lab –Bacterial Smear |
| Sat., 2 October and Sun., 3 October | Weekend – Laboratory is Closed |
| Mon., 4 October through Thu., 7 October | Bacterial Growth Responses [PDF] (Video Lecture) Virtual Lab Microbial Growth – Oxygen Requirement Exercises: <ul style="list-style-type: none"> • Selective and Differential Media • Effect of Osmotic Pressure on Microbial Growth • The Nitrate Test Skills Test III: Gram Stain Unknown Assignment (via CONNECT): |
| Fri., 8 October | Open Lab: 8:00 AM – Noon ONLY Assignment (via CONNECT): Pre-Lab Quiz #6 (Microbial Numbers) (Deadline: prior to the start of your next corresponding lab section) |
| Sat., 9 October and Sun., 10 October | Weekend – Laboratory is Closed |

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| <p>Mon., 11 October through Thu., 14 October</p> | <p>Determination of Microbial Numbers [PDF] (Video Lecture) Exercise: Pour Plate Counts</p> |
| <p>Fri., 15 October</p> | <p>Open Lab: 8:00 AM – Noon ONLY Assignment (via CONNECT): Pre-Lab Quiz #7 (Susceptibility Testing) (Deadline: prior to the start of your next corresponding lab section) Deadline (Fri. by Noon):</p> <ul style="list-style-type: none"> • Skills Test III (submit via Blackboard) • Virtual Lab –Microbial Growth – Oxygen Requirement • Instructor’s choice of laboratory reports – to be announced |
| <p>Sat., 16 October and Sun., 17 October</p> | <p>Weekend – Laboratory is Closed</p> |
| <p>Mon., 18 October through Thu., 21 October</p> | <p>Kirby-Bauer Susceptibility Testing [PDF] (Video Lecture) Exercise: Antibiotic Susceptibility (Kirby-Bauer Test) Exercise Addendum: Antibiotic Susceptibility Chart Assignment (via CONNECT): Virtual Lab Microbial Control - Antiseptics</p> |
| <p>Fri., 22 October</p> | <p>Open Lab: 8:00 AM – Noon ONLY Assignment (via CONNECT): Pre-Lab Quiz #8 (Survey of the Cocci) (Deadline: prior to the start of your next corresponding lab section)</p> |
| <p>Sat., 23 October and Sun., 24 October</p> | <p>Weekend – Laboratory is Closed</p> |
| <p>Mon., 25 October through Thu., 28 October</p> | <p>A Brief Survey of Selected Cocci: Background Discussion [PDF] A Survey of Cocci Diagnostics [PDF] (Video Lecture) Exercises:</p> <ul style="list-style-type: none"> • Hemolysis • Oxidase Test • Gelatinase Assay • DNase Activity • Coagulase Test • Catalase Test • Hydrolysis of Esculin and L-Pyroglutamic Acid-β-Naphthylamide • Antibiotic Sensitivity |

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| <p>Fri., 29 October</p> | <p>Open Lab: 8:00 AM – Noon ONLY Assignment (via CONNECT): Pre-Lab Quiz #9 (Diagnostic Media I) (Deadline: prior to the start of your next corresponding lab section) Deadline (Fri. by Noon): Virtual Lab – Microbial Control - Antiseptics</p> |
| <p>Sat., 30 October and Sun., 31 October</p> | <p>Weekend – Laboratory is Closed</p> |
| <p>Mon., 1 November through Thu., 4 November</p> | <p>A Survey of Selected Bacilli: Background Discussion [PDF] Survey of the Bacilli: Diagnostic Media I [PDF] (Video Lecture) Exercises: <ul style="list-style-type: none"> • Carbohydrate Fermentation • Indole Test • Sulfide, Indole, Motility Test • Methyl Red-Voges Proskauer Tests • Citrate Utilization Test Assignment (via CONNECT): Virtual Lab Bacterial Unknown [NOTE: Students are assigned the particular exercise corresponding to the last digit of their Y number]</p> |
| <p>Fri., 5 November</p> | <p>Open Lab: 8:00 AM – Noon ONLY Assignment (via CONNECT): Pre-Lab Quiz #10 (Diagnostic Media II) (Deadline: prior to the start of your next corresponding lab section)</p> |
| <p>Sat., 6 November and Sun., 7 November</p> | <p>Weekend – Laboratory is Closed</p> |
| <p>Mon., 8 November and Tue., 9 November</p> | <p>Survey of the Bacilli: Diagnostic Media II [PDF] (Video Lecture) Exercises: <ul style="list-style-type: none"> • Urease Test • Triple Sugar Iron Test • Decarboxylation Tests • Phenylalanine Deamination Test • Motility Test </p> |
| <p>Wed., 10 November</p> | <p>Open Lab: 8:00 AM – 4:00 PM ONLY</p> |
| <p>Thu., 11 November</p> | <p>Holiday – University Closed</p> |
| <p>Fri., 12 November</p> | <p>Open Lab: 8:00 AM – 12:00 PM ONLY</p> |

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| Sat., 13 November and Sun., 14 November | Weekend – Laboratory is Closed |
| Mon., 15 November through Thu., 18 November | <p>The Bacterial Unknown Project [PDF] (Skills Test IV: Bacterial Unknowns; Video Lecture)</p> <p>Charts of Biochemical and Diagnostic Features:</p> <ul style="list-style-type: none"> • Selected Gram-Negative Bacilli Chart (PDF) • Selected Gram-Positive Bacilli Chart (PDF) • Selected Cocci Chart (PDF) |
| Fri., 19 November | <p>Open Lab: 8:00 AM – 12:00 PM ONLY</p> <p>Deadline (Fri. by Noon):</p> <ul style="list-style-type: none"> • Instructor's choice of laboratory reports – to be announced • Virtual Lab – Bacterial Unknown |
| Sat., 20 November | Open Lab: 9:00 AM – Noon ONLY |
| Sun., 21 November | Laboratory is Closed |
| Mon., 22 November | Open Lab: 8:00 AM – 2:00 PM ONLY |
| Tue., 23 November | |
| Wed., 24 November | No Laboratory Today – University is Open, But Laboratory is Closed |
| Thu., 25 November | Thanksgiving Holiday – Laboratory is Closed |
| Fri., 26 November | Thanksgiving Holiday – Laboratory is Closed |
| Sat., 27 November and Sun., 28 November | Weekend – Laboratory is Closed |
| Mon., 29 November through Thu., 2 December | Bacterial Unknown Project (cont.) |
| Fri., 3 December | Open Lab: 8:00 AM – Noon ONLY |
| Sat., 4 December | Open Lab: 9:00 AM – Noon ONLY |
| Sun., 5 December | Laboratory is Closed |

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| Mon., 6 December through Thu., 9 December | Bacterial Unknown Project (cont.) |
| Fri., 10 December | Open Lab: 8:00 AM – Noon ONLY Deadline (by Noon): Skills Test IV |
| Sat., 11 December and Sun., 12 December | Weekend – Laboratory is Closed |
| Mon., 13 December through Fri., 17 December | Laboratory is Closed for the Semester |

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