Syllabus for MCB Microbiology Labs Spring 2026

Contact Information

Lab Coordinator and TA supervisor

Kevin Lee, PhD

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Office: Room 1045, MCS Building

Office Hours: by appointment

Curriculum Coordinator

Monika Oli, PhD

e-Mail: moli@ufl.edu

Office: Room 1049, MCS Building

Office Hours: by appointment

TAs for each section will be announced on the first day of class.

Please contact your TAs for any section-specific questions! Contact Dr. Lee anytime if you have an unresolved problem with your TAs or specific concerns

Course time and location

Synchronous during scheduled class times

Labs start during the first week of classes. Labs usually last for all 3 periods! Fall 2025 labs will start Monday January 12th.

Mandatory Personal Protective Equipment

During each in-person lab period, students are required to always wear a lab coat and optional goggles. Both will be provided to the student and stored in a personal, ziplock bag to be used throughout the semester. You must also wear gloves for many experiments. Closed-toe shoes are mandatory, and we strongly recommend wearing long pants or long sweatpants. NO eating, drinking, chewing gum etc. is allowed in the laboratories. Not following these instructions will result in dismissal from class.

Please contact your instructor or the DRC if you have any concerns about your health and wellbeing in the microbiology lab DRC@ufsa.ufl.edu

Textbooks and Required readings

NO LABMANUAL is required. All information, modules and procedures will be posted in CANVAS

WELCOME!

Welcome to the Microbiology Laboratory. In this course, you will learn techniques used in (micro)biology labs and you will realize how microbes affect all aspects of our lives, every day. Many of you will be familiar with some of the topics covered in the lab exercises, but hands-on experience is invaluable to really understand many of the techniques taught. Your TAs and I will work closely with you to ensure that you have a good grasp of the topics and methods covered.

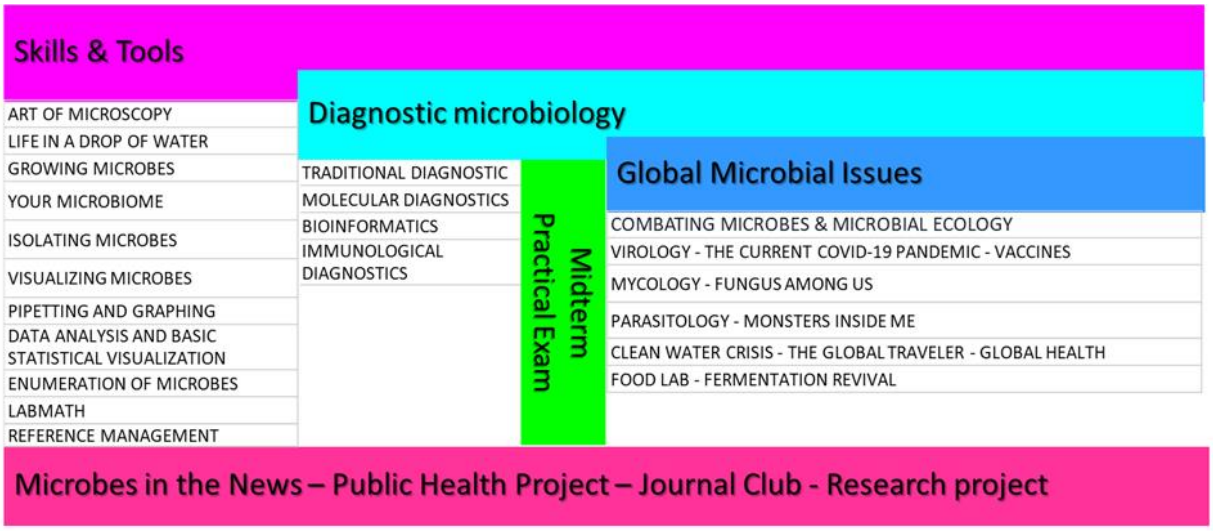
We have incorporated several projects and student-initiated activities into the syllabus as well as student presentations to provide you with a variety of learning experiences. Our ultimate goal is for you to complete the semester with the feeling that microbes are important in every aspect of our lives – and with the notion that you have learned something you can use for the rest of your life and not just to get an A!

I would like to emphasize that we are here to help you. Your TAs and I hope to see you all during open lab or our office hours (or by appointment), especially if you have questions or need assistance.

Disclaimer: during the semester we may have to make adjustments to the syllabus, grading, deadlines or protocols. This is done for the benefit of the students to improve learning and adapting to the current situation. Please check with me or your GTA if you feel there is a discrepancy between the syllabus and your expectations.

Course Overview

This is an undergraduate laboratory course to learn and explore a variety of microbiological techniques, skills and concepts. Topics that will be covered include visualization and enumeration of microbes, traditional, molecular and immunological diagnostic techniques, basic techniques used in parasitology, virology and mycology. Students will generate, analyze and interpret data, design and conduct a small research project and gain experience in technical writing and presentation skills. You will gain awareness about the ubiquity and diversity of microbes and the good and bad roles they play in your everyday life.



WHAT YOU WILL KNOW AT THE END OF THE COURSE

A student successfully completing basic microbiology lab course will demonstrate ability to use, explain and practice…

LABORATORY SAFETY

1. Microbiological procedure, including, proper lab etiquette (hand washing, disinfecting lab benches and equipment), follow methods for aseptic transfer, reporting all spills, understanding OSHA's Bloodborne Pathogen Standard, proper disposal of different types of waste, following good lab practice, including returning materials to proper locations, proper care and handling of equipment

2. Protective procedures, including tying long hair back, wearing personal protective equipment (lab coats, gloves when needed, closed-toed shoes); No eating or drinking in the laboratory

3. Emergency procedures, including, locating and properly using emergency equipment, reporting all injuries immediately to the instructor

LABORATORY SKILLS

Even though lab experiments will be conducted at home, you will still actively perform a number of important laboratory skills and activities.

1. **Use a compound bright field light microscope to view and interpret slides, properly prepare slides and various stains to visualize microbes and** follow experimental protocols

2. **Use pipettes** and understand the correct volume and pipette tips to use for each experiment, comprehend accuracy and precision to have a good pipetting technique and understand dilutions

3. **Properly use aseptic techniques**, to obtain and maintain a pure culture

4. **Identify unknown organisms** by **using online resources and databases, use molecular simulations to use molecular techniques for DNA analysis**

5. **Estimate the number of microbes using dilution techniques, predict how various growth conditions affect the number of life cells, interpret growth curves**

6. Perform and interpret a disk diffusion assay and understand how to test for the effectiveness of a variety antimicrobial agents

7. Simulate and interpret an ELISA assay and know techniques how to determine antibody prevalence in a patient's immune response to pathogens;

8. Be able to describe the problem of global water contamination, and understand the prevalence of global occurrence of parasites, perform and interpret a fecal float and conduct water purification methods to prevent water born infections

9. Get a taste how **microbes contribute to the production of various foods and drinks** and be aware of the importance of a **healthy microbiome**

LABORATORY THINKING SKILLS

1. **Understand and apply the scientific method**, including formulation of a clear, answerable question and hypothesis; research of peer reviewed scientific literature, conduct and execute appropriate experiments with correct controls, evaluate, analyze and interpret results
2. **Analytical skills**, including collection and organizing data in a spreadsheet, analyze and presenting data in an appropriate from (graphs, tables, figures, or descriptive paragraphs), assessing the validity of the data (means, standard deviation, significance) and drawing appropriate conclusions based on the results
3. **Communication skills**, including preparation of presentations of current topics in microbiology, developing educational materials and presenting lab results or findings to your peers
4. **"Big picture" skills**, including understanding how microbes play a beneficial and detrimental role in our lives and the environment. Students should be able to read and interpret current news and popular literature relating to microbiology and evaluate the scientific merit of the information presented. All students should comprehend that science is not "black and white" and that new scientific findings may alter the interpretation of older dogmas. Finally, students should get a glimpse of how microbes have always shaped history and affect our everyday life in a myriad of ways.

VIDEO CHANNEL

Over the years we created numerous videos in house that will help you significantly to perform the techniques you are learning in the lab. The UF Microbiology channel is a collection of tutorials, visual aids and educational videos to help spark the interest in microbiology and to teach students the basic skills. All videos were produced in house and are copy-written by Dr. Monika Oli, faculty at UF.
The videos are used to teach MCB2000L, 3020L and 3023L in the Department of Microbiology and Cell Science at UF.

QUIZLET FLASH CARDS

To help you learn this new language of "microbiology" we created a Quizlet for each module.
https://quizlet.com/class/2282683/
You will be prompted for each set of definitions in the different modules. We hope that helps you learn! Quizzes are largely based on the quizlets terms and definitions.

USE OF ARTIFICIAL INTELLIGENCE IN ACADEMIC WORK

As a class, we will be exploring the use of artificial intelligence (AI) as a tool to facilitate idea generation, organization, and research. AI-powered tools, such as language generators and citation managers, can be useful for creating outlines, definitions, and even assisting with literature reviews. However, I want to emphasize that AI should be used as a supplement to, not a replacement for, human critical thinking and analysis.

When using AI, it's essential to employ a critical eye and not rely solely on its output. While AI can provide suggestions and ideas, it is not infallible and can produce errors or incomplete information. To ensure the accuracy and integrity of your work, please:

- Verify the credibility and reliability of AI-generated sources
- Use AI as a starting point for your research and analysis, not a finish line
- Complement AI output with your own critical thinking and analysis
- Properly cite and acknowledge AI-generated content

To support your academic work, I encourage you to use AI tools for tasks such as creating outlines, organizing research papers, and formatting citations. However, avoid using AI to answer questions or complete assignments that require original thought or critical analysis. Instead, use AI to prepare for class discussions, brainstorm ideas, and refine your understanding of complex concepts.

By using AI thoughtfully and responsibly, you will enhance your productivity, creativity, and academic success. If you have any questions or concerns about the use of AI in this course, please don't hesitate to reach out to me.

- ***Make sure you always cite and acknowledge AI-generated content properly.***

Prohibited Use Cases:

- Using AI to complete assignments or projects without human critical analysis.
- Relying solely on AI-generated content for research or analysis.
- Presenting AI-generated content as original work without proper citation.

By following these guidelines, you will ensure that AI is used as a constructive and responsible tool to support your academic success.

GETTING STARTED

Course Correspondence as well as lab exercises, assignments and exams will be available via eLearning Canvas Website http://lss.at.ufl.edu/. If you need any help with the eLearning system please visit the eLearning Help page at https://lss.at.ufl.edu/help.shtml. You may also contact the UF help desk at 352-392-HELP, Option 2.

Your section specific site is maintained and administered by your TAs. You are responsible for the material posted in your section. I do not check email in the individual sections!

Furthermore:

1. All students should **check out the "Science Daily –** Infectious Disease" website http://www.sciencedaily.com/news/health_medicine/infectious_diseases/ Some class discussions will be based on current news and you may use the topics for your public health projects

2. Like the UF Microbiology and Cell Science & ASM Gators @UFMicrobiology page for interesting news and current updates; the postings can be part of the class material! **http://www.facebook.com/UFMicrobiology**

you can use the topics for your public health projects

3. Please Remember to check the **Announcements** and **Mail** each day in Canvas. "I did not know about the assignment, deadline…" is NOT an accepted excuse. For this course there are two Canvas sites for the course. Your instructor will have his/her own Canvas webpage where section specific information will be posted.

4. Make sure you have a functional **laptop or computer**. We often will do computer-based exercises. Have your cell-phone camera to take pictures of results and observations and your lab results. You will need MS office with Word, Excel and PPt or equivalent. Make sure you have VPN installed: http://www.uflib.ufl.edu/login/vpn.html.

5. All assignments, projects and reports are expected to be submitted electronically through Canvas. Each assignment is processed through **Turnitin.com** and as such is checked for plagiarism.

7. **Attendance is mandatory for the whole class period.** Each day new techniques are taught, and it is easy to fall behind! Coming late to lab will affect your attendance.

8. Got a Question? Please come see us - we are here to help!

Expectations of the students

- **Come to EACH Lab session** (unless you are in the UFO section or if you are sick! - provide a doctor's not ASAP) – classes start the first week of the semester
- Read the **Syllabus** to know your deadlines and exam schedules. Your TA however will announce specific days for your own section so **PAY ATTENTION!**
- As student, you are expected to fully **engage yourself** in all aspects of the class – take learning in your owns hands an don't be a passive participant
- You are expected to **COME PREPARED** to class and have read the assigned reading material and especially watched the introductory videos.
- You are expected to **FOLLOW OUR LAB ETIQUETTE** at all times. Safety First!
- We expect you to **be creative and come up with your own ideas** for many of the activities and projects. Enjoy the opportunity!
- These are **not cookie-cutter labs** and there may not be one correct answer, most of the time you don't lose points if you don't get the exact result!
- Most importantly: **ENJOY THE LAB and appreciate your microbes!**

SUMMARY OF LAB MODULES, VIDEOS AND OTHER RESOURCES

In this lab we cover A LOT of material and provide you with lots of resources to succeed. To make it easier for you to have all resources in one place, this is a link to all lab modules, videos and tutorials. Please note that this is an abbreviated manual and is subject to changes and updates for the coming semester. More information is provided in canvas and the module handouts.

STUDENT EVALUATION

Student grades consist of a variety of activities, including quizzes, exams, presentations, projects, attendance and participation. FOLLOWING INSTRUCTIONS - IS A MUST as well as CREATIVITY WILL BE REWARDED. This breakdown maybe subject to change by your instructor!

Learning evaluation for labs

- Attendance (coming late will affect attendance) and submission of training certificates (10%)
- Electronic Lab notebook ELN (15%)
- Quizzes (10%) - based on corresponding quizlets unless otherwise indicated by your instructor
- Discussions (10%)
- Assignments (15%)
    - Data analysis
    - Quantitative skills
    - Bioinformatics
    - Endnote – reference management
    - Etc.
- Public health project (10%) - teams
- Student research projects (10%) - teams
- Midterm exam – practical exam maybe some oral exam parts, 'hands on activity', interpretation of results, data interpretation and analysis (graphing, lab- & medical math), bioinformatics etc. – case study (you can use a cheat sheet for the exam) (10%)
- Final comprehensive knowledge quiz, in person during finals week (10%)

Extra credit (no more than 5%)

With the discretion of your TA you may get some extra credit which can include

- Participation in in class or online discussion
- Bringing/sharing environmental samples for wet mount examination
- Bringing/sharing fecal samples with potential parasite eggs for the fecal float (parasitology) lab
- Bringing/sharing fermented food products for the food lab
- Sharing interesting news and articles about microbiology with your class

Extra Credit Opportunities will be available throughout the semester at the discretion of your TA.

Final Exam - optional

Your optional final exam is determined by your TA and may replace certain % points from another category

GRADING AND FINAL GRADES

We don't curve and the grading scale will not be adjusted based on class performance. After ISIS allows you to view your final grade. You have 2 weeks to challenge your grade and request a change of grade by contacting Dr. Oli (moli@ufl.edu)

For the course will be based this grading scale. *For more information, see:* See the current UF grading policies for more information.

Grading Scale

Percent	Grade	Grade Points
92	A	4.00
90	A-	3.67
88	B+	3.33
82	B	3.00
80	B-	2.67
78	C+	2.33
72	C	2.00
70	C-	1.67
68	D+	1.33
62	D	1.00
60	D-	0.67
<60	E	0.00

Makeup Policy – Late Work

We will work with you if you provide us with a UF accepted excuse for your absence during labs or the exam.

https://catalog.ufl.edu/ugrad/current/regulations/info /attendance.aspx. If you have 3 or more unexcused absence this maybe reason for a failing grade in the class.
10% will be deducted for every 24h of late work submission.

Biosafety in the Microbiology Laboratory

We are regulated and inspected annually by the UF Environmental Health and Safety Department, all activities in the microbiology lab are approved by UF EH&S. We follow their guidelines - and you follow our instructions - to prevent any accidents and problems with contaminations. For more information about the regulations go to:

http://www.ehs.ufl.edu/Lab/EHSintro.htm

Safety training is mandatory for the class and more information is provided in your canvas section

Underlying medical conditions

If you have any underlying medical conditions which can affect your **immune system** or make you more susceptible to infectious disease, you must inform your TA and consult with your physician before working in the microbiology laboratory.

For students and TAs with preexisting conditions, including pregnancy, taking immunosuppressive drugs, or who have other medical conditions (e.g., diabetes, immune system disorder) that might necessitate special precautions and it is recommended that they get medical clearance from the infirmary.

http://shcc.ufl.edu/

If you notice any unusual symptoms or of any spills or accidents occur, contact your TA immediately.

Please come and contact me, Dr. Oli, immediately if you have any concerns (moli@ufl.edu)

Future teaching assistants for micro labs and letter of recommendation

You may request a letter of recommendation only if you attend the section I am teaching. I will also write recommendation letters for most students who sign up to be TA the microbiology laboratories. To sign up to TA after you have taken the class, fill out the information in the online app http://microcell.ufl.edu/TA_app/ . The spots for TAs are limited and will be filled on a first come first served basis.

Other UF policies

A link to academic policies and resources: https://go.ufl.edu/syllabuspolicies

Our class sessions may be audio-visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image agree to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

ACADEMIC HONESTY

Honor code

You are required to abide by the Student Honor Code. Any violation of the academic integrity expected of you will result in a minimum academic sanction of **a failing grade on the assignment or assessment (depends on the insult).** Any alleged violations of the Student Honor Code will result in a referral to Student Conduct and Conflict Resolution. Please review the Student Honor Code and Student Conduct Code at sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/

No form of cheating, plagiarism or other misconduct is allowed. Please check the "Orange Book" if you are not sure about the definitions https://sccr.dso.ufl.edu/wp-content/uploads/sites/4/2018/08/The-Orange-Book-Web.pdf

In order to ensure that students understand the importance and implications of academic integrity, each student has to receive a certificate of completion about academic integrity from Indiana University. How to Recognize Plagiarism: Tutorials and Tests
https://plagiarism.iu.edu/certificationTests/index.html
The certificate will be submitted as an assignment.

SOFTWARE USE

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

We require each student to have MS Office (Mac or PC) installed on their computers. Similar graphing programs are available for iPads and tablets

Microsoft Software for UF students

The Office of Information Technology has great news for University of Florida students! If you want to upgrade your operating system or need Microsoft Office Suite.

Software is free for UF students and can be downloaded here

https://it.ufl.edu/services/gatorcloud-microsoft-office-online

Check here how to install the software https://vimeo.com/457717679

To check for availability of the media and technical requirements, contact the UF Computing Help Desk at (352)392-HELP(4357). Once the media is available, you can get it at the UF Computing Help Desk or at the UF Bookstore.

Other software training opportunities are available. For examples through Lynda.com
http://www.lynda.com/member.aspx

CAMPUS HELPING RESOURCES

Counseling and Wellness Center, University Police

U Matter, We Care: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care website to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center: Visit the Counseling and Wellness Center website or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website.

University Police Department: Visit UF Police Department website or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road,
Gainesville, FL 32608; Visit the UF Health Emergency Room and Trauma Center website.
University Police Department: 392-1111 or 9-1-1 for emergencies.

Academic Resources

E-learning technical support: Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at helpdesk@ufl.edu.

Career Connections Center: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.

Library Support: Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center: Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring.

Writing Studio: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.

Student Complaints On-Campus: Visit the Student Honor Code and Student Conduct Code webpage for more information.

On-Line Students Complaints: View the Distance Learning Student Complaint Process.

The Writing Studio

The writing studio is committed to helping University of Florida students meet their academic and professional goals by becoming better writers. Visit the writing studio online at

http://writing.ufl.edu/writing-studio/ (Links to an external site.) or in 2215 Turlington Hall for one-on-one consultations and workshops.

GENERIC WEEKLY SCHEDULE

Depending on which class you are taking your schedule may vary slightly. A detailed schedule weekly activities will be provided to you by your TA.

Generic lab and activity layout

Module	**INDIVIDUAL LAB MODULES - OVERVIEW**	Week
Bioterrorism	UNKNOWN PROJECT - BIOTERRORISM	
Module A	LAB SAFETY AND ASEPTIC TECHNIQUES	
Module B	HISTORY OF MICROBIOLOGY - GREETINGS FROM…..	
Module C	ELECTRONIC LAB NOTEBOOK (ELN)	
Module D	ADOPT A MICROBE - (MY FAVORITE PATHOGEN)	
Module E	PUBLIC HEALTH PROJECT	
Module F	STUDENT INITIATED INDEPENDENT RESARCH PROJECT (SIRP)	
Module 1	ART OF MICROSCOPY	
Module 2	LIFE IN A DROP OF WATER	
Module 3	GROWING MICROBES – FINDING THE CULPRIT	
Module 4	YOUR MICROBIOME	
Module 5	ISOLATING MICROBES	
Module 6	VISUALIZING MICROBES	
Module 7a	PIPETTING AND GRAPHING	
Module 7b	DATA ANALYSIS AND BASIC STATISTICAL ANALYSIS	
Module 8	ENUMERATION OF MICROBES	
Module 9a	LABMATH	
Module 9b	REFERENCE MANAGEMENT	
Module 10	TRADITIONAL DIAGNOSTIC METHODS	
Module 11	MOLECULAR DIAGNOSTICS	
Module 12	BIOINFORMATICS	
Module 13	COMBATING MICROBES – THE POST ANTIBIOTIC ERA	

Module 14	IMMUNOLOGY – DID YOU GET INFECTED?	
Module 15	VIROLOGY - THE CURRENT COVID-19 PANDEMIC	
Module 16	MYCOLOGY - FUNGUS AMONG US	
Module 17	PARASITOLOGY - MONSTERS INSIDE ME	
Module 18	CLEAN WATER CRISIS - THE GLOBAL TRAVELER	
Module 19	FOOD LAB - FERMENTATION REVIVAL	

DATABASES AND PROGRAMS YOU WILL USE

VIRTUAL POND DIP – FOR WET MOUNT IDENTIFICATION

http://www.microscopy-uk.org.uk/index.html?http://www.microscopy-uk.org.uk/ponddip/

NCBI TAXONOMY (NO PASSWORD)

http://www.ncbi.nlm.nih.gov/taxonomy

GIDEON – TO DETERMINE YOUR UNKNOWN AND FOR PUBLIC HEALTH PROJECT

https://www.gideononline.com/

If you are not on campus you have to use VPN to connect to the database

http://www.uflib.ufl.edu/ufproxy.html

How to install VPN https://vimeo.com/manage/457717794/general

BLAST – FOR SEQUENCE ALIGNMENT

http://blast.ncbi.nlm.nih.gov/Blast.cgi

ENDNOTEWEB REFERENCE MANAGEMENT PROGRAM

http://web.uflib.ufl.edu/endnoteweb.html

HEALTHMAP

http://healthmap.org/en/

FIJI IMAGEJ (ONLINE LAB ONLY)

https://imagej.net/Fiji/Downloads

How to install FIJI https://vimeo.com/452550421

MICROBIOLOGY VIDEOS

Your TA will let you know when you have to watch each video for which module! You may have quizzes about the content of the videos

Check out the UF MICROBIOLOGY video channel in Vimeo (in lab version)
https://vimeo.com/channels/859405

Please note all of the videos are produced at the Department of Microbiology and Cell Science and many of them were actually made as part of the independent student project!!!! *Thanks to all our amazing students!*

Microbiology videos and tutorials for home kits and online labs
New videos have been produced to explain home kit and online activities
https://vimeo.com/manage/showcases/7142034/info

Microbiology intro

Lab Safety Rules

https://vimeo.com/46094533

Daily Routines

https://vimeo.com/46094085

Aseptic Techniques

https://vimeo.com/41315162

Basic Methods

Art of Microscopy

https://vimeo.com/166713949

Basic Anatomy of a Microscope

https://vimeo.com/44820192

Wet Mount

https://vimeo.com/48160779

Streak for isolation

https://vimeo.com/48162797

Pipetting

https://vimeo.com/44820191

Computer Tutorials

Graphing with Excel

https://vimeo.com/49518570

Growth curve and growth rate calculation

https://vimeo.com/52150245

Visualizing Microbes

Gram Stain

https://vimeo.com/44820193

Negative Stain

https://vimeo.com/73670001

Capsule Stain
https://vimeo.com/73672899

Flagella Stain
https://vimeo.com/73666368

Traditional Diagnostic Methods

SIM
https://vimeo.com/73671768

Phenol Red Broth
https://vimeo.com/73671112

Blood Agar
https://vimeo.com/73656591

Mannitol Salt Agar
https://vimeo.com/73668944

MacConkey agar
https://vimeo.com/73668126

DNAse Agar
https://vimeo.com/73662034

Catalase Test
https://vimeo.com/73659734

Anaerobe Jar
https://vimeo.com/73655513

Molecular Diagnostic test

PCR 1
https://vimeo.com/49327264

PCR 2
https://vimeo.com/49520521

PCR 3
https://vimeo.com/49520034

Bioinformatics

Sequence retrieval and Blast

https://vimeo.com/50079545

Blast tutorial and phylogenetic tree

https://vimeo.com/51947843

Basic Bioinformatics Tutorial

https://vimeo.com/116163972

Diagnostic tests

ELISA

https://vimeo.com/73662873

Parasites

Fecal float

https://vimeo.com/73664907

Other Software

Endnote reference management

https://vimeo.com/114244854

http://web.uflib.ufl.edu/endnoteweb.html

Virtual Field Trips

Diagnostic lab UF Vet School

https://vimeo.com/41315011

Documentaries – student projects

Lyme documentary

https://vimeo.com/54990581

Cholera outbreak in Haiti (public health)

https://vimeo.com/48172281

Cool Stuff

MICROBES DID YOU KNOW…….

https://vimeo.com/51246086
https://vimeo.com/63859256

WHY MICROBIOLOGY?

https://vimeo.com/41315163

MEET THE MCS FACULTY

https://vimeo.com/41315161

MICROBIOLOGY @ UF LAB TERMINOLOGY: QUIZLET VOCABULARY SETS

All study sets

https://quizlet.com/class/2282683/

Modules

Biosafety
https://quizlet.com/118956260/biosafety-flash-cards/

Microscopy
https://quizlet.com/563846410/art-of-microscopy-flash-cards/

Life in a drop of water
https://quizlet.com/118960595/life-in-a-drop-of-water-flash-cards/

Microbiome
https://quizlet.com/145781826/microbiome-flash-cards/

Bioterrorism
https://quizlet.com/121416442/bioterrorism-flash-cards/

Visualizing bacteria
https://quizlet.com/118964990/visualizing-bacteria-flash-cards/

Isolation of microbes
https://quizlet.com/118974444/isolation-of-microbes-flash-cards/

Pipetting
https://quizlet.com/118965384/pipetting-flash-cards/

Labmath and Graphing
https://quizlet.com/118963031/labmath-and-graphing-flash-cards/

Enumeration of microbes
https://quizlet.com/118975469/enumeration-of-microbes-flash-cards/

Growing microbes
https://quizlet.com/118971694/growing-microbes-flash-cards/

Traditional diagnostics
https://quizlet.com/118969630/traditional-diagnostics-flash-cards/

Molecular diagnostics
https://quizlet.com/118977597/molecular-diagnostics-flash-cards/

Combating microbes
https://quizlet.com/118985037/combatting-microbes-flash-cards/
https://quizlet.com/516979569/antibiogram-flash-cards/

Antibiogram and Antibiotics
https://quizlet.com/112849756/antibiogram-and-antibiotics-flash-cards/

MRSA screen
https://quizlet.com/118986660/mrsa-screen-flash-cards/

Virology
https://quizlet.com/640725207/virology-flash-cards/

Immunological methods & STDs
https://quizlet.com/118982561/immunological-methods-stds-flash-cards/

Global Traveler – water crisis
https://quizlet.com/118987142/global-traveler-water-crisis-flash-cards/

Fungi
https://quizlet.com/112850493/fungi-flash-cards/

Microbes, food and fermentation
https://quizlet.com/118990517/microbes-food-and-fermentation-flash-cards/

Mini modules

https://quizlet.com/118981521/biofilm-flash-cards/

Meet the microbes

Pathogens - Bacteria
https://quizlet.com/112850007/pathogens-bacteria-flash-cards/

Pathogens – Parasites
https://quizlet.com/112848889/pathogens-parasites-flash-cards/

Other sets

Definitions MO (summary of key terms)
https://quizlet.com/110252546/definitions-mo-flash-cards/

Etymology – word origins
https://quizlet.com/110251306/etymology-word-origins-flash-cards/

Famous microbiologists
https://quizlet.com/112845093/famous-microbiologists-flash-cards/