Syllabus - Virology (BISC 306)

Course Overview:
For the Fall 2020 semester, Virology (BISC 306) is a remote online course in which students will learn fundamental concepts of virology including virus structure, replication, pathogenesis, clinical symptoms, diagnosis, treatment, and prevention of human and veterinary viral diseases.

Course Description:
Fundamental biology and biochemistry of bacterial, human, veterinary, and plant viruses.

Course Prerequisites: C grade or better in BISC 160, 161, 162, and 163.

Department policy for majors: This course counts toward a biology major. The course requires a C or better grade in order to count toward a B.A. or B.S. degree in biology.

Instructor:
Wayne L. Gray, Instructional Assistant Professor, UM Biology Department
Phone: (662) 915-1923. Email: wgray@olemiss.edu Office: Shoemaker room 310.

Office Hours: Students may contact Dr. Gray via email to ask questions and address issues. Students may also converse with Dr. Gray via Zoom session to discuss course matters.

Course Learning Objectives:
After completing this course, students will be able to:

- describe virus structure
- list the steps of virus replication
- explain viral pathogenesis and disease symptoms
- identify methods of diagnosis and treatment of viral diseases
- describe prevention and control of viral diseases including vaccines
This objective will be achieved through participating in class lectures via Zoom, reading course materials, presenting case studies, writing summaries of articles and documentaries, and performing successfully on quizzes and examinations.

A goal of the course is to enhance student learning through oral and written communication, reasoning and critical thinking, and ethical reasoning.

**Textbook:** Recommended, but not required textbook: *Medical Microbiology* 8th edition. Authors: Murray, Rosenthal, Pfaller. ISBN: 978-0-323-29956-5. Publisher: Elsevier/Saunders, Philadelphia PA. The 7th edition of the textbook is also OK. This same textbook is used for the Medical Microbiology course (BISC 520).

**Weekly Quizzes:**
Students should read and review the PowerPoint lessons that are assigned for each week of class. Afterwards, students will take an 8 or 9 question Blackboard quiz covering the material. These quizzes are open-book and students should refer to the PowerPoint slides, videos, and other resources to answer the questions. Students will have 90 minutes to complete the quiz.

Completed quizzes are **due at 12 noon on the Tuesday of each week.** Quiz scores will be recorded on the course Blackboard site each week. The course will include ten 8 or 9 point quizzes (total 80 points) and will make up 80% of the Assignments grade- see below.

**Exams:**
There will be three exams including the final exam. Each of the 3 exams will consist of 30 to 40 multiple choice questions and count for 100 points (%). Each of the three exams will count toward 25% of the course grade. A limited access time to take the exam will be assigned for each exam.

Exams will be taken remotely using Proctorio, an on-line proctoring system. Students are required to download the Proctorio program on their computer. For installation instructions refer to the Proctorio student guide:


**Make-up exams**- Valid reasons for missing an exam are very limited and include medical or family emergency or University-sanctioned events. Depending on the circumstances, a student may or may not be allowed to make-up an exam. To be eligible to make up an exam:

1) You must notify Dr. Gray by email or in person immediately, preferably prior to the exam, but at most, 24 hours after the exam.
2) Documentation for an excused absence may be required.
3) Upon receiving an excused absence, a make-up exam will be scheduled, within 1-2 days.
4) The format of the make-up exam will be multiple choice, short answer, oral, and/or discussion.
5) Unexcused absence for a missed exam results in a grade of zero.

Case Study Presentations:
Course material will be presented through weekly case studies. Groups of 2 or 3 students will be assigned to prepare and present a 10 to 15 minute PowerPoint case study on an assigned virus topic. Presentations will be given via Zoom during the designated course time. Students must place their PowerPoint slides on Blackboard 24 hours prior to their presentation. The case study will count for up to 20 points of the Assignments grade (20%).

Extra Credit Submissions:
Extra-credit opportunities include one page summaries of assigned documentaries, Dr. Gray’s Infectious Disease Twitter (@wgrayvirologist), and podcasts (This Podcast Will Kill You). The summaries must be submitted as assignments on Blackboard and are due by the start time of each exam. Students may earn up to 2 points extra credit on each of the 3 exams.

Grading:

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<tr>
<th>Categories</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>25%</td>
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<td>Exam 2</td>
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<td>Exam 3</td>
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<tr>
<td>Assignments- Quizzes, Presentation</td>
<td>25%</td>
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<tr>
<td>Total</td>
<td>100%</td>
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Grading Scale:
Final Grading Scale
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<th>Score Range</th>
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<td>90.0 to 92.99</td>
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<td>88.0 to 89.99</td>
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<td>0 – 59.49</td>
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Attendance Policy:
Students will be able to login to the PowerPoint lecture material via Blackboard. Lectures, student case study presentations, and exam review sessions will be accessible via ZOOM, although participation is not required. Student verification during the first two weeks of class will be conducted via Blackboard.

Technology:

INTERNET ACCESS
You must have access to the Internet, preferably high speed Internet, for the duration of this course.

  SOFTWARE
  You must have access to a computer with the following software installed:
  o Microsoft Office
  o Google Chrome Browser
  o Proctorio- a web-based exam proctor program that integrates with Blackboard.

Tech support
The IT Helpdesk, centrally located in Weir Hall, is open Monday through Friday, 8 a.m. to 5 p.m. The helpdesk offers assistance to Ole Miss students and employees with technology-related issues involving software, hardware and networking. It provides support for email, Wi-Fi, Microsoft Office and other campus-wide applications. Call 662-915-5222 for assistance or Email helpdesk@olemiss.edu.

University of Mississippi Policies

Disability Access and Inclusion
The University of Mississippi is committed to the creation of inclusive learning environments for all students. If there are aspects of the instruction or design of this course that result in barriers to your full inclusion and participation or to accurate assessment of your achievement, please contact the course instructor as soon as possible. Barriers may include, but are not necessarily limited to, time limits, difficulty with the acquisition of lecture content, inaccessible web content or the use of non-captioned or non-transcribed video and audio files. Students must also contact Student Disability Services at 662-915-7128 or sds.olemiss.edu so that office can 1) explore if barrier removal is necessary; 2) provide you, if approved, with Instructor Notification forms; 3) facilitate the removal of curricular barriers; and 4) ensure you have equal access to the same opportunities for success that are available to all students.
Copyright Notice
Materials used in connection with this course may be subject to copyright protection under Title 17 of the United States Code. Under certain Fair Use circumstances specified by law, copies may be made for private study, scholarship, or research. Electronic copies should not be shared with unauthorized users. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability as well as disciplinary action under University policies.

IT Appropriate Use Policy
This policy sets forth the privileges of and restrictions on students, faculty, staff, and other users with respect to the computing and telecommunications systems offered by the University of Mississippi (UM). This policy is designed to protect the University community from illegal or damaging actions by individuals, either knowingly or unknowingly. Inappropriate use exposes the University to risks, including virus attacks, compromise of network systems and services, and legal issues. This policy directly addresses copyright issues related to illegal downloads and peer-to-peer file sharing. For Appropriate Use Policy questions, send an email to aup@olemiss.edu.

Academic integrity
The University of Mississippi is dedicated to supporting and sustaining a safe and scholarly community of learning dedicated to nurturing excellence inside and outside of the classroom. Each student has a duty to become familiar with University values and standards reflected in University policies, and each student has a duty to honor University values and standards reflected in University policies. These policies are outlined in the M Book. For a complete listing of policies, please visit the University Policy Directory.

Verification of Student Attendance Policy
The University must abide by federal guidelines to verify the participation of online students. For all course types, including thesis, internships, labs, online courses, etc., the instructor must verify your participation based on some type of participation. This may include submission of an online assignment or other course related contact with the instructor.

Federal regulations, our accrediting agency (SACS) and university policies require that safeguards are used to ensure that the student who receives the academic course credit is actually the person doing the work. You will need to present your student ID before taking proctored exams and your instructor may verify your identity through live or virtual meetings, or by using an identity verification program.

Student Privacy Policy
The University of Mississippi protects the privacy of all students, including online and distance learning students, through adherence to the Family Educational Rights and
Privacy Act of 1974 (FERPA) through compliance with other institutional policies and procedures governing the management and security of protected information of faculty, staff, and students, and by outlining the expectations of privacy for the university community as regards to electronic information. Student Privacy Policy