Spring 2021

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| Course Name/Number | Instructor | Teaching mode |
| Genetics/BIOL326 | Nicole Crown | This class is technically synchronous, but will be accessible asynchronously. There will be no synchronous exams or assessments. Students should feel free to take this class even if they are in a different time zone. |
| From Black Box to Toolbox/BIOL303 | Sarah Bagby | This class is discussion-based and strictly synchronous. There are no exams. |
| Taming the Tree of Life (BIOL314) | Jean Burns (Moriuchi) | This class is technically synchronous, but will be accessible asynchronously. There will be no synchronous exams or assessments. Students should feel free to take this class even if they are in a different time zone. |
| Design and Analysis of Biological Experiments (BIOL 321) (January) | Jessica Fox | Remote and synchronous: this is a lab course and will require interaction with the professor and other students. No exams. |
| Foundations of Advanced Ecology (BIOL 471) | Karen Abbott | Discussion is a major component of this course, so synchronous attendance is necessary. There are no exams. |
| Seminar on Biological Processes in Learning and Cognition(BIOL 385) | Barbara Kuemerle | Discussion is a major component of this course, so synchronous attendance is required. Class meetings are Tues & Thurs 10-11:15am via zoom. |
| Anatomy and Physiology II/ BIOL 117  | Rebecca Benard  | This is a remote course with asynchronous and synchronous components. The asynchronous component prepares students for the required synchronous discussion (via zoom) led by the instructor. The instructor will assign students to the Monday and Wednesday sections (8:00-9:15 a.m. EST). If the class discussion is outside 8:00 a.m.-11:00 p.m. in the student’s local time zone, or a student requires a complete asynchronous option, please contact Dr. Benard directly (rbb53@case.edu) |
| Dynamics of Biological Systems (BIOL 300) | Hillel Chiel | This course will be run synchronously - students will meet with instructors during the class time to discuss problems and work on their models. There are no exams. Office hours will be offered for students who cannot make class times or who need additional support. Taking this class in a time zone that is more than 3 hours before or after Cleveland time may be difficult, although we will try to accommodate students if enough instructional personnel are available. |
| Functional Genomics (BIO327) | Claudia Mizutani | This is a lab course with hands-on component and in-class discussion. It is offered as a synchronous remote course only.  |
| Introduction to Stem Cell Biology (BIOL324) | Claudia Mizutani | This is a seminar-based course with discussions and student presentations in class. It is offered remotely as a synchronous class format. |
| BIOL 346 Human Anatomy | Ron Oldfield | This course is designated synchronous in SIS because the lectures will be given live. However, the course will be 100% accessible asynchronously. Students in other time zones should feel comfortable enrolling in this course. |
| BIOL 338 Ichthyology | Ron Oldfield | This course will be taught live, in person. Students need to be physically present in Cleveland to take this course. |
| BIOL 389 Special topics in pandemics and emerging diseases | Robert Ward | This course will involve small group discussion of primary literature, newspaper articles and reviews. It will be remote and synchronous. If the COVID situation allows, we will have one or two field trips (e.g. Dittrick Medical History Center). |
| BIOL 304/404: Fitting models to data: Maximum likelihood methods and model selection | Robin Snyder | This is a flipped course. I will give brief lectures at the beginning of class over zoom, and then students will work in pairs in zoom breakout rooms on coding labs or, later, their term projects. The TA and I will go from breakout room to breakout to answer questions. This course is therefore not suitable for those who cannot be present for the 2:30--3:45 PM Eastern Time class slot. |
| BIOL 341: Basic Biology of Blood and Blood Disorders | Yolanda Fortenberry | This course is both synchronous and asynchronous. The lectures are reviewed asynchronous and the students are required to submit a 1-minute paper. The concerns and questions in the 1-minute papers are addressed during the synchronous portion of the course. All exams are given synchronously. |
| Neurobiology of Behavior (BIOL 374) | Gabriella Wolff | This is a discussion-based course and remote, synchronous attendance is required. There are no exams. |
| BIOL328: Plant Genomics and proteomics | Christopher Cullis | This course will be run remote and synchronously - students will meet with the instructor online during the class time, for lectures and group activities. The classes will be recorded for additional viewing and review, but class attendance will be necessary. There are no exams but there are graded problem sets. |
| BIOL 357: Backyard Behavior Capstone | Noah Dunham | This class is technically remote synchronous but will also be accessible as remote asynchronous. The research component will be largely independent. Students may have the opportunity to meet with the instructor in-person or remotely to discuss research projects/ progress. Students should feel free to take this class even if they are in a different time zone. There are no exams, but students will be assessed through assignments, class participation, and final presentation and paper.  |
| Biol 343/443 Microbiology (lecture) | Dianne Kube | The lecture-based class has both asynchronous and synchronous components. The lectures will be recorded via Echo 360, and available asynchronously for students to independently view. The class will be randomly divided into thirds for the synchronous component. One day a week, on either M or W or F, during the EST class time listed in SIS, (50 min) each ⅓ of the class will be required to attend a synchronous discussion session via Zoom. Once the discussion session time is established per student, it must be adhered to throughout the semester. Exams will be entirely on-line, having a 12 H window in which to access, and to complete with one submission within approximately the 50 minutes scheduled class-time duration. Group activities and/or discussion boards will be asynchronous. If the student is in a time zone that absolutely prohibits attendance at the specified time, the instructor must be notified before the semester begins to determine if accommodations can be arranged. |
| Biol 344 Microbiology Lab | Dianne Kube | Microbiology lab will have both asynchronous and synchronous components. Virtual labs need to be completed each week asynchronously, with a written lab report submitted each week. The synchronous component of microbiology lab is a required attendance on Friday of each week for recitation. This time is EST 2:15-3:05 pm. During this time on-line quizzes will be administered weekly. If students are in a time-zone that absolutely prohibits attending recitation at the specified time, the instructor must be notified before the semester begins to determine if alternate arrangements can be made. |
| Biol214L | Leena Chakravarty | Teaching modality will be both asynchronous and synchronous. The asynchronous part of the labs will consist of computer-simulated experiments using external tools once a week. The virtual labs students can perform within a 40-hour window. Following week, synchronous part will be conducted at the assigned period through a live remote system The synchronous part will cover the recitation, discussion, and powerpoint presentation.  |
| Biol492 | Leena Chakravarty | Teaching modality will be synchronous using a live remote system. Each class will be recorded. |
| Biol 215L | Deb Harris | Remote and synchronous: this is a lab course and will require interaction with the professor and other students. No exams. |
| BIOL 223 (Vertebrate Biology, "Vert Lab") | Rich Drushel | Fully in-person dissection and histology lab course, as offered pre-pandemic. No remote option; if CWRU is shut down at the start of the semester, the class will be cancelled. However, if CWRU shuts down after drop-add ends, then an emergency "rescue" curriculum will be deployed, as in Spring 2020. Details and a list of materials required for the "rescue" option will be provided to students at the start of the semester.Six hours per week supervised lab time (Tue/Thur 1:00-3:45 PM), with 4+ hours of unsupervised lab work required per week; the lab will be open 24//7. Up to 19 students can be accommodated, split between Millis 320 (10) and Millis 324 (9). The seating is already marked for social distancing, and each student will have an assigned seat, not shared with others. Benchtops will still be open; there are no partitions or dividers.Assessments are by handwritten lab notebook (midterm and final) and in-person lab practical (midterm and final). A 2-hour evening review session will be held in the lab before each lab practical.Students will have their own dissection specimens, disarticulated cat skeleton, and microscope slide box. It is likely that each student will have his/her own compound microscope, but dissecting microscopes, museum specimens of skeletons, and some microscope slides will have to be shared.Students must buy their own dissection kit and provide their own full-length lab coat and eye protection (all available from the CWRU Bookstore). Nitrile gloves will be provided in the lab.Cloth masks to limit COVID-19 transmission are the only additional protective equipment required, compared to the lab baseline of full-length lab coat, long pants, closed-toed shoes, eye protection, and nitrile gloves during dissection. A face shield is probably impractical for the required lab work. Use of shared equipment or specimens will require wearing nitrile gloves, and alcohol cleanup of the equipment between uses. |
| BIOL 340, Human Physiology | Rich Drushel | Two 75-minute lectures per week taught as synchronous remote via Zoom, but all recorded for asynchronous viewing.Assessment is by 4 synchronous remote exams, distributed as PDF via Canvas, and answers returned by scan/E-mail of answer sheets. The exams are not specifically cumulative. E1 is an overnight take-home, open-book, open-note, group work prohibited as an Academic Integrity violation. E2 and E3 are synchronous remote, closed-book, closed-note, given in a 7:00-9:30 PM Eastern timeslot (2 hours for the exam, 15 minutes allowed each way for digital transmission). E4 is like E2-E3 (i.e., conceptually a 2-hour exam) except given during the 3-hour Final Exam period.For students in remote timezones, or with OATS extra-time accommodations, administration of E2-E4 will be worked out on a case-by-case basis.All students are required to sign an Honor Pledge for each exam, attesting to observance of the stated exam conditions. Proctoring software is \*NOT\* used. Students should be logged into the Zoom classroom during the exams to facilitate communication about last-minute changes, technical issues, clarifications, etc.Four 2-hour exam review sessions will be held live via Zoom in a 7:00-9:00 PM Eastern timeslot. These will be recorded for asynchronous viewing. |
| BIOL 205 Climate Science and Society | Sarah Diamond | Remote, synchronous. Lectures will be recorded and posted to Canvas for asynchronous use; however, paper discussions require synchronous participation. |
| BIOL 364/464 Research Methods in Evolutionary Biology | Ryan Martin | Remote, synchronous. Lectures will be held during scheduled class time but also recorded and posted to Canvas along with the lecture slides. However, paper discussions, class presentations and in class assignments require synchronous participation. There are no exams for this course.  |
| BIOL 216L Development and Physiology Laboratory | Susan Burden-Gulley | Remote, synchronous. Lab meetings will occur once per week during the assigned time block for an introductory lecture or recitation session. Laboratory assignments and reports will be completed asynchronously and submitted through Canvas. Student groups will present laboratory reports during recitation meetings. |
| BIOL 325 Cell Biology | Susan Burden-Gulley | Remote, synchronous. This course has both asynchronous and synchronous components. Lectures will be recorded and made available on Canvas, along with lecture slides, for students to view asynchronously to prepare for class meetings. Reading assignments may also be required. Synchronous class meetings will occur during the scheduled time block, consisting of discussions, group work on problem sets or case studies, and student presentations. Homework submitted through Canvas. There are no exams, but weekly quizzes will be given during scheduled class time. |
| BIOL 215 | Valerie Haywood | The class is listed as synchronous, but lectures can be viewed any time within a 24 hour window on class days.  However, exams are synchronous and will be held during class time only. While it is not recommended, if a student wishes to register with a time conflict, please request a permit from the other professor. I cannot accommodate time conflicts due to the class size.  |
| BIOL 366 | Radhika Atit | Remote, sychnronous |