



Laboratory Techniques in Biotechnology(June 7th - July 25th, 2023) Summer Semester 2022 BIOL 4010 (CRN# 53461) BIOL 6010 (CRN# 53463) Special Topics in biology Credit hours: 4

Instructor: Dr. Ansul Lokdarshi Office: BC 2212 Email: alokdarshi@valdosta.edu

Office (Student) hours Monday 3:30 PM- 5:00 PM in my office, BC2212or by appointment

Lecture (BS 1202)		Tuesday and Thursday	11:10AM ±1:10PM
Lab	(BS 2071)	Tuesday and Thursday	1:30 PM ±5:20 PM

Pre-requisites: BIOL 1107, BIOL 1108 or permission from instructor

Course description:

- < The lecture will focus on buildin/gefreshingand advancing conceptor a variety of keylab techniques such electrophoresis, spectrophotometroplymerase chain reaction icrobial aseptic techniques icrobial septic techniques (CRISPRetc., that are essential biology related career)</p>
- Laboratory exercises will provide xtensive handson experience with lecture related topics, in addition to strengthening the leas of experimental desig(developing hypotheses, setting up an appropriate experiment, statistics and valuation of data
- Although laboratory experience with practices such as sterile technique and pipet usage are ideal, these technique will be part of the arly-on laboratory instructions

This course learning outcomes supporting achievement of the Department of Biology Educational Outcomes 1, 3 and 4 (<u>http://catalog.valdosta.edu/pdf/202022.pd</u>) D Q G 9 6 8 ¶INas DISG general education learning goals (<u>https://www.usg.edu/academic_affairs_handbook/section2</u>)C738

Attendance:

- **‡**<u>Attendance to bothlecture and lab is required</u>. If you miss a lecture or lab I reserve the right to determine what constitutes an excused or unexcused absence. To name a couple of examples of unexcused absences, schedul appointments or leaving town, except for Universet atted activities (e.g. you are on a sports team or are SUHVHQWLQJ DW D FRQIHUHQFH GR QRW FRQVWLWXWH H[FXVHG H[FXVHG DEVHQFH DQ\ DGGLWLRQDO 3QRW IHHeOLQJ ZHOO´ DEVHQ</u>
- ‡Quizzes and inclass assignments will be given throughout the semester, which is why attendance is required. Generally, quizzes or iolass assignments in lecture cannot be made up if lecture is missed. If you miss the lecture and I approved your above the total number of points possible to you will be reduced. If you miss quizzes and/or inclass lecture assignments and I did not approve the absence a zero will be given for that particular assignment, quiz, etc.
- ‡Lectures and Labs cannot be madet therefore, do not miss either. I also reserve the right to determine what constitutes an excused absence from lab. If you miss 2 labs (excused or unexcused) you will earn an F for the course as per University policy.
- #f students must be absent due topuarantine or isolation requirement for COVID, they must report this situation via the COVID Self Reporting Link in MyVSU and through the Dean of Students Office to report any other absences as well.
- <u>±Mid-term and Attendance</u> Students will have severted cture and laboratory assignments to determine their overall grade by the MidTerm and decide whether to withdraw at the deadline date (STUDENT IS RESPONSIBLE TO CHECK THE DEADLINE). As detailed above, attendance is mandatory.

<u>Conduct:</u> \$UULYH RQ WLPH WR OHFWXUH DQG ODE 7XUQ RII FHOO SKR LI \RX GRQ¶W XQGHUVWDQG VRPHWKLQJ RU GLGQ¶W KHDU VRPHWK constitute an emergency) do not **gp** in the middle of lecture, leave and come back. Do not ask to get up and leave the room during an exam, unless it is an emerg**ehis**ycourse is offere<u>ONLY</u> faceto-face. Everyone is encouraged to wear mask during the lecture and labs.

Lab rules and regulations:

Bring a notebook to lab to write down your data. You will need this to complete your weekly lab report and submit that file in BV for grading. A final lab report will be built on these weekly lab reports.

‡Read the lab handouts ahead ofetise that you have some idea of what will be going on in the lab.

Be on time for lab. Instructions, clarifications and changes in protocols will be given at the beginning of lab, and I will not repeat myself just because you are late.

1/1 No eating or drinking in the lab at any time. Some of the chemicals we will be using are toxic or mutagenic. 1/2 Iclean up after yourself. Remove all labels/tape from the glassware, rinse and place in the tub by the sink.

 ‡lfyou break something or think you may have broken solwinke LQJ SOHDVH WHOO PH \$FFLGH SUREOHP LI\RX GR QRW WHOO PH EHFDXVH ,-EURCCooffatWlfEyebu hDavEeOanhy WR TXHVWLRQV DERXW XVLQJ D SLHFH RIHTXLSPHQW LW¶V DOZD\DW

<u>Student Opinion of Instruction survey (SOI)</u>: At the end of the term, all students will be expected to complete an online Student Opinion of Instruction survey (SOI) that will be available on BANNER. Students will receive an email notification through their VSU eniladdress when the SOI is available (generally at least one week before the end of the term). SOI responses are anonymous to instructors/administrators. Instructors will be able to view only a summa of all responses after they have submitted final gradd while instructors will not be able to view individual responses or to access any of the data until after final grade submission, they will be able to see which students have or have n completed their SOIs. These compliance and-roompliance reportsvill not be available once instructors are able to access the results. Complete information about the SOIs, including how to access the survey and a timetable for this term is available at SOI Procedpr5wr3(tr)-10(i)5(l)5(a)-10(bd) Tibd nt Oama or 18 or 18 or 757 rg0007(s, 6 0 1 8 0 757 rg0007(s,

Tentative schedule: Please check BV for any changes that may occur during the semester.

WEEK	DAY	DATE	LECTURE	LAB