

LABORATORY SCHEDULE
BIOLOGY 5 PHYSIOLOGY**

**FALL 2018
DR. TANABE**

REMEMBER TO VIEW VIDEO TUTORIALS FOR LABS 1, 2, 3, 5, 12, 13, 14, 15 AND BIOPAC LABS BP 1, 2, 10 on TANABE'S WEBSITE <http://tanabehomepage.com>

SUPP= Lecture/Lab Supplement; purchase at Yuba College Bookstore. Labs L1-L20 are in the front white pages, BP1- BP10 are in the back white pages. Lecture notes are the colored pages.

DATE	DAY	TOPIC	EXERCISE
AUG 14	TU	INTRODUCTION TO COURSE, REVIEW LAB SCHEDULE & GRADING POLICY (READ BEFORE FIRST CLASS SESSION)	
		SKILLS LABS: METRIC MEASUREMENTS, MICROSCOPES,	SUPP- L2, L3 AND
		BIOHAZARDOUS MATERIALS GUIDELINES	L1*
		MOVIE: AIDS-ISSUES FOR HEALTHCARE WORKERS	
AUG 16	TH	REVIEW USE AND CARE OF COMPUTERS	
		LAB: HOMEOSTASIS	SUPP-BP1
		MOVIES: DESIGN FOR LIVING, HOMEOSTASIS	
AUG 21	TU	LAB: CONCENTRATIONS AND OSMOSIS (REPORT 5A DUE THURS)	SUPP-L5A*
		SIGN LAB CONSENT AND MEDIA USE FORMS	SUPP-F1, F2
AUG 23	TH	FINISH LAB: CONCENTRATIONS AND OSMOSIS	SUPP-L5B*
		MOVIES: NERVE IMPULSE CONDUCTION	
		REVIEW LABS	
AUG 28	TU	LAB: ACTION POTENTIAL (NERVES WILL ALREADY BE DISSECTED)	SUPP-BP2
		(FOR REFERENCE READ BIOPAC PRO LESSONS A01, A03 FOR ACTION POTENTIAL LAB FROM TANABE WEBSITE)	
		MOVIE: THE BRAIN, OUR TALENTED BRAIN	
AUG 30	TH	EEG	SUPP-BP3
		REVIEW LABS FOR EXAM	
AUG 31	FRI	LAST DAY TO DROP CLASS TO AVOID W GRADE ON PERMANENT RECORD	
END OF MATERIAL FOR EXAM #1			
SEP 4	TU	NO CLASSES – PROFESSIONAL DEVELOPMENT DAY	
SEP 6	TH	EXAM #1	
		CUTANEOUS SENSATION, TASTE AND OLFACTION,	SUPP-L6, L7
		EYES AND VISION, HEARING AND EQUILIBRIUM	SUPP-L8, L9
		PROCEED AT YOUR OWN PACE SENSORY LABS TODAY, TUES:	
		L6 DUE TUES; L8, L9 DUE THURSDAY SEP 13; NO L7 LAB REPORT	
SEP 11	TU	FINISH SENSORY LABS	SUPP-L8, L9
		MOVIES: TASTE AND SMELL, NOW HEAR THIS	
SEP 13	TH	LAB: CLUELESS ANS LAB	SUPP-L10
		INTRO TO AUTONOMIC NERVOUS SYSTEM LECTURE IN LAB	

		MOVIES: VISUAL REALITY	
SEP 18	TU	LAB: ENDOCRIN'	SUPP-L11
		EXTRA ENDOCRINE LECTURE	
SEP 20	TH	REVIEW LABS FOR EXAM 2	
		MOVIE: GLANDS AND HORMONES	
END OF MATERIAL FOR EXAM #2			
SEP 25	TU	EXAM #2	
		GROUP PROJECT: REACTION TIME – 30 PTS (DUE OCT 9)	
		MOVIES: MUSCLE & BONE, MUSCLE POWER	
SEP 27	TH	LAB: FROG GASTROC MUSCLE CONTRACTION	SUPP-BP6
		(ALSO READ FROG LESSON FROM TANABE WEBSITE)	BIOPAC A02
		PREPARE FOR BLOOD LAB ON TUESDAY	
OCT 2	TU	GET BLOOD DRAWN, PROCESS BLOOD IN LAB, MAKE AND STAIN BLOOD SMEAR (L4, L14)	SUPP-L4*, L14 (REF)
		WHITE BLOOD CELL (COUNT ONLY, NOT DIFFERENTIAL)	SUPP-L14*
		MOVIES: CIRCULATION; BLOOD/LYMPH	
OCT 4	TH	LAB: HEMOGLOBIN & OXYGEN TRANSPORT	SUPP-L12*
OCT 9	TU	LAB: ELECTROCARDIOGRAM, PULSE, AND HEART SOUNDS	SUPP-BP8
		MOVIES: THE HUMAN PUMP, THE CIRCULATORY SYSTEM	
OCT 11	TH	LAB: TEMPERATURE & DRUG EFFECTS ON FROG HEART (ALSO PRINT BIOPAC FROG HEART LESSON)	SUPP-BP9, BIOPAC PRO A04
		REVIEW LABORATORIES	
OCT 16	TU	LAB: MEASUREMENTS OF BLOOD PRESSURE	SUPP-L13
		MOVIE: LIFE UNDER PRESSURE	
		REVIEW LABORATORIES	
END OF MATERIAL FOR EXAM #3			
OCT 18	TH	NO CLASS TODAY, VIEW LECTURE ONLINE	OCT 18
OCT 23	TU	EXAM #3	
		MOVIES: INTERNAL DEFENSES, DEFEND AND REPAIR	
		DISCUSS FINAL EXAM REVIEW TOPICS- 30 PTS- SIGN UP	
OCT 25	TH	LAB: WHITE BLOOD CELL COUNT (DIFFERENTIAL ONLY)	SUPP-L14*
		LAB: BLOOD TYPING	SUPP-L15*
OCT 30	TU	LABS: LUNG CAPACITY	SUPP-BP10
		MOVIE: BREATH OF LIFE	
NOV 1	TH	LAB: RESPIRATION AND ACID-BASE BALANCE	SUPP-L17*
		DISCUSS ACID-BASE	
		ACID-BASE CASE STUDY – DISCUSS AND BEGIN (20 PTS)	
NOV 6	TU	LAB: CLINICAL EXAMINATION OF THE URINE	SUPP-L16*
		(COLLECT URINE AFTER INSTRUCTIONS GIVEN)	

		FINAL EXAM REVIEW TOPIC REPORTS DUE FOR GRADE	
		MOVIE: EXCRETORY SYSTEM VIDEO	
NOV 8	TH	FINAL EXAM REVIEW TOPICS – 1 ST GROUP	
		REVIEW LABORATORIES	
		ACID-BASE CASE STUDY DUE FOR GRADE	
NOV 9	FR	LAST DAY TO DROP CLASS WITHOUT GRADE PENALTY (USUALLY AN F)	
END OF MATERIAL FOR EXAM #4			
NOV 13	TU	EXAM #4	
		REVIEW FOR FINAL	
		MOVIE: THE FOOD MACHINE	
NOV 15	TH	LAB: DIGESTION (20 POINTS)	SUPP-L18
		DISCUSS AND CHOOSE DIETS FOR BLOOD CHEMISTRY LAB	
NOV 20	TU	FINAL EXAM REVIEW TOPICS – 2 ND GROUP	
		DO FINGER STICKS FOR LAB 19, SET UP TUBES	
NOV 22 - 23 THANKSGIVING HOLIDAYS			
NOV 27	TU	LAB: BLOOD CHEMISTRY (FINISH, WORK ON GRAPHING)	SUPP-L19*
NOV 29	TH	FINAL EXAM REVIEW TOPICS – 3 RD GROUP	
		LAST DAY TO TURN IN LATE LAB REPORTS, BLUE BOOKS DUE	
DEC 4	TU	LAB: HYPOGLYCEMIA AND HYPERGLYCEMIA	SUPP-L20
		REVIEW FOR FINAL EXAM, REVIEW LABS	
DEC 6	TH	MOVIE: MIRACLE OF LIFE OR IN THE WOMB	
		REVIEW FOR FINAL EXAM, REVIEW LABS, GRADES TO DATE GIVEN OUT	
DEC 13	TH	DAY CLASS FINAL EXAM 12 - 1:50 P.M. IN LECTURE HALL	

* Denotes a universal precautions laboratory. All universal precautions will be enforced.

** Schedule subject to change.