

Medical Sciences

Toxicology Pharmacology

Week 1	Session	What	How
Monday	morning	Safety in the laboratory, Honor code	Discussion and signing
		Pre test	
		Introduction to human physiology	Power point
		Keeping lecture and practical notes	Discussion
	afternoon	Laboratory (biology) safety Human systems - circulation, respiration, digestion, excretion	Discussion/Dissection of fetal heart
evening	Human physiology continued	Complete practical report	
Tuesday	morning	Human systems consolidation	Lecture/discussion
		History of drugs assignment	Discussion, book and internet search
	afternoon	Concepts of acidity/laboratory (chemical) safety	Discussion/experiment Antacid Kit
	evening	History of drug assignment, human systems	Complete practical report, class notes, private reading
Wednesday	morning	Biochemical terms for understanding pharmacology	Lecture/discussion
		History of drug assignment	Internet search
		Introduction to bacterial growth	Discussion/prepare agar plates
	afternoon	How do drugs actually get in	Diffusion experiment/demonstration
	evening	Completion of outstanding work	Private study
Thursday	morning	Pharmokinetics	Power point/discussion/assignment
	afternoon	Natural antibiotics	Experiment Antibiotic Production Kit
	evening	Completion of outstanding work	Private study
Friday	morning	Presentation: History of drugs	5 min/team for presentation
		Pharmokinetics 2	Power point/discussion
	afternoon	Bacteria & antibiotics	Experiment Antibiotic Production Kit part Experiment Bacterial Inhibition Kit
Week 2			
Sunday	evening	Preparation for class test	Private study
Monday	morning	Testing of pharmacological facts	Class test
		Toxicology concepts	Lecture/discussion
	afternoon	Bacteria & antibiotics	Experiment Antibiotic Production Kit part Experiment Bacterial Inhibition Kit part B
evening	Toxicology concepts	Complete question sheet and practical reports	
Tuesday	morning	Assignment 2	Students to prepare 2 page report & presentation
		The synapse	Power point/discussion
	afternoon	Toxicology concepts	Effect of drugs kit using daphnia
	evening	Assignment 2, practical reports	Private study
Wednesday	morning	The synapse 2, pharmacodynamics	Lecture/discussion
		Assignment 2 - General topic	Internet search
	afternoon	How to design an experiment	Discussion - carry out experiment using daphnia
	evening	Finish experimental report	Private study
Thursday	morning	Drugs & disease: diabetes	Lecture/discussion
		Assignment 2	Internet search
	afternoon	Diabetes	Clinical dignosis of diabetes kit
	evening	Finish experimental report	Private study for test

Medical Sciences

Toxicology Pharmacology

Friday	morning	Testing of pharmacological understanding	test
		AIDS	Power point/discussion
	afternoon	Assignment 2	Internet search
		Drugs & disease: AIDS	AIDS test kit
Week 3			
Sunday	evening	Assignment 2	preparation for presentation
Monday	morning	Drugs & disease: cancer	Power point/discussion
		Assignment 2 (final)	
	afternoon	Presentations	Students present research
Tuesday	morning	Completion of poster reports	Private study
		Drugs & disease: aspirin	Lecture/discussion
	afternoon	Assignment 3 - Specific drug	Text book reading
Wednesday	morning	Aspirin synthesis	Aspirin Extraction Kit
		Assignment 3, practical reports	Private study
	evening	Drugs & diseases - affluence & poverty	Lecture/discussion
Thursday	morning	Assignment 3 - Specific drug (final)	Internet search
		Chemical analysis in pharmacology	Aspirin analysis experiment
	evening	Drugs & diseases questions	Private study
Friday	morning	New developments in drugs	Power point/discussion
		Assignment 3 - Specific drug (final)	Preparation of final report
	afternoon	Vitamin diseases	Vitamin C analysis kit
		Course evaluation	Student surveys, organization of notes
		Certificate presentation	
		How much do I know?	Post test