

Pharmacology 201 A1
Introductory Pharmacology
Course Coordinator: A. Holt
Room: ETL E1 001 Time: 14:00 - 14:50

Date	Day	Title	Lecturer	Comments
02-Sep-16	Friday	Introduction to the course	Holt	
05-Sep-16	Monday	Labour Day		No Classes
07-Sep-16	Wednesday	What is a drug and how do they work?	Holt	
09-Sep-16	Friday	What is a drug and how do they work?/ How do drugs bind to receptors?	Holt	
12-Sep-16	Monday	How do drugs bind to receptors?	Holt	
14-Sep-16	Wednesday	Drug sources - natural, synthetic, rational design	Holt	
16-Sep-16	Friday	What is affinity?	Holt	
19-Sep-16	Monday	What factors contribute to affinity?	Holt	
21-Sep-16	Wednesday	What factors contribute to affinity?	Holt	
23-Sep-16	Friday	How do you measure affinity?	Holt	
26-Sep-16	Monday	Binding models - agonism, antagonism and inverse agonism	Holt	
28-Sep-16	Wednesday	How do you identify a therapeutic target?	Holt	
30-Sep-16	Friday	When is a drug not a drug?	Holt	
03-Oct-16	Monday	MIDTERM (20%)	Holt	
05-Oct-16	Wednesday	What is efficacy? Efficacy versus affinity	Hammond	
07-Oct-16	Friday	What is efficacy? Receptors and responses	Hammond	
10-Oct-16	Monday	Thanksgiving		No Classes
12-Oct-16	Wednesday	What is efficacy? Theories of efficacy, receptor reserve	Hammond	
14-Oct-16	Friday	What is efficacy? Measurement of efficacy using bioassays	Hammond	
17-Oct-16	Monday	Quantification of drug action I: Agonist concentration-response curves	Hammond	
19-Oct-16	Wednesday	Quantification of drug action II: Competitive antagonists	Hammond	
21-Oct-16	Friday	Quantification of drug action III: Schild plots and pA2 values	Hammond	
24-Oct-16	Monday	Quantification of drug action IV: Allosteric modulators	Hammond	
26-Oct-16	Wednesday	Quantification of drug action V: Partial, inverse and protean agonists	Hammond	
28-Oct-16	Friday	Quantification of drug action VI: Receptor desensitization and biased signalling	Hammond	
31-Oct-16	Monday	Clinical aspects I: Individual and population pharmacodynamics	Hammond	
02-Nov-16	Wednesday	Clinical aspects II: Quantal dose-response curves, TI, toxicity	Hammond	
04-Nov-16	Friday	MIDTERM (20%)	Hammond	
07-Nov-16	Monday	Reading Week		No Classes
09-Nov-16	Wednesday	Reading Week		No Classes
11-Nov-16	Friday	Remembrance Day		No Classes
14-Nov-16	Monday	REVIEW - BOTH MIDTERMS	Holt/Hammond	
16-Nov-16	Wednesday	ADME - Factors affecting absorption & distribution	Holt	
18-Nov-16	Friday	ADME - Factors affecting absorption & distribution / Bioavailability & AVd	Holt	
21-Nov-16	Monday	ADME - Bioavailability & AVd / Compartments	Holt	
23-Nov-16	Wednesday	ADME - Compartments	Holt	
25-Nov-16	Friday	ADME - Elimination	Holt	
28-Nov-16	Monday	ADME - Clearance	Holt	
30-Nov-16	Wednesday	ADME - Clearance / Drug metabolism	Holt	
02-Dec-16	Friday	ADME - Drug metabolism	Holt	
05-Dec-16	Monday	ADME - Repeated dosing and the loading dose	Holt	
07-Dec-16	Wednesday	ADME - Calculation and graphing examples	Holt	Last Day Of Classes