



## University of Pretoria Yearbook 2016

# Advanced fundamentals of pharmacology 876 (FAK 876)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	Faculty of Veterinary Science
<b>Module credits</b>	30.00
<b>Programmes</b>	MSc Option: Ruminant Health (Coursework) MSc Option: Veterinary Epidemiology (Coursework) MSc Veterinary Industrial Pharmacology (Coursework) MVeterinary Medicine Bovine Medicine (Coursework) MVeterinary Medicine Cattle Herd Health MVeterinary Medicine Laboratory Animal Science MVeterinary Medicine Pharmacology MVeterinary Medicine Pig Herd Health MVeterinary Medicine Poultry Diseases (Coursework) MVeterinary Medicine Small Stock Herd Health MVeterinary Medicine Veterinary Public Health (Coursework) MVeterinary Medicine Wildlife Diseases
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Paraclinical Sciences
<b>Period of presentation</b>	Year



## Module content

Scope and historical development of veterinary pharmacology.  
Veterinary pharmaceuticals and formulation theory.  
Pharmacokinetic theory, pharmacokinetic analysis and modelling.  
Bioequivalence theory and evaluation.  
Physicochemical and molecular basis of drug action.  
Dose response and calculation of dose response parameters.  
Pharmacological modulation of organ and body functions.  
Molecular basis of action and pharmacological effects of chemotherapeutic agents.  
Adverse drug reactions, interactions and pharmacovigilance.  
Comparative species pharmacology, pharmacogenomics and pharmacogenetics.  
Background on complementary medicines.  
Fundamentals of pharmacological research.

---

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.