

## University of Pretoria Yearbook 2022

# Advanced fundamentals of pharmacology 876 (FAK 876)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Veterinary Science</a>
<b>Module credits</b>	40.00
<b>NQF Level</b>	09
<b>Programmes</b>	<a href="#">MSc (Veterinary Industrial Pharmacology) (Coursework)</a>
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</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 regulations and rules for the degrees published here are subject to change and may be amended after the publication of this information.

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations.