

# FACULTY OF PHARMACY

## GENERAL INFORMATION

The Rhodes University Faculty of Pharmacy is dedicated to achieving excellence in an environment of interdisciplinary co-operation, and mutual respect, consistent with the mission of the University and with the mission of the profession of Pharmacy.

### MISSION

The mission of the Faculty is to promote pharmaceutical care through education, research, scholarship, creative endeavour and service.

Thus its priorities are to:

\* Prepare its students for entry into the practice of pharmacy as informed, caring and ethical citizens and professionals;

\* Prepare pharmaceutical scholars and researchers through professional, undergraduate, graduate and post-doctoral programmes of distinction;

\* Conduct postgraduate education to advance the knowledge, expertise and competence of pharmacists and pharmaceutical scientists;

\* Analyse and apply knowledge about pharmaceutical products and services, and their use in society through basic and applied research and to advance, communicate and preserve that knowledge;

\* Promote, facilitate and conduct educational programmes to extend the knowledge of drugs and the rational and cost-effective use of medicines.

The course for the BPharm degree is four years' duration. The degree meets the academic requirements laid down by the South African Pharmacy Council and entitles holders who are either South African Citizens or permanent residents to apply for registration as a pharmacist after serving an internship and subsequently completing one year of community service in the public sector.

The University is prepared to consider recognizing prior learning by granting credits to students who have obtained credits in such courses or equivalent courses at another university or institution recognised by the Senate for the purpose, subject to the provisions of Rule G.46 of the General Rules.

The number of places in second-year Pharmacy is limited. Preference will be given to students who have completed their first year at Rhodes University.

Performance in a course is assessed in terms of:

- (a) the results of prescribed examinations; and/or  
(b) assessment of such essays, exercises, tests, reports, assignments and practical work as may be prescribed for a course.

The registration in the Faculty of Pharmacy of any student who is convicted for the illegal use or possession of any drug or medicinal substance in a court of law (in any country) may be terminated by the Vice-Chancellor after consultation with the Dean of the Faculty of Pharmacy.

### RULES FOR DEGREES

See the General Rules applicable to all Faculties. The following Rules apply to the Faculty of Pharmacy only.

Subject to any exceptions approved by the Senate, the last date for registration and change of course in the Faculty of Pharmacy shall be the end of the second week of the first term.

The following degrees may be awarded in the Faculty of Pharmacy:

Name	To be denoted by the letters
Bachelor of Pharmacy	BPharm
Master of Science	MSc(Pharm)
Master of Pharmacy	MPharm
Doctor of Pharmacy	PharmD
Doctor of Philosophy	PhD
Doctor of Science	DSc

### DEGREE OF BACHELOR OF PHARMACY

The BPharm degree is registered on the NQF as a level 7 qualification.

#### P.1

Candidates shall not be admitted to the degree unless they have attended approved courses for at least four years subsequent to their first registration as a matriculated student.

#### P.2

Normally candidates shall not be admitted to the courses for the degree of Bachelor of Pharmacy unless they have:

2.1 obtained the National Senior Certificate with endorsement for degree studies; and

2.2 obtained at least a rating of 4 in Mathematics in the National Senior Certificate; or

2.2.1 a pass in Mathematics deemed to be the equivalent of the above, in another examination, and

2.2.2 a rating of 4 in Physical Science and Biology in the National Senior Certificate examination; or

2.2.3 a pass in Physical Science and Biology deemed to be equivalent to one of the above, in another examination.

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*NB Because of limited facilities the Faculty reserves the right to limit the intake to the top 80 eligible students into the second year of study towards the BPharm Degree. Preference will be given to those students who have completed their first year in the Faculties of Pharmacy or Science at Rhodes University.*

### P.3

Candidates shall not be admitted to the degree of BPharm unless they have:

3.1 obtained credit in all courses of the following curriculum: (with the consent of the Board of the

Faculty, courses may be taken in years other than those specified);

3.2 candidates who have obtained at least a rating of 5 in Computer Science in the National Senior Certificate or a pass in Computer Science deemed to be the equivalent of the above in another examination, may be permitted to take Computer Science 101 or Electronics 1E2 instead of Computer Science 1L;

3.3 obtained credit in electives chosen, with the approval of the Dean of the Faculty, from the electives listed under Rule P.10 or other courses approved by the Senate for this purpose;

3.4 passed the examination in Contraception.

## BACHELOR OF PHARMACY CURRICULUM

Code number	Course Title	Prerequisite (P) or Corequisite (C)	First semester			Second semester			Total credit points
			L	T	P	L	T	P	
<b>FIRST YEAR</b>									
	Cell Biology 101	See Departmental entries in Faculty of Science prospectus	5		1				3
	Zoology 101					5		1	3
	Chemistry 101		4	1	1				3
	Chemistry 102					4	1	1	3
	Introduction to ICT					4	1	1	3
	Mathematics 101					5	1		3
	Physics 1E1		4	1	1				3
	Statistics 101		4	2					3
PC101	Introduction to Pharmacy			1			1		
<b>SECOND YEAR</b>									
PC 210	Anatomy & Physiology	Cell Biology 101(P), Zoology 101(P), PC211(C)	4		.5	4		.5	4.5
PC 211	Pharmaceutical Biochem	Cell Biology 101(P), Zoology 101(P), Chemistry 101(P), Chemistry 102(P), PC220(C)	2	.5		2	.5		2.5
PC 220	Pharmaceutical Chem 2	Chemistry 101(P), Chemistry 102(P), PC211(C)	4	1	1	4	1	1	6
PC 230	Pharmaceutics 2	Chemistry 101(P), Chemistry 102(P), PC220(C)	4		.5	4		.5	4.5
PC 240	PharmAdmin&Practice2		2	.5		2	.5		2.5

**BACHELOR OF PHARMACY CURRICULUM (CONTINUED)**

Code number	Course Title	Prerequisite (P) or Corequisite (C)	First semester			Second semester			Total credit points
			L	T	P	L	T	P	
THIRD YEAR									
PC 321	Pharmaceutical Chem 3	PC220(P)	4		1	4		1	5
PC 331	Pharmaceutics 3	PC220(P) PC230(P)	5	.5	1	3	.5	1	5.5
PC 341	PharmAdmin&Practice3	PC240(P)	4	.5		3	.5		4
PC 350	Pharmacology 3	PC321(C) PC210(P) PC211(P)	6		.5	6		.5	6.5
FOURTH YEAR									
PC 422	Pharmaceutical Chem 4	PC321(P)	2			2			2
PC 432	Pharmaceutics 4	PC331(P) PC350(P)	3		1	3		1	4
PC 442	PharmAdmin&Practice 4	PC341(P) PC451(C)	4	.5	1	4	.5	1	5.5
PC 451	Pharmacology 4	PC350(P) PC442(C)	6	1		5	1		6.5
	Elective/Project		2			2			2
PC 490	Special Project		2			2			2
	2 Electives (1 credit point each)		2x1			2x1			2

**P.4**

4.1 Candidates may not take any courses from the second year of the BPharm until they have obtained credit in at least Chemistry 101, Chemistry 102 (or CHE 1), Cell Biology 101, Zoology 101 (or BIO 1), Introduction to Pharmacy, and any two other semester courses listed in the first year curriculum.

4.2 Students repeating second-year courses with a total value exceeding six credit points will be denied entry into later courses. With the permission of the Dean, candidates carrying six or fewer credit points from their second year may be admitted to the appropriate third-year courses.

4.3 Students transferring from other universities may not normally take courses from the second year of the BPharm curriculum unless they have obtained credits in courses deemed to be equivalent to those listed in the first-year BPharm curriculum.

4.4 Normally, candidates will not be permitted to register for any course more than twice.

**P.5**

5.1 Before admission to a course, a candidate must have obtained credit in all the prerequisites for that course except as provided for in 5.2 below.

5.2 On the recommendation of the Dean, Senate may permit a candidate to repeat one prerequisite course concurrently with the courses for which it is designated a prerequisite provided that

5.2.1 credit has been obtained in all other prerequisite courses, and that

5.2.2 such permission will not be granted in respect

of courses which themselves lead to more advanced courses in the same subject area.

5.3 Credit in a course will be conditional on obtaining a pass in its prerequisite courses.

**P.6**

Pharmacology 4 and Pharmacy Administration and Practice 4 may be taken only in the year in which a candidate is in a position to complete all the requirements for the degree.

**P.7**

Candidates in other than the first academic year may, at the Dean's discretion, be granted a supplementary examination in one of the courses for which they are registered, provided that:

7.1 they are taking the full complement of courses for that year;

7.2 they have failed no other courses in that year;

7.3 they have no examination outstanding for that year of study.

**P.8**

8.1 Courses in the Faculty of Pharmacy are measured in terms of credit points, one lecture (or tutorial) period or one laboratory period per week over a full academic year being counted as one credit point.

8.2 Candidates must have the permission of the Dean to undertake a work-load exceeding 21 credit points in the second, third and fourth years.

8.3 Candidates may not undertake a work-load exceeding 24.5 credit points.

8.4 For the purpose of General Rule G.46.2, credit in

courses to a total of 43 credit points must be obtained at the University towards the degree.

**P.9**

The degree certificate of a candidate who passes with an average of not less than 3,0 merit marks per credit point in all courses of the second year and subsequent years shall be endorsed “with distinction”. Merit marks are awarded in respect of each course on the basis of the credit points of the course multiplied by the numerical value of the class as follows:

Class	Numerical value
I	4
II (Div.1)	3
II (Div.2)	2
III	1

**P.10**

The following may be offered as electives in a particular calendar year, depending on available expertise and infrastructure:

PPC 428 Pharmaceutical Research Techniques

PC 436 Bioavailability and Bioequivalence

PC 437 Dermatopharmacy

PC 438 Drug Regulation

PC 445 Pharmaceutical Care

PC 461 Drug Information

PC 447 Counselling

PC 448 Managed Care Pharmacy

PC 455 Toxicology

PC 459 Dermatology

PC 460 Nutrition

PC 462 Paediatric Pharmacy

PC 464 The role of the pharmacist in promoting patient-centred collaborative care in chronic conditions

PC 465 Pharmacovigilance

PC 444 isiXhosa for Pharmacy

PC 470 Special Elective

PC 490 Special Project

**P.11**

The Calendar for the year in which students enter the second-year programme will govern their curriculum for the BPharm degree.

**DEGREES OF MASTER OF SCIENCE AND MASTER OF PHARMACY**

See General Rules and entry under Master’s Degrees, Faculty of Pharmacy, in the Academic Departments section of the Calendar.

**DOCTOR OF PHARMACY DEGREE (PharmD)**

The programme leading to the PharmD degree is of three years’ duration, taken full time in attendance at an approved clinical site.

**P.12**

Candidates shall not be admitted to the degree unless they have completed the approved research rotations in the three year PharmD programme undertaken subsequent to their registration as a pharmacist with the South African Pharmacy Council.

**P.13**

Candidates shall not be admitted to the courses for the degree of Doctor of Pharmacy programme unless they have obtained an undergraduate degree in Pharmacy and are registered as a pharmacist with the South African Pharmacy Council.

NB Because of limited facilities the Faculty reserves the right to limit the intake to the Doctor of Pharmacy Degree.

**P.14**

14.1 Candidates will not be admitted to the degree of PharmD unless they have obtained credit in all the research rotations of the following curriculum.

Code Number	Course Title	Total Credit Points
<b>First Year</b>		
PC 911	Introduction to the Pharmaceutical Care Process	30
PC 912	Pharmaceutical Systems and Management Practices	30
PC 913	Advanced Pharmaceutical Care: Paediatrics	30
PC 914	Advanced Pharmaceutical Care: Infectious Diseases	30
<b>Second Year</b>		
PC 921	Advanced Pharmaceutical Care: Cardiovascular Disorders	30
PC 922	Advanced Pharmaceutical Care: Psychiatry	30
PC 923	Advanced Pharmaceutical Care: Endocrine Disorders	30
PC 924	Advanced Pharmaceutical Care: Surgery	30

Code Number	Course Title	Total Credit Points
Third Year		
PC 931	Elective Research Project	30
PC 932	Advanced Pharmaceutical Care: Immunologic Disorders	30
PC 933	Therapeutic Drug Monitoring	30
PC 934	Advanced Pharmaceutical Care: Intensive Care	30

14.2 Candidates who have obtained credits in research rotations deemed to be equivalent to those listed in the above curriculum may be granted credits in those rotations.

**P.15**

15.1 Notwithstanding the provisions of rule P.8 the courses for the PharmD degree are measured in terms of 30 credits per course and 120 credits per year.

15.2 Each credit is counted as equivalent to 10 notional hours.

**P.16**

16.1 Normally, candidates must successfully have completed two research rotations and have submitted a third one for examination prior to proceeding to a subsequent year of study.

16.2 Normally, candidates must submit the fourth research report by the end of March of the following year in order to continue in the second or third year of study.

16.3 The elective research project conducted in the final year of the PharmD programme may be undertaken in any of the research areas covered in the various rotations of the PharmD Curriculum.

16.4 Each rotation will be examined independently as partial fulfillment of the requirements for admission to the Doctor of Pharmacy degree.

**DOCTOR OF PHARMACY DEGREE**

See the entry under the Doctor of Pharmacy (PharmD) Degree, Faculty of Pharmacy, in the Academic Departments section of the Calendar.

**DOCTOR OF PHILOSOPHY AND DOCTOR OF SCIENCE**

See General Rules.