

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 of four years duration. The degree meets the academic requirements as 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 completing an internship and subsequently serving 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 this purpose, subject to the provisions of Rule G.46 of the General Rules.

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 illicit 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..

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 8 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 either the National Senior Certificate with Bachelor status, or obtained a matric exemption certificate from the Board.

2.2 obtained at least a rating of 6 for Mathematics, Life Sciences and Physical Sciences to receive a firm offer.

2.3 Mathematical Literacy will not be considered.

2.4 if a candidate has 45 points and above they may receive a firm offer, if between 35 and 44 points then admission will be at the Dean's Discretion. Normally candidates who have 34 points or less are likely to be rejected.

2.5 candidates who have obtained a matric exemption of the Joint Matriculation Board must normally

have obtained at least a D symbol in Mathematics, Physical Science and Biology on the Higher Grade.

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 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.9 or other courses approved by the Senate for this purpose;

P.4

4.1.1 Candidates in first year may not take Chemistry 102 or Pharmaceutical Biochemistry 1 if they have not obtained a credit for Chemistry 101, or are awarded a re-write for Chemistry 101.

4.1.2 Candidates who fail the subminimum for Chemistry 101 may be permitted to take Chemistry 1R and will not be able to register for Chemistry 102 or Pharmaceutical Biochemistry 1.

4.1.3 Candidates in first year who fail Cell Biology and are not awarded a re-write may not continue with Pharmacy Anatomy and Physiology 1.

4.1.4 Candidates in first year who fail either Introduction to ICT or Mathematics for Life Sciences with or without the option of a re—write may continue with second semester subjects unless they have also failed Chemistry 101 or Cell Biology without the possibility of a re-write.

4.1.5 Candidates in first year who fail all four first semester subjects will be excluded.

4.2 Normally students repeating second-year courses with a total value exceeding 50 or more credit points will be denied entry into later courses. With the permission of the Dean, candidates carrying 50 or fewer credit points from their second year may be admitted to the appropriate third-year courses.

4.3 Normally students repeating third-year courses with a total value exceeding 60 or more credit points will be denied entry into later courses. With the permission of the Dean, candidates carrying 60 or fewer credit points from their third year may be admitted to the appropriate fourth-year courses.

4.4 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.

4.5 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 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 normally 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

At the Dean's discretion, candidates may be granted a supplementary examination in one of the courses for which they are registered – other than in the first year of study - 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.7

8.1 Courses in the Faculty of Pharmacy are measured in terms of credit points. Each credit point is based on the notional hours that an average student would require to master the content and develop skills in a subject. In this respect in the BPharm curriculum one credit point is equivalent to 10 notional hours.

8.2 Candidates must have the permission of the Dean to undertake a work-load exceeding 120 credit points in the first and second year, and 135 credit points in the third and fourth years.

8.3 For the purpose of General Rule G.46.2, credit in courses to a total of 360 credit points must be obtained at the University towards the degree.

P.8

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

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BACHELOR OF PHARMACY CURRICULUM

Code number	Course Title	Prerequisite (P) or Co-requisite (C)	First semester			Second semester			Total credit points
			L	T	P	L	T	P	
FIRST YEAR									
CEL 101	Cell Biology 101	See Departmental entries in Faculty of Science prospectus for first semester subjects	5		1				15
CHE 101	Chemistry 101		5		1				15
CSC 1L	Introduction to ICT		4	1	1				15
MAT 1S	Mathematics for the Life Sciences		5	1					15
CHE 102	Chemistry 102					5		1	15
PC 111	Pharmaceutical Biochemistry 1					5			10
PC 110	Pharmacy Anatomy and Physiology 1					5		1	20
PC 101	Foundations of Pharmacy					5			15
SECOND YEAR									
PC 250	Anatomy Physiology, Pathophysiology & Pathology	Cell Biology (CEL 101)(P)	4		0.5	4		0.5	25
PC 221	Pharmaceutical Biochemistry, Microbiology & Immunology	Cell Biology (CEL 101) (P), Chemistry 101(P), Chemistry 102(P), PC222(C)	3			3		0.25	20
PC 222	Pharmaceutical Chemistry 2	Chemistry 101(P), Chemistry 102(P), PC221(C)	4		0.5	4		0.5	25
PC 231	Pharmaceutics 2	Chemistry 101(P), PC 101 (P) Chemistry 102(P), PC222(C)	4		0.5	4		0.5	25
PC 241	Pharmacy Practice 2	PC 101 (P)	4		0.5	4		0.5	25
THIRD YEAR									
PC 322	Pharmaceutical Chemistry 3	PC222(P)	4		0.5	4		0.5	30
PC 332	Pharmaceutics 3	PC222(P) PC231(P)	4		0.5	4		0.5	30
PC 342	Pharmacy Practice 3	PC241(P)	4		0.5	4		0.5	30
PC 351	Pharmacology 3	PC322(C) PC250(P) PC221(P)	4		0.5	4		0.5	30
PC 301	Biostatistics		4	1					15
FOURTH YEAR									
	Pharmacology 4	PC 351(P)	4	1	0.5				15
	Pharmaceutics 4	PC322(P) PC332(P)	3		1				15
	Pharmacy Practice 4	PC342(P) PC351(P)	4		1				15
	Research Project								30
	Elective courses in Pharmacy								2x 15
	Elective course in other departments								1x 30
	Pharmacotherapy								30

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.9

9.1 All candidates must complete elective courses to the value of 30 credit points to be admitted to the degree.

9.2 All candidates must take two elective courses offered within the Faculty of Pharmacy or a full year course offered by any department in another Faculty that are relevant to Pharmacy and can be accommodated in the BPharm 4 timetable.

9.3 For the purposes of 9.2 an elective course within the Faculty will count 15 credit points and a full year course 30 credit points.

9.4 The elective courses offered within the Faculty of Pharmacy will be dependent on relevance to the Pharmacy profession, staff availability and expertise..

9.5. With the permission of the Dean and subject to the provision of rules P.4 and P.7 candidates may take elective courses in the second and third year of study provided they are courses offered by other departments and can be accommodated into the timetable.

P.10

All candidates must complete a research project to the value of 30 credit points to be admitted to the degree

P.11

The Calendar for the year in which students enter the first-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

normally 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.

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.7 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 fulfilment 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

FACULTY OF PHARMACY

Academic Departments section of the Calendar.

DOCTOR OF PHILOSOPHY AND DOCTOR OF SCIENCE

See General Rules.

Code Number	Course Title	Total Credit Points
First Year		
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

Second Year		
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

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