

Course options for exchange students at the

Department of Pharmacy

(LMU Munich)

Abbrev.:

SE: State exam courses

BSc: Bachelor courses

FS: Semester

General notes:

- All examinations are held in German, unless otherwise agreed.
- Please note that you are responsible for ensuring that there are **no time overlaps** between the courses you have chosen. So please check the timetables on the homepage beforehand.
- Attendance list: To receive credit points for a lecture, you must prove regular attendance. This is documented by an attendance list, which must be signed by the lecturer after each class.

Comments on the courses Pharmacy (state examination) study program (SE)

- Please note that no module examinations are offered in the state examination (SE) course, but the examinations cover the content of the lab courses and seminars (not the content of the lecture). All examinations are held in German, unless otherwise agreed.

Comments on the courses B.Sc. Pharmaceutical Sciences (BSc)

- Please note that some modules cover two semesters, meaning that you must attend the module for two semesters to take the exam. If you only wish to attend part of a module (e.g., a lecture), we cannot issue you a grade at the end unless this has been agreed upon in advance.

Pharmaceutical Chemistry

Study program; Module no.	LSF-ID	Course title	Type of event	ECTS	Prerequisites	Examination	Comment
B.Sc.; P1.1	T1AA-BLN	Allgemeine und Anorganische Chemie	Lecture	6	--	Written examination	Winter semester only
B.Sc.; P1.2	18600	Allgemeine und Anorganische Chemie	Exercise	3	--		
B.Sc.; P1.3	18072/ 18172	Allgemeine und Anorganische Chemie	Lab course	4	--		
B.Sc.; P1.4	18072/ 18172	Allgemeine und Anorganische Chemie	Seminar	2	--		
SE	18007	Quantitative Bestimmung von Arznei-, Hilfs-	Lab course	10	Successful completion of <i>Allgemeine</i>	Oral or written examination	Please note that the seminar

		und Schadstoffen (unter Einbeziehung von Arzneibuch-Methoden)			<i>und anorganische Chemie</i> or comparable prior knowledge		accompanying the practical course must be attended at the same time (see timetable)
B.Sc.; P4.1	18084	Quantitative Anorganische Analytik	Seminar	2	--	Written examination	Summer semester only
B.Sc.: P4.2	18013	Stöchiometrie	Exercise	2	--		
B.Sc.: P4.3	18140	Elektrochemische Methoden	Lecture	2	--		
B.Sc.: P4.4	18090	Quantitative Anorganische Analytik	Lab course	3	Successful completion of P1 or comparable prior knowledge	lab course report	
B.Sc.; P5.1	T1BC-BLN	Grundlagen der Organischen Chemie	Lecture	6	Successful completion of P1 or comparable prior knowledge and regular Participation in P5.4 for exam admission	Written examination	Summer semester only
B.Sc.; P5.2	18325	Grundlagen der Organischen Chemie	Exercise	1			
B.Sc.; P5.3	18250	Nomenklatur	Seminar	1			
B.Sc.; P5.4	18029	Einführung in die Methoden der Organischen Synthese	Lab course	4			
SE	18011	Chemische Nomenklatur	Seminar	1	--	Regular attendance certificate	Every semester
SE	18025	Chemie einschließlich der Analytik der organischen Arzneistoffe, Hilfsstoffe und Schadstoffe	Lab course	12	Completion of a module including a practical laboratory course in chemistry of at least 10 ECTS	Written examination	Please note that the seminar accompanying the practical course must be attended at the same time (see timetable)
B.Sc.; P7.1	18070	Vertiefende Organische Chemie	Lecture	4	--	Written examination	Winter semester only
B.Sc.; P7.2	18012	Stereochemie	Seminar	1			
B.Sc.; P7.3	18073	Synthese und Analytik	Seminar	1			

		organischer Verbindungen					
B.Sc.; P7.4,	18076	Synthese und Analytik organischer Verbindungen	Lab course	6	Regular participation in P5.4 for admission to P7.4 or comparable prior knowledge		
B.Sc.; P8.1	18071	Instrumentelle Analytik	Lecture	3	--	--	Winter semester only
B.Sc.; P8.2	18222	Strukturaufklärung	Seminar	3	--	Written Examination	Summer semester only
B.Sc.; P8.3	18393	Spektroskopische und chromatographische Methoden der Analytik	Lab course	3	Regular participation in P3.3 and P7.4 (or comparable knowledge) for admission to P8.3	Lab course report	
SE	18221	Einführung in die instrumentelle Analytik	Lecture	3	--	Regular attendance certificate	
SE	18070	Pharmazeutische / Medizinische Chemie I	Lecture	3	--	Regular attendance certificate	Winter semester only
SE	18027	Arzneistoffanalytik unter besonderer Berücksichtigung der Arzneibücher	Lab course	8	--	Written examination	Please note that the seminar accompanying the practical course must be attended at the same time (see timetable)
SE	18150	Pharmazeutische und Medizinische Chemie III-IV	Lecture	3	--	Regular attendance certificate	
SE	18008	Arzneimittelanalytik (Drug Monitoring, toxikologische und umweltrelevante Untersuchungen)	Lab course	12	--	Written examination	
M.Sc.; P4.1	18090	Drug Design	Lecture	3	--	Written examination	Winter semester only
M.Sc.; P4.3	18114	Drug Monitoring und Wirkstoffanalytik	Lab course	1	--		Summer semester only

Pharmaceutical Biology

Study program; Module no.	LSF-ID	Course title	Type of event	ECTS	Prerequisites	Examination	Comment
SE	18032	Allgemeine Biologie für Pharmazeuten Teil I	Lecture	3	--	Regular attendance certificate	Winter semester only
B.Sc.; P2.1	18078	Grundlagen der Biologie (Vorlesung)	Lecture	4	Regular participation in P2.3 (Grundlagen der Biologie-Praktikum) for exam admission	Written examination	Winter semester only
B.Sc.; P2.2	18079	Grundlagen der Biologie (Übung)	Exercise	2			
B.Sc.; P2.3	18082	Grundlagen der Biologie (Praktikum)	Lab course	4			
B.Sc.; P2.4	18082	Grundlagen der Biologie (Seminar)	Seminar	2			
SE	18300	Microbiology	Lab course	3	--	Written examination	Winter semester only
SE	18242	Systematische Einteilung und Physiologie der pathogenen und arzneistoffproduzierenden Organismen	Lecture	2	--	Attendance list	--
SE	18010	Pharmazeutische Biologie; Phytopharmaka	Lecture	1	--	Regular attendance certificate	--
B.Sc.; P10.1	18077	Biochemie und Molekularbiologie	Lecture	3	Regular participation in P10.3 for exam admission, successful completion of P2 or comparable prior knowledges	Written examination	Winter semester only
B.Sc.; P10.2	18031	Biochemie und Molekulare Medizin	Lecture	5			Summer semester only
B.Sc.; P10.3	18392	Biochemische und molekularbiologische Methoden	Lab course	6			
B.Sc.; P10.4	18392	Seminar zum Praktikum Biochemische und molekularbiologische Methoden	Seminar	1			

Pharmacology

Study program; Module no.	LSF-ID	Course title	Type of event	ECTS	Prerequisites	Examination	Comment
SE	18063	Kursus der Physiologie (4. FS, SE)	Lab course	2	--	Written or oral examination	Should be attended together with the lecture Fundamentals of Anatomy and Physiology (18524)
B.Sc.; P14.1	18085	Grundlagen der Pharmakologie 1	Lecture	3	--	Written examination after completion of P14.2	Winter semester only
B.Sc.; P14.2	18370	Grundlagen der Pharmakologie 2	Lecture	6			Summer semester only
M.Sc.; P1.1	18114	Integrierte Pharmakologie, Vertiefung, Bereich A	Lecture	3	--	Participation at P1.2 for exam admission Written examination	Winter semester only
M.Sc.; P1.2	18116	Molekulare und klinische Aspekte der Pharmakologie	Seminar	6			
M.Sc.; P1.3	18037	Integrierte Pharmakologie, Vertiefung, Bereich B	Lecture	3			Summer semester only

Pharmaceutical Technology

Study program; Module no.	LSF-ID	Course title	Type of event	ECTS	Prerequisites	Examination	Comment
B.Sc.; P9.1	18045	Grundlagen der Pharmazeutischen Technologie	Lecture	3	Regular participation in P3.3 and P5.4 for admission to P9.2 or comparable prior knowledge	Written examination, laboratory course report	Winter semester only
B.Sc.; P9.2	18084	Grundlagen der Pharmazeutischen Technologie	Lab course	3			
B.Sc.; P15.1	18046	Pharmazeutische Technologie – Phasensysteme	Lecture	3	Regular participation in P15.2 and P15.3 for exam admission and successful completion of P8.3 and P9 or comparable prior knowledge	Oral examination	Summer semester only
B.Sc.; P15.2	18360	Pharmazeutische Technologie für Fortgeschrittene	Lab course	6			
B.Sc.; P15.3	18360	Projektarbeit Pharmazeutische Technologie	Lab course	3			

Clinical pharmacy

Study program; Module no.	LSF-ID	Course title	Type of event	ECTS	Prerequisites	Examination	Comment
SE	18190	Grundlagen der klinischen Pharmazie	Lecture	1		Oral examination (see Klinische Pharmazie 1)	
SE	18019	Klinische Pharmazie I	Seminar	1		Oral examination	
SE	18036	Klinische Pharmazie II	Seminar	1		Oral or written examination	
SE	18060	Klinische Pharmazie III	Seminar	1	Basics in pharmacology	Oral examination	
SE	18180	Pharmakotherapie	Seminar + exercise	4	Basics in pharmacology	Attendance list	

Diverse

Study program; Module no.	LSF-ID	Course title	Type of event	ECTS	Prerequisites	Examination	Comment
SE	16289	Mathematische und statistische Methoden für Pharmazeuten	Seminar			Written examination	
SE	18201	Toxikologie der Hilfsstoffe und Schadstoffe Teil I	Seminar			Attendance list	
SE	18068	Pharmazeutische und medizinische Terminologie	Seminar			Oral presentation	
SE	18199	Geschichte der Naturwissenschaften unter Berücksichtigung der Pharmazie	Lecture			Attendance list	
SE	18000	Physik für Pharmazeuten	Lecture			Attendance list	
SE		Spezielle Rechtsgebiete für Apotheker	Lecture			Attendance list	Winter semester only
SE B.Sc.; WP1/I-4/I		Wahlpflichtfach (research project)	Lab course	3	For BSc: Successful completion of P 5 and at P 7.4, and/or successful completion of P 2, and/or successful completion of P 9, and/or successful completion of P 2 and regular attendance at P 6.3	regular attendance; oral examination or presentation	Availability depending on capacity, 2 weeks SE & 3 weeks BSc
B.Sc.; WP5-7	18089/ 18189	Scientific Writing bzw. Scientific Präsentation bzw. Patentrecht,	Seminar	2			Winter semester only
B.Sc.; P6.1	18525	Grundlagen der Anatomie und Physiologie 1	Lecture	3		Written examination	Summer semester only
B.Sc.; P6.2	18086	Grundlagen der Anatomie und Physiologie 2	Lecture	3			Winter semester only
B.Sc.; P6.3	18088	Physiologie und Anatomie	Lab course	3			
B.Sc.; P11.1	18300	Grundlagen der Immunologie und der Immunpathologie	Lecture	3		Written examination	Summer semester only
B.Sc.; P11.2	18300	Immuntherapeutika, biogene und	Lecture	3			Winter semester only

		rekombinante Arzneistoffe					
B.Sc.; P11.3	18080	Methoden in den Life Sciences	Seminar	3			
B.Sc.; P16		Bachelorarbeit,	Lab course	12	Participation at P1-P10 und WP	Bachelor's thesis	
M.Sc.; P5.1		Aktuelle Forschungsergeb nisse in den Pharmazeutische n Wissenschaften, Vertiefungssemin ar I	Seminar	3		Written or oral project report or presentation	
M.Sc.; P5.2		Aktuelle Forschungsergeb nisse in den Pharmazeutische n Wissenschaften, Vertiefungssemin ar II	Seminar	3			
M.Sc.; WP1.1-4.1		Fortgeschrittenen praktikum im Fach ... , Bereich A		11		Written or oral examination or presentation	
M.Sc.; WP1.1-4.2		Anleitung zum wiss. Arbeiten, Bereich A		1			
M.Sc.; WP1.1-8.1		Fortgeschrittenen praktikum im Fach ... , Bereich B		20		Written or oral examination or presentation	
M.Sc.; WP1.1-8.2		Anleitung zum wiss. Arbeiten, Bereich B		1			
M.Sc.; P6.1		Masterarbeit		28		The final examination consists of the master's thesis and their results. Students will be required to present the results of their research to a panel of experts, position their results in context of pharmaceutic al sciences (in particular, the specialised field of their master's	
M.Sc.; P6.2		Abschlussprüfun g		5			

						thesis and one further field), and discuss the results.	
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