

Study program Pharmacy - RECOMMENDED STUDY PLAN FOR THE ACADEMIC YEAR 2026/2027

COMPULSORY SUBJECTS

1st section of the study

Compulsory subjects	Guarantor	Number of lessons WS			Form of control	Number of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Pharmacist in practice	Hendrychová	22	6	0	C					3
Physical Pharmacy I	Kuchařová	28	0	0	E					3
Applied Mathematics	Duintjer Tebbens	14	14	0	C+E					2
General and Bioinorganic Chemistry	Roh	28	20	0	C+E					6
Cell Biology	Svobodová	28	0	0	E					3
General Organic Chemistry	Pour	28	20	0	C+E					6
First Aid	Truhlář	0	6	8	C					1
Pharmaceutical Botany I	Negar Maafi	24	4	10	C					3
English Language for Pharmacists I	Clubb	0	28	0	C					1
Pharmaceutical Botany II	Chlebek					42	6	20	C+E	6
English Language for Pharmacists II	Clubb					0	28	0	C+E	2
Physical Pharmacy II	Pavlíková Přecechtělová					28	0	28	C+E	5
Organic Chemistry	Kitson					28	20	0	C+E	6
Bioorganic Chemistry	Vinšová					14	0	0	C	2
Chemical Laboratory Technique	Kitson					0	10	42	C	3
Propaedeutical Apothecary Practice	Doseděl							40	C	2
Total number of Hours		172	98	18		112	64	130		
NUMBER OF CREDITS -COMPULSORY SUBJECTS:										54

*) The enrolment of the subject is regulated in the document Prerequisites

2nd section of the study

Compulsory subjects	Guarantor	Number of lessons WS			Form of control	Number of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Human Morphology and Physiology	Hronek	56	5	15	C+E					8
Immunology	Urbánková - Rathouská	42	0	0	E					4
Analytical Chemistry (exam together with exam from Instrumental Methods)	Horstkotte	16	16	30	C					3
General Biochemistry	Wsól	56	6	36	C+E					8
Instrumental Methods	Horstkotte					12	12	28	C+E	5
Pharmacognosy I	Cahlíková					28	0	28	C	4
Pathological Physiology for Pharmacists	Nachtigal					42	14	0	C+E	7
Molecular Biology and Genetics	Šimůnek					36	0	0	E	3
Pharmaceutical Chemistry I	Zimčík					42	14	56	C	5
Microbiology	Konečná					32	0	0	E	3
Czech language	Novická								E	3
Total number of Hours		170	27	81		192	40	112		
NUMBER OF CREDITS - COMPULSORY SUBJECTS:										55

3rd section of the study

Compulsory subjects	Guarantor	Number of lessons WS			Form of control	Number of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Pharmacognosy II	Cahlíková	28	0	42	C+E					7
Biological Drugs	Miletín	14	0	0	E					1
Pharmaceutical Analysis II	Kučera	28	8	34	C+E					7
Law and Ethics for Pharmacists	Hendrychová	20	0	0	E					2
Physical Principles of Dosage Forms	Paraskevopoulos	28	0	0	E					2
Pharmacology I	Štaud	56	42	0	C					5
Pharmacology II	Štaud					56	42	0	C+E	9
Pharmaceutical Chemistry I	Doležal, M.	42	14	56	C					4
Pharmaceutical Chemistry II	Doležal M.					42	14	0	C+E	8
Economics and Management of Pharmaceutical Practice	Šorf					20	0	0	E	3
Pharmaceutical Technology I	Vraníková					56	20	50	C	5
Toxicology for Pharmacists	Pourová					28	0	0	E	2
Total number of Hours		216	64	132		202	76	50		
NUMBER OF CREDITS - COMPULSORY SUBJECTS:										55

4th section of the study

Compulsory subjects	Guarantor	Number of lessons WS			Form of control	Number of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Medical Devices	Svačinová	20	2	0	C+E					2
Clinical Pharmacy I	Fialová	70	36	0	C+E					8
Communication Skills for Pharmacists	Pokladníková	14	14	0	C+E					2
Social Pharmacy	Malý	46	13	0	C+E					5
Pharmaceutical Technology II	Vraníková	56	35	35	C+E					12
Pharmaceutical Care I	Malý	46	19	0	C+E					6
Pharmaceutical Care II	Malý					51	47	6	C+E	8
Diploma Thesis I	Vávrová								C	9
Professional Pharmacy Practice I	Malá						4 weeks		C	5
Total number of Hours		252	119	35		51	47	6		
NUMBER OF CREDITS - COMPULSORY SUBJECTS:										57

5th section of the study

Compulsory subjects	Guarantor	Number of lessons WS			Form of control	Number of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Pharmacist in Healthcare Practice	Hendrychová	10	0	0	E					2
Professional Pharmacy Practice II	Malá		19 weeks		C					36
Diploma Thesis II	Vávrová			252	C					22
Total number of Hours		10	0	252						
NR OF CREDITS - COMPULSORY SUBJECTS:										60

ELECTIVE SUBJECTS INCLUDED IN AREAS OF SPECIALIZATION

Area of Specialization: Pharmaceutical Analysis

Doc. Štěrbová

Guarantor /Study Consultant:

Doc. Sklenářová

Subject	Guarantor	Recommended year	Semester	L	S	P	Form of Control	Nr of Credits
Special Instrumental Methods – Lessons, min. 5 students	Sklenářová	3	WS	28	0	0	C	2
Special Instrumental Methods – Practical Classes, min. 5 students	Sklenářová	3	WS	0	6	36	C+E	4
Bioanalysis of Drugs, BD	Kučera	4	WS	28	12	16	C+E	5
				Lessons in Total			Credits in Total	
				56	18	52	11	

Area of Specialization: Pharmaceutical Chemistry

Guarantor /Study Consultant:

prof. M. Doležal

Subject	Guarantor	Recommended year	Semester	L	S	P	Form of Control	Number of Credits
The Technology of Synthetic Drugs	Doležal M.	3	SS	28	0	14	C+E	3
Methods of Organic Structure Elucidation (CL=10)	Kitson	3	SS	0	28	0	C+E	2
Advanced Organic Chemistry	Pour	3	WS	0	42	0	C+E	3
Basics of Molecular Modelling of Drugs	Zitko	4	WS	14	14	0	C+E	3
				Lessons in Total			Credits in Total	
				42	84	14	11	

Area of Specialization: Clinical Pharmacy
Guarantor /Study Consultant: prof. J. Vlček

Subject	Guarantor	Recommended year	Semester	L	S	P	Form of Control	Nr of Credits
Clinical- Pharmaceutical Care	Vlček	4	SS	0	50	0	C+E	6
				Lessons in Total			Credits in Total	
				0	50	0	6	

Area of Specialization: Drugs of Natural Origin
Guarantor /Study Consultant: prof. Cahlíková
doc. Siatka

Subject	Guarantor	Recommended year	Semester	L	S	P	Form of Control	Nr of Credits
The technology of Natural Drugs	Hulcová	3	SS	28	0	14	C+E	3
Biotechnology	Siatka	3	SS	28	14	0	C+E	3
Toxicity of Natural Substances – min 5 students	Chlebek	4	SS	28	0	0	E	3
Phytopharmaceuticals	Šafratová	4	WS	28	0	0	E	3
				Lessons in Total			Credits in Total	
				112	14	14	12	

Area of Specialization: Pharmaceutical Technology

Guarantor /Study Consultant: doc. Šklubalová

Subject	Guarantor	Recommended year	Semester	L	S	P	Form of Control	Nr of Credits
Industrial Production of Pharmaceutical Preparations (CL=6)*)	Smékalová	4	SS	10	10	40	C+E	4
Development of Pharmaceutical Products (CL=10)	Smékalová	4	WS	0	32	0	C+E	4
Selected methods of Pharmaceutical Technology (CL=6) *)	Mužiková	4	SS	0	14	28	C+E	4
				Lessons in Total			Credits in Total	
				10	56	68	12	

*) - incl. students study program Pharmaceutical Sciences

ELECTIVE SUBJECTS NOT INCLUDED IN AREAS OF SPECIALIZATION

Elective subjects not included in areas of specialization	Guarantor	WS			Form of Control	SS			Form of Control	Nr of Credits	Recommended year
		L	S	P		L	S	P			
Immunopharmacology (CL=30)	Urbánková - Rathouská					15	18	0	C+E	3	3
Pathological biochemistry	Boušová					42	0	0	E	4	2
Medicinal Plants Production (CL=10)	Hradiská Breiterová					28	0	14	C+E	3	3
Pharmacokinetics (CL 12)	Čečková					14	0	14	C+E	3	3
Experimental Pharmacodynamics (CL=16, incl. students in Czech L.)	Carazo					14	0	28	C+E	3	4
Veterinary Drugs	Vokřál	28	0	0	E					2	4
Radiopharmacy	Trejtnar	28	14	14	C+E					4	4
Technology of Cosmetics	Kováčik					27	0	0	E	2	4
Pharmacoeconomics and Health Technology Assessment	Klimesš	0	14	0	E					2	4
Gene Therapy	Miletín	14	14	0	C+E					2	4
Current Strategies in Pharmacotherapy *)	Hofman	14	0	0	E					2	4
Mass Spectrometry (min 5 students)	Nováková L.	28	14	14	C+E					5	4
Extemporaneous Preparation in Hospital Pharmacy (CL 3)	Šklubalová					0	28	12	C+E	4	4
Research Project II ¹⁾	Vávrová				C				C	6	4
Introduction to Integrative Medicine	Pokladníková					0	14	0	C+E	2	4
Total										43	

¹⁾ Credits in winter and summer semesters are granted by the vice-dean for science based on the presentation of results of the project at the Students Scientific Conference (usually in April)

OPTIONAL SUBJECTS

Optional Subjects	Guarantor	WS			Form of Control	SS			Form of Control	Nr of Credits	Recommended year
		P	S	C		P	S	C			
Exercises in General Chemistry	Matouš	0	14	0	C					1	1
Chemistry Bridging Course	Krátký	14	0	0	C					1	1
Physical Training and Sports I	Bezouška	0	0	28	C	0	0	28	C	2	1
Czech Language I ¹⁾	Novická	0	28	0	C	0	28	0	C	2	1
Exercises in Organic Chemistry	Vinšová					0	14	0	C	2	1
History of Pharmacy – min 5 students *)	Bolom Kotari					24	4	0	E	2	1
Applied Computer Technology	Bernhauerová					0	21	0	C	2	1
Practical classes from Cell Biology (CL 100)	Svobodová					0	7	14	C	2	1
Summer Sports Course 2) (CL 140)	Bezouška							1 week	C	2	1
Selected Methods of Laboratory Technique (CL=24)	Kitson	0	0	35	C					2	2
Physical Training and Sports II	Bezouška	0	0	28	C	0	0	28	C	2	2
Czech Language 1) II ¹⁾	Novická	0	28	0	C	0	28	0	C	2	2
Immunological methods (CL20)	Urbánková - Rathouská	0	14	7	C					2	2
Microbiology – practical classes (CL20)	Konečná					0	14	7	C	2	2
Introduction to Applied Bioinformatics	Matoušková					0	28	0	C+E	2	3
Phytochemical Methods (CL=12)	Jenčo	14	0	28	C+E					2	3
Xenobiochemistry	Wsól	28	14	0	C+E					3	3
Xenobiochemistry – practical classes	Wsól					0	0	28	C	2	3
Winter Sports Course	Bezouška			1 week	C					1	3
Physical Training and Sports III	Bezouška	0	0	28	C	0	0	28	C	2	3
Current Trends in the Development of Chemical Drugs	Kučerová M.					14	0	0	C	1	3
Research Project I ³⁾	Vávrová								C	2	3
Applied Statistics	Duintjer Tebbens	8	10	0	C					2	3

Optional Subjects	Guarantor	WS			Form of Control	SS			Form of Control	Nr of Credits	Recommended year
ERASMUS – Intensive study program **)	Mladěnka							40	C	3	3, 4
Optional Practice I,	Doseděl							40	C	2	2,3,4,5
Optional Practice II	Doseděl							80	C	3	2,3,4,5
Optional Practice III,	Doseděl							40	C	2	,3,4,5
Optional Practice IV	Doseděl							80	C	3	3,4,5

*) The course includes a excursion to the Czech Pharmaceutical Museum Kuks.

- 1) The Czech Language is optional, but passing the exam is compulsory! The duration of the course is 4 semesters. Students can register for the course only for the whole year, which means in the 1st and/or both semesters of the 2nd section of studies.
- 2) The course is held in July.
- 3) Credit is granted by the vice dean for science based on the presentation of the results of the project at the Students Scientific Conference (usually in April)

CL = capacity limit

****)** Student can register for the course retroactively after successfully passing the BIP selection interview

Conditions of FSE for students who started their studies before the academic year 2019/2020:Parts of FSE:

1) FSE – comprehensive exam from Pharmacognosy, Pharmaceutical Chemistry, Pharmaceutical Analysis, Pharmacology, Pharmaceutical Technology, and Social Pharmacy

2) Diploma Thesis Defense

It is possible to pass parts of FSE only after meeting the conditions of Article 8 of the Organizational Rules of Study and obtaining 300 credits.

Conditions of FSE for students who started their studies in the academic year 2019/2020 and later:

Parts of FSE	Conditions for taking parts of FSE	Recommended Section of Study
FSE 1 – Pharmacognosy	Pharmacognosy II - exam	3WS
FSE 2 – Pharmaceutical Analysis	Pharmaceutical Analysis II - exam	3WS
FSE 3 – Pharmacology	Pharmacology II - exam	3 SS
FSE 4 – Pharmaceutical Chemistry	Pharmaceutical Chemistry II - exam	3 SS
FSE 5 – Pharmaceutical Technology	Pharmaceutical Technology II - exam	4 WS
FSE 6 – Clinical Pharmacy (optional)	Clinical Pharmacy I - exam	4 SS
FSE 7 – 1) Pharmacotherapy and Pharmaceutical Care and Social Pharmacy	It is possible to pass parts of FSE only after meeting the conditions of Article 8 of Organizational Rules of Study at the Faculty of Pharmacy, Charles University, obtaining 300 credits, and after passing FSE 1 – 5 (or FSE 6)	5 SS
FSE 8 – Diploma Thesis Defense		5 SS