

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

COMPULSORY SUBJECT

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 GAF409	Hendrychová	22	6	0	C					3
	Physical Pharmacy I GAF408	Kuchařová	28	0	0	E					3
	Applied Mathematics GAF425	Duintjer Tebbens	14	14	0	C+E					2
GAF 390	General and Bioinorganic Chemistry	Roh	28	20	0	C+E					6
	Cell Biology GAF410	Svobodová	28	0	0	E					3
	General Organic Chemistry GAF426	Pour	28	20	0	C+E					6
	First Aid GAF127	Truhlář	0	6	8	C					1
	Pharmaceutical Botany I GAF337	Negar Maafi	24	4	10	C					3
GAF412	English Language for Pharmacists I	Clubb	0	28	0	C					1
	Pharmaceutical Botany II GAF414	Chlebek					42	6	20	C+E	6
GAF413	English Language for Pharmacists II	Clubb					0	28	0	C+E	2
	Physical Pharmacy II GAF427	Pavlíková Přecechtělová					28	0	28	C+E	5
	Organic Chemistry GAF411	Kitson					28	20	0	C+E	6
	Bioorganic Chemistry GAF293	Vinšová					14	0	0	C	2
GAF415	Chemical Laboratory Technique	Kitson					0	10	42	C	3
GAF113	Propaedeutical Apothecary Practice	Doseděl							40	C	2
	Total number of Hours										
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		
GAF181	Human Morphology and Physiology	Hronek	56	5	15	C+E					8
	Immunology GAF394	Urbánková - Rathouská	42	0	0	E					4
	Analytical Chemistry (exam together with exam from Instrumental Methods) GAF300	Horstkotte	16	16	30	C					3
	General Biochemistry GAF141	Wsól	56	6	36	C+E					8
	Instrumental Methods GAF429	Horstkotte					12	12	28	C+E	5
	Pharmacognosy I GAF430	Cahlíková					28	0	28	C	4
	Pathological Physiology for Pharmacists GAF137	Nachtigal					42	14	0	C+E	7
GAF432	Molecular Biology and Genetics	Šimůnek					36	0	0	E	3
	Pharmaceutical Chemistry I GAF431	Zimčík					42	14	56	C	5
	Microbiology GAF433	Konečná					32	0	0	E	3
GAF223	Professional Language Preparation	Novická								E	3
	Total number of Hours										
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 GAF	Cahlíková	28	0	42	C+E					7
	Biological Drugs GAF305	Miletín	14	0	0	E					1
GAF306	Pharmaceutical Analysis II	Kučera	28	8	34	C+E					7
GAF307	Law and Ethics for Pharmacists	Hendrychová	20	0	0	E					2
	Physical Principles of Dosage Forms GAF308	Paraskevopoulos	28	0	0	E					2
	Pharmacology I GAF339	Štaud	56	42	0	C					5
	Pharmacology II GAF340	Štaud					56	42	0	C+E	9
GAF341	Pharmaceutical Chemistry I	Doležal, M.	42	14	56	C					4
GAF342	Pharmaceutical Chemistry II	Doležal M.					42	14	0	C+E	8
GAF343	Economics and Management of Pharmaceutical Practice	Šorf					20	0	0	E	3
GAF344	Pharmaceutical Technology I	Vraníková					56	20	50	C	5
GAF158	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 GAF159	Svačinová	20	2	0	C+E					2
Clinical Pharmacy I GAF345	Fialová	70	36	0	C+E					8
Communication Skills for Pharmacists GAF151	Pokladníková	14	14	0	C+E					2
Social Pharmacy GAF351	Malý	46	13	0	C+E					5
GAF346 Pharmaceutical Technology II	Vraníková	56	35	35	C+E					12
Pharmaceutical Care I GAF347	Malý	46	19	0	C+E					6
Pharmaceutical Care II GAF348	Malý					51	47	6	C+E	8
Diploma Thesis I GAF377	Vávrová								C	9
Professional Experience in Pharmacy I GAF349	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		
GAF424	Pharmacist in Healthcare Practice	Hendrychová	10	0	0	E					2
	Professional Experience in Pharmacy II GAF363	Malá		19 weeks		C					36
	Diploma Thesis II GAF206	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
GAF313	Special Instrumental Methods – Lessons, min. 5 students	Sklenářová	3	WS	28	0	0	C	2
GAF314	Special Instrumental Methods – Practical Classes, min. 5 students	Sklenářová	3	WS	0	6	36	C+E	4
	Bioanalysis of Drugs, BD GAF315	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
GAF243	The Technology of Synthetic Drugs	Doležal M.	3	SS	28	0	14	C+E	3
	Methods of Organic Structure Elucidation (CL=10) GAF405	Kitson	3	SS	0	28	0	C+E	2
	Advanced Organic Chemistry GAF229	Pour	3	WS	0	42	0	C+E	3
GAF316	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 GAF317	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
GAF236 The technology of Natural Drugs	Suchánková	3	SS	28	0	14	C+E	3
Biotechnology GAF231	Siatka	3	SS	28	14	0	C+E	3
Toxicity of Natural Substances – min 5 students GAF353	Chlebek	4	SS	28	0	0	E	3
Phytopharmaceuticals GAF354	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)*) GAF378	Smékalová	4	SS	10	10	40	C+E	4
Development of Pharmaceutical Products (CL=10) GAF379	Smékalová	4	WS	0	32	0	C+E	4
Selected methods of Pharmaceutical Technology (CL=6) *) GAF352	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)GAF234	Urbánková - Rathouská					15	18	0	C+E	3	3
	Pathological biochemistry GAF474	Boušová					42	0	0	E	4	2
GAF238	Medicinal Plants Production (CL=10)	Hradiská Breiterová					28	0	14	C+E	3	3
	Pharmacokinetics (CL 12) GAF358	Hofman					14	0	14	C+E	3	3
GAF372	Experimental Pharmacodynamics (CL=16, incl. students in Czech L.)	Carazo					14	0	28	C+E	3	4
	Veterinary Drugs GAF404	Vokřál	28	0	0	E					2	4
	Radiopharmacy GAF248	Trejtnar	28	14	14	C+E					4	4
	Technology of Cosmetics GAF421	Kováčik					27	0	0	E	2	4
	Pharmacoeconomics and Health Technology Assessment GAF287	Klimesš	0	14	0	E					2	4
	Gene Therapy GAF325	Miletín	14	14	0	C+E					2	4
GAF360	Current Strategies in Pharmacotherapy *)	Červený	14	0	0	E					2	4
GAF423	Mass Spectrometry (min 5 students)	Nováková L.	28	14	14	C+E					5	4
	Extemporaneous Preparation in Hospital Pharmacy (CL 3) GAF327	Šklubalová					0	28	12	C+E	4	4
	Research Project II ¹⁾ GAF328	Vávrová				C				C	6	4
GAF290	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 GAF216	Matouš	0	14	0	C					1	1
	Chemistry Bridging Course GAF416	Krátký	14	0	0	C					1	1
	Physical Training and Sports I GAF012	Bezouška	0	0	28	C	0	0	28	C	2	1
	Czech Language I ¹⁾ GAF259	Novická	0	28	0	C	0	28	0	C	2	1
	Exercises in Organic Chemistry GAF417	Vinšová					0	20	0	C	2	1
GAF418	History of Pharmacy – min 5 students *)	Bolom Kotari					24	4	0	E	2	1
	Applied Computer Technology GAF392	Bernhauerová					0	21	0	C	2	1
	Practical classes from Cell Biology (CL 100) GAF393	Svobodová					0	7	14	C	2	1
GAF219	Summer Sports Course 2) (CL 140)	Bezouška							1 week	C	2	1
	Selected Methods of Laboratory Technique (CL=24) GAF400	Kitson	0	0	35	C					2	2
	Physical Training and Sports II GAF264	Bezouška	0	0	28	C	0	0	28	C	2	2
	Czech Language 1) II ¹⁾ GAF268	Novická	0	28	0	C	0	28	0	C	2	2
	Immunological methods (CL20) GAF396	Urbánková - Rathouská	0	14	7	C					2	2
GAF397	Microbiology – practical classes (CL20)	Konečná					0	14	7	C	2	2
GAF332	Introduction to Applied Bioinformatics	Matoušková					0	28	0	C+E	2	3
GAF226	Phytochemical Methods (CL=12)	Jenčo	14	0	28	C+E					2	3
	Xenobiochemistry GAF237	Wsól	28	14	0	C+E					3	3
GAF361	Xenobiochemistry – practical classes	Wsól					0	0	28	C	2	3
	Winter Sports Course GAF218	Bezouška			1 week	C					1	3
	Physical Training and Sports III GAF242	Bezouška	0	0	28	C	0	0	28	C	2	3

	Optional Subjects	Guarantor	WS			Form of Control	SS			Form of Control	Nr of Credits	Recommended year
GAF402	Current Trends in the Development of Chemical Drugs GAF244	Kučerová M.					14	0	0	C	1	3
	Research Project I ³⁾ GAF333	Vávrová								C	2	3
	Applied Statistics GAF401	Duintjer Tebbens	8	10	0	C					2	3
	ERASMUS – Intensive study program (**)	Mladěnka							40	C	3	3, 4
	Optional Practice I, GAF398	Doseděl							40	C	2	2,3,4,5
	Optional Practice II GAF419	Doseděl							80	C	3	2,3,4,5
	Optional Practice III, GAF399	Doseděl							40	C	2	,3,4,5
	Optional Practice IV GAF420	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, not available for ERASMUS incoming students**

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