

## CURRICULUM FOR THE ACADEMIC YEAR 2017/2018

Curriculum of the English Master Study Programme

**Pharmacy**

At the Faculty of Pharmacy

**University of Veterinary and Pharmaceutical Sciences Brno**

### First Year of Study

		<b>Teacher</b>	<b>Course</b>	ECTS	<b>Winter*</b>	<b>Summer*</b>
<b>Compulsory courses</b>	<b>3110/FAUD1</b>	Ambrus	Introduction to Study and History of Pharmacy	3	3/0/0 Ex	
	<b>3120/FABR1</b>	Babula	Botany I	4	2/0/2 Cr	
	<b>3140/FAOB1</b>	Kizek	Biology	5	2/2/0 Ex	
	<b>3140/FAPP1</b>	Frydrych	Premedical First Aid	2	1/0/1 Ex	
	<b>3140/FAMC1</b>	Chalupova	Human Morphology	4	2/1/0 Ex	
	<b>3150/FAAC1</b>	Gonec	General and Inorganic Chemistry	8	3/3/0 Ex	
	<b>9750/FAOL1</b>	Ritickova	Professional Latin I	1	0/0/1 Cr	
	<b>3110/FALE1</b>	Maceskova	Introduction to Pharmacy	3		1/0/1 Ex
	<b>3120/FABR2</b>	Babula	Botany II	5		2/0/2 Ex
	<b>3130/FASU1</b>	Vetchy	Physical Chemistry and Fundamentals of Colloids	6		2/2/0 Ex
	<b>3130/FABF1</b>	Muselik	Biophysics	3		2/0/0 Ex
	<b>3150/FAOC1</b>	Bobal	Organic Chemistry	10		5/4/0 Ex
	<b>9750/FAOL2</b>	Ritickova	Professional Latin II	3		0/0/2 Ex
				<b>Lessons, exams and credits total</b>	<b>57</b>	<b>13/6/4</b>
<b>Selective courses</b>	<b>3150/FALT1</b>	Kroutil	Basics of Laboratory Techniques	2	0/2/0 Cr	
	<b>9760/FATV1</b>	Kratky	Physical Education I	1	0/2/0 Cr	
	<b>3110/FADF1</b>	Ambrus	Selected Chapters from History of Pharmacy	1		0/0/1 Cr
	<b>3110/FAPL1</b>	Maceskova	Introductory Pharmacy Internship	2		2weeks Cr
	<b>3130/FABF2</b>	Muselik	Biophysics – Laboratory Practise	2		0/2/0 Cr
	<b>3150/FASO1</b>	Bobal	Organic chemistry seminary	2		0/0/2 Cr
	<b>9760/FATV2</b>	Kratky	Physical Education II	1		0/2/0 Cr
				<b>Credits total</b>	<b>11</b>	

\* Lectures / Practical Classes / Seminars

Ex... Examination

Cr... Credit

**50 credits is the minimal requirement for enrolment to the 2<sup>nd</sup> year of study**

## Second Year of Study

		<b>Teacher</b>	<b>Course</b>	ECTS	<b>Winter</b>	<b>Summer</b>
<b>Compulsory courses</b>	3140/FAPC1	Parak	Physiology and Pathophysiology I	4	2/1/0 Cr	
	3150/FAAI1	Pazourek	Analytical Chemistry I	3	2/3/0 Cr	
	3160/FAMB1	Feit	Microbiology	5	2/2/0 Ex	
	3160/FABC1	Brazdova	Biochemistry	6	3/1/0 Ex	
	3120/FAME1	Brazdova	Molecular Biology	2	2/0/0 Ex	
	9750/FACJ1	Ritickova	Czech Language	2	0/0/2 Ex	
	3120/FAFY1	Smejkal	Phytochemistry	3		1/1/0 Cr
	3140/FAPC2	Parak	Physiology and Pathophysiology II	6		2/2/0 Ex
	3150/FAAI2	Pazourek	Analytical Chemistry II	7		2/3/0 Ex
	3150/FAFB1	Farsa	Medicinal Chemistry I	3		3/0/1 Cr
			<b>Lessons, exams and credits total</b>	<b>41</b>	<b>11/7/2</b>	<b>8/6/1</b>
<b>Compulsory - selective courses</b>	2340/FACP1	Vorlova	Food Chemistry and Principles of Dietology	2	2/0/0 Ex	
	3110/FARI1	Ambrus	Managed Pharmaceutical Practice	2		2 weeksCr
	3120/FALR1	Dvorska	Production of Medicinal Plants	3		2/1/0 Ex
	3120/FAPH1	Hassan	Phytopathology	3		2/0/1 Ex
	3150/FAIS1	Pazourek	Statistics	5		2/2/0 Ex
	3160/FAPB1	Brazdova	Pathobiochemistry	4		2/1/0 Ex
	3160/FAGE1	Hořín	Applied Genetics	3		2/0/0 Ex
			<b>Credits total</b>	<b>22</b>		
<b>Selective courses</b>	9760/FATE1	Kratky	Physical Education III	1	0/2/0 Cr	
	9750/FACJ2	Ritickova	Advanced Czech Language	2		0/0/2 Ex
	9760/FATE2	Kratky	Physical Education IV	1		0/2/0 Cr
			<b>Credits total</b>	<b>4</b>		

**100 credits is the minimal requirement for enrolment to the 3<sup>rd</sup> year of study**

### Third Year of Study

		<b>Teacher</b>	<b>Course</b>	ECTS	<b>Winter</b>	<b>Summer</b>
<b>Compulsory courses</b>	<b>3110/FALK1</b>	Smejkalova	Pharmacy Practice	4	2/0/2 Ex	
	<b>3120/FAFG1</b>	Smejkal	Pharmacognosy I	4	2/4/0 Cr	
	<b>3130/FALF1</b>	Vetchy	Theory of Medical Forms	4	2/1/0 Ex	
	<b>3150/FAFB2</b>	Farsa	Medicinal Chemistry II	11	3/5/0 Ex	
	<b>3110/FARP1</b>	Smejkalová	Pharmacy Internship I	2		2 weeksCr
	<b>3120/FAFG2</b>	Smejkal	Pharmacognosy II	10		2/5/0 Ex
	<b>3140/FATO1</b>	Parak	Toxicology	4		2/1/0 Ex
	<b>3140/FAFT1</b>	Kollar	Pharmacology I	7		3/0/3 Cr
			<b>Lessons, exams and credits total</b>	<b>46</b>	<b>9/10/2</b>	<b>7/6/3</b>
<b>Compulsory - selective courses</b>	<b>3110/FAEZ1</b>	Mazankova	Health Care Economics	2	1/0/1 Ex	
	<b>3120/FAAO1</b>	Kubinova	Antioxidants and Free Radicals	2	2/0/0 Ex	
	<b>3120/FAAO2</b>	Kubinova	Antioxidants and Free Radicals–Practical Classes	1	0/1/0 Ex	
	<b>3120/FAEK1</b>	Babula	General Ecology and Ecology of Human Health	2	2/0/0 Ex	
	<b>3120/FAEP1</b>	Babula	Explants Cultures	3	1/1/0 Ex	
	<b>3140/FAKB1</b>	Parak	Clinical Biochemistry	3	1/1/0 Ex	
	<b>3160/FAIL1</b>	Toman	Immunology	2	2/0/0 Ex	
	<b>3160/FAMG1</b>	Hosek	Methods of Molecular Biology	2	1/0/0 Ex	
	<b>3110/FARL1</b>	Dohnal	Registration of Pharmaceuticals	2		1/0/0 Cr
	<b>3120/FAFF1</b>	Dankova	Phytopharmaceuticals	2		1/0/0 Ex
	<b>3120/FAIZ1</b>	Kaucka	Work with Information Sources	2		0/0/1 Cr
	<b>3130/FAPF1</b>	Vetchy	Industrial Pharmacy	3		2/0/1 Ex
	<b>3150/FACF1</b>	Farsa	Chemistry of Pharmaceutical Excipients	2		1/1/0 Ex
	<b>3150/FAZV1</b>	Jampilek	Molecular Principles of Drug Desing	4		2/1/0 Ex
	<b>3150/FAMM1</b>	Vaclavik	Principles of Computational Chemistry and Molecular Modeling	3		1/0/1 Ex
	<b>3160/FABL1</b>	Brazdova	Biotechnology of Drugs	3		3/0/0 Ex
	<b>3160/FABL2</b>	Hosek	Biotechnology of Drugs, Practical Classes	3		0/2/0 Cr
	<b>3160/FASB1</b>	Jelinek	Structural Biology and Proteomic	3		1/0/0 Ex
			<b>Credits total</b>	<b>44</b>		

**150 credits is the minimal requirement for enrolment to the 4<sup>th</sup> year of study**

### Fourth Year of Study

		Teacher	Course	ECTS	Winter	Summer
<b>Compulsory courses</b>	3110/FAFP1	Petrikova	Pharmaceutical Care I	1	1/0/1 Cr	
	3110/FAPE1	Petrikova	Pharmacy Law and Ethics	4	2/0/1 Ex	
	3130/FAFO1	Kubova	Medical Forms and Biopharmacy I	5	3/6/0 Cr	
	3140/FAFT2	Kollar	Pharmacology II	7	3/0/3 Ex	
	FACD1		Diploma Thesis I	4	0/4/0 Cr	
	3110/FAFP2	Petrikova	Pharmaceutical Care II	4		1/0/2 Ex
	3110/FASF1	Kolar	Social Pharmacy	4		2/0/1 Ex
	3130/FAFO2	Kubova	Medical Forms and Biopharmacy II*	11		3/6/0 Ex
	3140/FAKF1	Kotolova	Pharmacotherapy and Clinical Pharmacology	5		3/0/0 Ex
	3150/FAAL1	Opatrilova	Analysis of Drugs	8		2/3/0 Ex
	FACD2		Diploma Thesis II	4		0/4/0 Cr
			<b>Lessons, exams and credits total</b>	<b>57</b>	<b>9/10/5</b>	<b>11/13/3</b>
<b>Compulsory - selective courses</b>	3120/FATL1	Smejkal	Toxicology of Natural Compounds	4	2/1/0 Ex	
	3140/FAVP1	Kotolova	Pharmacological and Social Aspects of OTC Drugs	3	1/0/1 Ex	
	3160/FASE1	Brazdova	Structure and Evolution of Genomes	2	1/0/0 Ex	
	3110/FAFE1	Dohnal	Pharmacoeconomics	2		1/0/0 Ex
	3110/FAKC1	Lzicar	Consulting in a Pharmacy	1		0/0/1 Ex
	3110/FAOF1	Synek	Pharmacy in Oncology	1		0/0/1 Cr
	3110/FAPI1	Mazankova	Social Interaction of Pharmacist-Physician-Patient	2		1/0/1 Ex
	3120/FAHP1	Sychrova	Homeopathic Drugs	2		2/0/0 Ex
	3130/FARF1	Budinsky	Radiopharmaceuticals	3		1/0/1 Ex
	3130/FAKP1	Kubova	Cosmetic Products	3		2/0/0 Ex
	3130/FAVG1	Kubova	Advanced Drug Delivery *	4		1/2/0 Ex
	3130/FAMH1	Vetchy	Methods of Evaluation and Forming Formulation Files of the Drugs	2		1/0/1 Ex
	3130/FANL1	Vyslouzil	Hospital Pharmaceutics and their Technology	3		1/1/0 Ex
	3140/FACT1	Frydrych	Cardiovascular Pharmacotherapy	3		2/0/1 Ex
	3140/FAGF1	Chalupova	Geriatric Pharmacotherapy	3		2/0/0 Ex
	3140/FAIF1	Frydrych	Immunopharmacology	4		2/0/1 Ex
	3150/FAFA1	Dohnal	Pharmaceutical Analysis in Industry	2		1/0/0 Ex
3150/FABU1	Farsa	Biological Drugs	2		1/0/0 Ex	
		<b>Credits total</b>	<b>46</b>			

\* Prerequisite for registration of FAFO2 and FAVG1: passed FAFO1

\* Prerequisite for registration of FASP1: passed FAFM1

**200 credits is the minimal requirement for enrolment to the 5<sup>th</sup> year of study**

### Fifth Year of Study

		Teacher	Course	ECTS	Winter	Summer
<b>Compulsory courses</b>	<b>FACD3</b>		Diploma Thesis III	18	6 weeksCr	
	<b>3110/FASM1</b>	Saloun	Internship - 26 Weeks	22	26 weeks Cr	
			<b>Lessons, exams and credits total</b>	<b>40</b>		
<b>Selective courses</b>	<b>3140/FAKF2</b>	Kotolova	Clinical Pharmacy	5	2/0/0 Ex	
	<b>3150/FAKJ1</b>	Opatrikova	Selected Methods of Drug Quality Control	2	1/0/0 Ex	
			<b>Credits total</b>	<b>7</b>		

**300 credits is the minimal requirement for the FINAL STATE EXAMINATION**

#### Final State Examination:

Social Pharmacy – Pharmacy Practice  
 Pharmacognosy  
 Pharmaceutical Technology  
 Pharmacology and Toxicology  
 Pharmaceutical Chemistry

And

Diploma Thesis Defence