

**Cycle view of the study programme**

B1 Or Th Pr Au Cr

**Focus compulsory courses (B2 : 10Cr)**

Code	Description	B1	Or	Th	Pr	Au	Cr
PHAR0005-1	<i>Introduction to specialized focus in conception and development of medicine - bioanalysis</i>	B2	Q1				10
	- <i>Visites industrielles</i> - Brigitte EVRARD, Marianne FILLET, Philippe HUBERT - [6h Vis. Ind. Pl. ]		-	-	[+]		
	- <i>Introduction à la biologie clinique</i> - Corinne CHARLIER, MariePierre HAYETTE, Caroline LE GOFF - [6h SEM]		-	-	[+]		
	- <i>Médicaments d'origine biosynthétique</i> - Pierre FRANCOTTE - [6h SEM]		-	-	[+]		
	- <i>Stratégies de découverte des médicaments</i> - Pierre FRANCOTTE - [3h SEM]		-	-	[+]		
	- <i>Chimie structurale des médicaments</i> - Pascal DE TULLIO, Michel FREDERICH - [3h SEM]		-	-	[+]		
	- <i>Management pharmaceutique</i> - [3h SEM]		-	-	[+]		
	- <i>Assurance de qualité</i> - Philippe HUBERT, Roland MARINI DJANG'EING'A - [3h SEM]		-	-	[+]		
	- <i>Technologie pharmaceutique industrielle</i> - Brigitte EVRARD - [3h SEM]		-	-	[+]		
	- <i>Analyses biopharmaceutiques</i> - Marianne FILLET - [6h SEM]		-	-	[+]		
	- <i>Affaires règlementaires</i> - Philippe HUBERT - [3h SEM]		-	-	[+]		
	- <i>Etudes cliniques</i> - Régis RADERMECKER - [3h SEM]		-	-	[+]		
	- <i>Méthodologie de rédaction</i> - Geneviève PHILIPPE - [3h SEM]		-	-	[+]		

**Focus optional courses (B2 : 20Cr)**

Students must choose a placement and carry out associated personal research work in the chosen scientific field. This personal research work includes writing a report (in French) which has to be defended publicly. (B2 : 20Cr)

**Pharmacology (B2 : 20Cr)**

MSTG3350-2	<i>Training course : Pharmacology</i> - Vincent SEUTIN - [300h Internship]	B2	Q1	-	-	[+]	10
	<b>Prerequisite :</b> PHAC0341-2 - Pharmacologie spéciale (Partim I) PHAC0342-2 - Pharmacologie spéciale (Partim II)						
	<b>Corequisite :</b> PHAC0431-1 - Travail de recherche personnel en pharmacologie						
PHAC0431-1	<i>Personal research work of Pharmacology</i> - Vincent SEUTIN - [25h SOI, 50h Pers. Res.]	B2	Q1	-	-	[+]	10
	<b>Corequisite :</b> MSTG3350-2 - Stage : Pharmacologie						

**Clinical Toxicology (B2 : 20Cr)**

MSTG1351-2	<i>Training course : Clinical toxicology</i> - Corinne CHARLIER - [300h Internship]	B2	Q1	-	-	[+]	10
	<b>Prerequisite :</b> TOXI0341-2 - Chimie toxicologique, Partim I TOXI0342-2 - Chimie toxicologique y compris pharmacovigilance (Partim II)						
	<b>Corequisite :</b> TOXI0704-1 - Travail de recherche personnel en toxicologie clinique						
TOXI0704-1	<i>Personal research work in clinical toxicology</i> - Corinne CHARLIER - [25h SOI, 50h Pers. Res.]	B2	Q1	-	-	[+]	10
	<b>Corequisite :</b> MSTG1351-2 - Stage : Toxicologie clinique						

**Pharmaceutical chemistry (B2 : 20Cr)**

MSTG0453-2	<i>Training : medicinal chemistry</i> - Pierre FRANCOTTE - [300h Internship]	B2	Q1	-	-	[+]	10
	<b>Corequisite :</b>						

CHIM0684-1 - Travail de recherche personnel en chimie pharmaceutique  
 CHIM0684-1 *Pharmaceutical Chemistry Personal Research Work* - Pierre FRANCOTTE - [25h SOI, 50h Pers. Res.] B2 Q1 - - [+] 10  
**Corequisite :**  
 MSTG0453-2 - Stage : Chimie pharmaceutique

**Clinical chemistry (B2 : 20Cr)**

MSTG0355-1 *Training course : Medical chemistry* - Etienne CAVALIER - [300h Internship] B2 Q1 - - [+] 10  
**Prerequisite :**  
 BIOC0340-1 - Chimie clinique (Partim I)  
 BIOC0341-1 - Chimie clinique (Partim II)  
**Corequisite :**  
 CHIM0685-1 - Travail de recherche personnel en chimie clinique

CHIM0685-1 *Clinical Chemistry Personal Research Work* - Etienne CAVALIER - [25h SOI, 50h Pers. Res.] B2 Q1 - - [+] 10  
**Corequisite :**  
 MSTG0355-1 - Stage : Chimie clinique

**Pharmaceutical Technology (B2 : 20Cr)**

MSTG2350-2 *Training course : Pharmaceutical technology* - Brigitte EVRARD - [300h Internship] B2 Q1 - - [+] 10  
**Prerequisite :**  
 PHAR0343-3 - Technologie pharmaceutique et biopharmacie (partim I)  
 PHAR0003-1 - Technologie pharmaceutique et biopharmacie (partim II)  
**Corequisite :**  
 PHAR1354-1 - Travail de recherche personnel en technologie pharmaceutique

PHAR1354-1 *Personal research work in pharmaceutical technologies* - Brigitte EVRARD - [25h SOI, 50h Pers. Res.] B2 Q1 - - [+] 10  
**Corequisite :**  
 MSTG2350-2 - Stage : Technologie pharmaceutique

**Microbiology (B2 : 20Cr)**

MSTG1352-2 *Internship : Microbiology* - MariePierre HAYETTE - [300h Internship] B2 Q1 - - [+] 10  
**Prerequisite :**  
 MBIO0002-1 - Microbiologie pharmaceutique  
**Corequisite :**  
 MICR0718-1 - Travail de recherche personnel en microbiologie

MICR0718-1 *Microbiology personal research work* - MariePierre HAYETTE - [25h SOI, 50h Pers. Res.] B2 Q1 - - [+] 10  
**Corequisite :**  
 MSTG1352-2 - Stage : Microbiologie

**Analysis of Medicines (B2 : 20Cr)**

MSTG2352-2 *Training course : Analysis of drugs* - Marianne FILLET, AnneCatherine SERVAIS - [300h Internship] B2 Q1 - - [+] 10  
**Prerequisite :**  
 PHAR0344-3 - Analyse des médicaments  
**Corequisite :**  
 PHAR1355-1 - Travail de recherche personnel en analyse des médicaments

PHAR1355-1 *Personal research work in medicines analysis* - Marianne FILLET, AnneCatherine SERVAIS - [25h SOI, 50h Pers. Res.] B2 Q1 - - [+] 10  
**Corequisite :**  
 MSTG2352-2 - Stage : Analyse des médicaments

**Pharmacognosy (B2 : 20Cr)**

MSTG0358-2 *Period of instruction in the laboratory of pharmacognosy* - B2 Q1 - - [+] 10

REDERICH - [300h Internship]

**Corequisite :**

PHAR0718-1 - Travail de recherche personnel en pharmacognosie

PHAR0718-1 *Personal research work in Pharmacognosy* - Michel FREDERICH - B2 Q1 - - [+] 10  
[25h SOI, 50h Pers. Res.]

**Corequisite :**

MSTG0358-2 - Stage : Pharmacognosie

**Pharmaceutical analytical chemistry (B2 : 20Cr)**

MSTG1353-2 *Placement : Pharmaceutical analytical chemistry* - Philippe HUBERT, Eric ZIEMONS - [300h Internship] B2 Q1 - - [+] 10

**Corequisite :**

CHIM0358-1 - Travail de recherche personnel en chimie analytique pharmaceutique

CHIM0358-1 *Personal research work in pharmaceutical analytical chemistry* - Philippe HUBERT, Eric ZIEMONS - [25h SOI, 50h Pers. Res.] B2 Q1 - - [+] 10

**Corequisite :**

MSTG1353-2 - Stage : Chimie analytique pharmaceutique

**Industry pharmacy (B2 : 20Cr)**

MSTG2048-2 *Placement : industrial practices* - Brigitte EVRARD, Marianne FILLET, Pierre FRANCOU, Michel FREDERICH, Philippe HUBERT, Vincent SEUTIN - [300h Internship] B2 Q1 - - [+] 10

**Corequisite :**

PHAR2024-1 - Travail de recherche personnel en pratiques pharmaceutiques industrielles

PHAR2024-1 *Personal research work in industrial pharmaceutical practice* - Brigitte EVRARD, Marianne FILLET, Pierre FRANCOU, Michel FREDERICH, Philippe HUBERT, Vincent SEUTIN - [25h SOI, 50h Pers. Res.] B2 Q1 - - [+] 10

**Corequisite :**

MSTG2048-2 - Stage : Pratiques industrielles

**Project internship**

(B2 : 20Cr)

MSTG9083-1 *Project internship (Service Learning)* - Frédéric LECOMTE, Geneviève PHILIPPE - [300h Internship] B2 Q1 - - [+] 10

**Corequisite :**

PHAR2223-1 - Travail de recherche personnel lié au stage à projet

PHAR2223-1 *Personal research work related to the project internship* - Frédéric LECOMTE, Geneviève PHILIPPE - [25h SOI, 50h Pers. Res.] B2 Q1 - - [+] 10

**Corequisite :**

MSTG9083-1 - Stage à projet (Service Learning)

**Research internship**

(B2 : 20Cr)

MSTG9084-1 *Research internship* - Frédéric LECOMTE, Géraldine PIEL - [300h Internship] B2 Q1 - - [+] 10

**Corequisite :**

PHAR2224-1 - Travail de recherche personnel lié au stage de recherche

PHAR2224-1 *Personal research work linked to the research internship* - Frédéric LECOMTE, Géraldine PIEL - [25h SOI, 50h Pers. Res., 75h ATR] B2 Q1 - - [+] 10

**Corequisite :**

MSTG9084-1 - Stage de recherche

**Core curriculum courses (B1 : 60Cr, B2 : 30Cr)**

PHAR0344-3 *Medicines analysis* - Marianne FILLET, AnneCatherine SERVAIS B1 Q1 45 28 - 7

PHAR0343-3 *Pharmaceutical technologies and biopharmacy (part I)* - B1 Q1 20 60 - 4

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PHAC0341-2	<i>Special pharmacology (Part I)</i> - Vincent SEUTIN	B1	Q1	25	-	-	3
TOXI0341-2	<i>Toxicological chemistry, Part I</i> - <i>Toxicological chemistry</i> - Corinne CHARLIER - <i>Toxicological chemistry, supplement for pharmacy</i> - Corinne CHARLIER - [12h SEM]	B1	Q1	25	-	-	4
						[+]	
BIOC0340-1	<i>Clinical Chemistry (Part I)</i> - Etienne CAVALIER - [12h SEM]	B1	Q1	22	-	[+]	4
MBIO0002-1	<i>Pharmaceutical Microbiology</i> - MariePierre HAYETTE	B1	Q1	16	-	-	2
PHAR2018-1	<i>Officinal pharmaceutical good practices</i> - Anna LECHANTEUR - [6h SEM]	B1	Q1	10	-	[+]	2
ECON0340-1	<i>Pharmacoeconomy</i> - Robin CRUNENBERG	B1	Q1	10	-	-	1
PHAR0003-1	<i>Pharmaceutical technologies and biopharmacy (part II)</i> - Brigitte EVRARD, Anna LECHANTEUR - [5h SEM] <b>Corequisite :</b> PHAR0343-3 - Technologie pharmaceutique et biopharmacie (partim I)	B1	Q2	25	-	[+]	4
PHAR0347-3	<i>Practical work - Pharmaceutical technologies and Biopharmacy</i> - Brigitte EVRARD <b>Corequisite :</b> PHAR0003-1 - Technologie pharmaceutique et biopharmacie (partim II)	B1	Q2	-	32	-	2
PHAC0342-2	<i>Special pharmacology (Part II)</i> - Vincent SEUTIN <b>Corequisite :</b> PHAC0341-2 - Pharmacologie spéciale (Partim I)	B1	Q2	20	-	-	2
TOXI0342-2	<i>Clinical Toxicology and adverse drug events monitoring (Part II)</i> - Corinne CHARLIER - [12h SEM] <b>Corequisite :</b> TOXI0341-2 - Chimie toxicologique, Partim I	B1	Q2	25	-	[+]	4
BIOC0341-1	<i>Clinical chemistry (2nd part)</i> - Etienne CAVALIER - [12h SEM] <b>Corequisite :</b> BIOC0340-1 - Chimie clinique (Partim I)	B1	Q2	23	-	[+]	4
PHAR0004-1	<i>Pharamcotherapy and pharmaceutical cares</i> - Geneviève PHILIPPE - [10h SEM]	B1	Q2	30	-	[+]	5
SANT0005-1	<i>Therapeutic approach</i> - Didier CATALDO, Etienne CAVALIER, Raphaël DENOOZ, Michel FREDERICH, Geneviève PHILIPPE - [30h SI]	B1	Q2	-	-	[+]	3
LEGI0340-2	<i>Legislation and pharmaceutical ethics</i> - Frédéric LECOMTE	B1	Q2	30	-	-	4
PHAR2219-1	<i>Integrated work 2</i> - Corinne CHARLIER, Brigitte EVRARD, Marianne FILLET, Pierre FRANCOFFE, Michel FREDERICH, Philippe HUBERT, Anna LECHANTEUR, Allison LEDOUX, Geneviève PHILIPPE, Géraldine PIEL, AnneCatherine SERVAIS, Vincent SEUTIN, Eric ZIEMONS - [30h LBOPS] <b>Corequisite :</b> PHAC0341-2 - Pharmacologie spéciale (Partim I) PHAC0342-2 - Pharmacologie spéciale (Partim II) PHAR0343-3 - Technologie pharmaceutique et biopharmacie (partim I) PHAR0344-3 - Analyse des médicaments PHAR0003-1 - Technologie pharmaceutique et biopharmacie (partim II)	B1	Q2	-	-	[+]	3
PHAR2020-1	<i>Integrated practical activities</i> - <i>Integrated practical work</i> - Brigitte EVRARD, Marianne FILLET, Pierre FRANCOFFE, Michel FREDERICH, Philippe HUBERT, Anna LECHANTEUR, Géraldine PIEL, AnneCatherine SERVAIS, Eric ZIEMONS - <i>Industrial visits</i> - Pierre FRANCOFFE, Anna LECHANTEUR, Allison LEDOUX, AnneCatherine SERVAIS, Eric ZIEMONS - [25h Vis.] <b>Corequisite :</b>	B1	Q2	-	40	-	2
						[+]	

PHAR0343-3 - Technologie pharmaceutique et biopharmacie (partim I)

PHAR0344-3 - Analyse des médicaments

PHAR0003-1 - Technologie pharmaceutique et biopharmacie (partim II)

APPR0160-2 *Professional development Seminar* - Laetitia BURET, B2 Q2 - - [+] 5  
 Etienne CAVALIER, Corinne CHARLIER, Alain CHASPIERRE,  
 Raphaël DENOZ, Brigitte EVRARD, Marianne FILLET,  
 Pierre FRANCOU, Michel FREDERICH, Philippe HUBERT,  
 Nathalie JACOBS, Anna LECHANTEUR, Frédéric LECOMTE,  
 Anne-Laure LENOIR, Geneviève PHILIPPE, Géraldine PIEL,  
 Anne-Catherine SERVAIS, Eric ZIEMONS - [30h LBOPS]  
**Corequisite :**  
 MTFE0351-3 - Stage officinal et travail de fin d'études

**Compulsory Training**

PHAR0721-1 *Incorporation of pharmaceutical knowledge* - Corinne CHARLIER, B2 Q2 - 50 - 5  
 Raphaël DENOZ, Brigitte EVRARD, Marianne FILLET,  
 Pierre FRANCOU, Michel FREDERICH, Julien HANSON, Patrick HERNÉ,  
 Frédéric LECOMTE, Geneviève PHILIPPE, Géraldine PIEL,  
 Bernard PIROTTE, Anne-Catherine SERVAIS, Vincent SEUTIN  
**Corequisite :**  
 MTFE0351-3 - Stage officinal et travail de fin d'études

MTFE0351-3 *Officinal Internship and Thesis* B2 Q2 20  
 - *Record of learning and participation to clinical research project* - - - [+]  
 Corinne CHARLIER, Brigitte EVRARD, Marianne FILLET,  
 Pierre FRANCOU, Michel FREDERICH, Philippe HUBERT,  
 Frédéric LECOMTE, Geneviève PHILIPPE, Marie PIETTE,  
 Isabelle ROLAND - [100h Pers. Res.]  
 - *Officinal internship and Thesis* - Brigitte EVRARD - [6mois Internship] - - [+]

**Prerequisite :**

TOXI0342-2 - Chimie toxicologique y compris pharmacovigilance (Partim II)

PHAR2018-1 - Bonnes pratiques pharmaceutiques officinales

PHAR0347-3 - Travaux pratiques - Technologie pharmaceutique et biopharmacie

PHAR0343-3 - Technologie pharmaceutique et biopharmacie (partim I)

PHAR0003-1 - Technologie pharmaceutique et biopharmacie (partim II)

PHAC0342-2 - Pharmacologie spéciale (Partim II)

PHAC0341-2 - Pharmacologie spéciale (Partim I)

LEGI0340-2 - Législation et déontologie pharmaceutiques

BIOC0341-1 - Chimie clinique (Partim II)

**Corequisite :**

PHAR0721-1 - Intégration des connaissances pharmaceutiques

*Notice :* students must do a placement in a pharmacy of a legal duration of six months (26 weeks), and compile a learning record (dissertation) at the same time. This placement includes a compulsory introductory two-week internship, during the summer, after the bachelor's degree. For students who have acquired a minimum of 45 ECTS from block 1 of the master's degree, they can do their placement in a pharmacy during the summer holidays before starting block 2 of the master's degree (maximum 8 weeks). The remaining number of weeks (minimum 16 weeks) can be done within the framework of block 2 of the master's (2nd term).