

# 2020 Pharmaceutical Engineering Major's Program for International Students (Teaching in English)

(One) General Knowledge Courses 36Credits

## 1. General Knowledge Compulsory Courses 28Credits

Course Code	Course Name	Credit	Total Class Hours	Classhours Per Week	Term	Evaluation Method	Minor Course
F208001	Practical Chinese I	5.0	80	(5.0)	1-1st	Examination	
F226008	Programming Design A	4.0	64	(3.0)-(1.0)	1-1st	Examination	
F109001	A Glimpse of Chinese Culture I	2.0	32	(2.0)	1-1st	Examination	
F219012	Enrollment Education	1.0	16	(2.0)	1-1st	Evaluation	
F208002	Practical Chinese II	5.0	80	(5.0)	1-2nd	Examination	
F109002	A Glimpse of Chinese Culture II	2.0	32	(2.0)	1-2nd	Examination	
F218248	Green Pharmaceutical Introduction	1.0	16	(1.0)	1-2nd	Evaluation	
F208003	Practical Chinese III	4.0	64	(4.0)	2-1st	Examination	
F208004	Practical Chinese IV	4.0	64	(4.0)	2-2nd	Examination	

## 2. General Knowledge Selective Courses 8Credits

(Two) Basic Courses 44Credits

### 1. Basic Compulsory Courses 39Credits

Course Code	Course Name	Credit	Total Class Hours	Classhours Per Week	Term	Evaluation Method	Minor Course
F130001	Human Anatomy	2.0	32	(2.0)	1-1st	Examination	
F401017	Basic Chemistry Experiment I A	2.0	64	(4.0)	1-1st	Evaluation	
F210003	CalculusA	4.0	64	(4.0)	1-1st	Examination	
F101001	Inorganic Chemistry	3.0	48	(3.0)	1-1st	Examination	
F410001	College Physics Experiment (International students)	1.0	32	(2.0)	1-2nd	Evaluation	
F210004	CalculusA	4.0	64	(4.0)	1-2nd	Examination	
F210009	Linear Algebra	2.0	32	(2.0)	1-2nd	Evaluation	
F210007	College Physics (International students) I	3.0	48	(3.0)	1-2nd	Examination	

Course Code	Course Name	Credit	Total Class Hours	Classhours Per Week	Term	Evaluation Method	Minor Course
F101006	Analytical Chemistry	2.0	32	(2.0)	1-2nd	Examination	
F101007	Organic Chemistry B I	3.0	48	(3.0)	2-1st	Examination	
F101013	Physical Chemistry D I	2.5	40	(2.5)	2-1st	Examination	
F401009	Basic Chemistry Experiment (II) B I	1.0	32	(2.0)	2-1st	Evaluation	
F210006	College Physics (International students) II	2.0	32	(2.0)	2-1st	Examination	
F401013	Basic Chemistry Experiment (III) A I	1.0	32	(2.0)	2-1st	Evaluation	
F401010	Basic Chemistry Experiment (II) B II	1.0	32	(2.0)	2-2nd	Evaluation	
F401014	Basic Chemistry Experiment (III) A II	0.5	16	(1.0)	2-2nd	Evaluation	
F101014	Physical Chemistry D II	3.0	48	(3.0)	2-2nd	Examination	
F101008	Organic Chemistry B II	2.0	32	(2.0)	2-2nd	Examination	

## 2. Basic Selective Courses 5 Credits

Course Code	Course Name	Credit	Total Class Hours	Classhours Per Week	Term	Evaluation Method	Minor Course
F102001	Engineering Graphics	3.0	48	(3.0)	1-2nd	Examination	
F103001	The Basic on electrotechnics	2.5	40	(2.5)	2-1st	Evaluation	
F105013	Accounting(English)	3.0	48	(3.0)	3-2nd	Evaluation	

## (Three)Specialty Courses 42.5Credits

### 1. Specialty Compulsory Courses 36.5Credits

Course Code	Course Name	Credit	Total Class Hours	Classhours Per Week	Term	Evaluation Method	Minor Course
G106340	Experiment of Phamaceutical Biological Basis	2.0	64	(4.0)	2-1st	Evaluation	
G106100	Biological Basis of Phamaceutical Sciences	4.0	64	(4.0)	2-1st	Examination	
G210036	Medical Mathematical Statistics	2.0	32	(2.0)	2-2nd	Evaluation	
F118244	Reactions for Medicinal Synthesis	2.0	32	(2.0)	3-1st	Evaluation	

Course Code	Course Name	Credit	Total Class Hours	Classhours Per Week	Term	Evaluation Method	Minor Course
F118243	Pharmaceutical Analysis	2.0	32	(2.0)	3-1st	Examination	
F118242	Medicinal Chemistry II	3.0	48	(3.0)	3-1st	Examination	
F118241	Literature Search and Patent	2.0	32	(2.0)	3-1st	Evaluation	
F101021	Principles of Chemical Engineering C	4.0	64	(4.0)	3-1st	Examination	
F401006	Principles of Chemical Engineering B II	0.5	16	(1.0)	3-1st	Evaluation	
F118245	Nature Pharmaceutical Chemistry	2.0	32	(2.0)	3-1st	Evaluation	
F1300131	Industrial Pharmaceutics	2.0	32	(2.0)	3-2nd	Examination	
F1300141	Pharmacology	2.0	32	(2.0)	3-2nd	Examination	
F1300151	Green Pharmaceutical Technology	2.0	32	(2.0)	3-2nd	Examination	
F130011	Green Pharmaceutical Separation Engineering	2.0	32	(2.0)	3-2nd	Evaluation	
F130012	Introduction to Pharmaceutical safety and environmental protection	1.5	24	(1.5)	3-2nd	Evaluation	
F130003	English Writing and Presentation	2.0	32	(2.0)	3-2nd	Evaluation	
F118247	Pharmaceutical quality management project	2.0	32	(2.0)	4-1st	Evaluation	
G101106	Pharmaceutical Equipment	2.0	32	(2.0)	4-1st	Evaluation	

## 2. Specialty Selective Courses 6Credits

Course Code	Course Name	Credit	Total Class Hours	Classhours Per Week	Term	Evaluation Method	Minor Course
F130010	Biological Basis of Pharmaceutical Sciences II	2.0	32	(2.0)	2-2nd	Evaluation	
F130009	Ethics of Science and Pharmaceutics	2.0	32	(2.0)	2-2nd	Evaluation	
F1300161	Pharmaceutical Materials	2.0	32	(2.0)	3-2nd	Evaluation	
F118246	Drug Structure Analysis	2.0	32	(2.0)	3-2nd	Evaluation	
F1300171	Biosynthetic Pharmaceutics	2.0	32	(2.0)	4-1st	Evaluation	

(Four) Practical Teaching Section 22Credits

1. Practical Compulsory Courses 22 Credits

Course Code	Course Name	Credit	Weeks ( Class Hours )	Term	Note	Minor Course
G702003	Mechanical Engineering Training	1.0	2	2-2nd		
G530001	Cognitional Practice	0.5	2	2-short term		
G418089	Experiments of Organical Medicines B	0.5	1	2-short term		
G737001	Extracurricular Practice for Ideological and Political Theory Course	2.0	2	2-short term		
G418092	Experiments of Biochemical Medicines B	0.5	1	2-short term		
G213007	Physical Fitness Training	0.25	1	3-1st		
G418130	Experiments of Medicinal Chemistry B	0.5	1	3-2nd		
G418094	Experiments of Pharmaceutical Analysis	0.5	1	3-2nd		
G530002	Producing Practice	2.0	8	3-short term		
G701005	Curriculum Design for Principles of Chemical Engineering B	1.5	1.5	3-short term		
G730001	Curriculum design for Pharmaceutical Technology	2.0	2	4-1st		
G430001	Experiment of Green Pharmaceutical Science	1.0	2	4-1st		
G213008	Phydivsl Fitness Training IV	0.25	1	4-1st		
G630001	Thesis/Design for Pharmaceutical Engineering Major	16.0	32	4-2nd		

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