

Master of Science Program in Pharmaceutical Chemistry and Natural Products

Research Focus

- Pharmaceutical Chemistry
- Natural Product
- Pharmacognosy
- Pharmaceutical Science
- Pharmaceutical Analysis
- Biotechnology

Structure of the Program

1. Credit Requirements *

Requirements	Option 1.1	Option 1.2
Coursework	-	24
- Core Courses	-	12
- Electives	-	12
Required Non-credit Courses	5	5
Thesis	36	12
Total	36	36

* Minimum credits required

2. Core Courses

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Applied Biostatistics for Pharmaceutical Sciences	-	-	161703	3
Instrumental Techniques in Pharmaceutical Science Research 1	-	-	162701	3
Structure Elucidation of Organic Compounds	-	-	162703	3
Special Topic in Pharmaceutical Chemistry or Natural Products	-	-	162704	3
Total	-	-	4	12

3. Electives

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Instrumental Techniques in Pharmaceutical Science Research 2	-	-	162402	3
Drug Research and Development	-	-	162705	3
Drug Discovery and Design	-	-	162706	3
Principle of Medicinal Chemistry	-	-	162707	3
Reaction Mechanism of Organic Compounds	-	-	162708	3
Drug Action in Pharmaceutical Chemistry	-	-	162709	3
Advanced Organic Pharmaceutical Chemistry	-	-	162710	3
Pharmaceutical Analysis in Biological Samples	-	-	162711	3
Bioactive Compounds from Natural Origins	-	-	162712	3
Quality Control for Herbal Medicines	-	-	162713	3
Thai Medicinal Plants	-	-	162714	3
Medical Pluralistic	-	-	162715	3
Plant Tissue Culture Technology	-	-	162716	3
Plant Molecular Biology	-	-	162717	3
Pharmaceutical Biotechnology	-	-	162718	3
Total	-	-	≥4	≥12

4. Required Non-credit Courses

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Research Methodology in Health Science	160704	3	160704	3
Seminar 1	162794	1	162794	1
Seminar 2	162705	1	162795	1
Total	3	5	3	5

5. Thesis Credit Requirements

Requirements	Option 1.1		Option 1.2	
	Course No.	Cr.	Course No.	Cr.
Thesis 1, Option 1.1	162790	6	-	-
Thesis 2, Option 1.1	162791	6	-	-
Thesis 3, Option 1.1	162792	12	-	-
Thesis 4, Option 1.1	162793	12	-	-
Thesis 1, Option 1.2	-	-	162798	6
Thesis 2, Option 1.2	-	-	162799	6
Total	4	36	2	12