



USM UNIVERSITI
SAINS
MALAYSIA



UNIVERSITI SAINS MALAYSIA
**SCHOOL OF
PHARMACEUTICAL
SCIENCES**

BACHELOR OF PHARMACY (HONOURS)



**ACADEMIC SESSION
2024/2025**



Since 1972

SCHOOL OF PHARMACEUTICAL SCIENCES

#PHARMILY™

PHARMACISTS are health professionals who are trained in the practice of pharmacy and pharmaceutical sciences. They are well equipped with detailed knowledge of drugs to ensure safe and effective use of medications in patients. Pharmacists also utilise their scientific knowledge in the design and development of drugs. In Malaysia, pharmacists are employed not only in community pharmacy and hospital pharmacy but also in pharmaceutical industry, regulatory and drug management, academic activities and research.

THE SCHOOL OF PHARMACEUTICAL SCIENCES, established in 1972 and being the first pharmacy school in the country, is pioneering state-of-the-art integrated and multidisciplinary approach in teaching and learning

encompassing six key disciplines, namely pharmaceutical chemistry, pharmaceutical technology, pharmacology, clinical pharmacy, social and administrative pharmacy, and physiology to train and prepare our pharmacy graduates to keep up with the ever-changing pharmacy practice and stay relevant in the industry. Apart from lectures and lab works, the students have the opportunities to undergo experiential learning in clinical, industrial and community settings, making learning relatable to the students. Today, we have a strong research collaboration with local institutions of international repute as well as with foreign institutions. Besides, our lecturers and researchers have been actively engaged by both local and multinational companies and institutes in various consultation works.

▶ *Leading pharmacy education*

VISION OF THE SCHOOL OF PHARMACEUTICAL SCIENCES

The School of Pharmaceutical Sciences envisions to become a global centre of excellence for sustainable and innovative pharmaceutical education, research and practice for the wellness of society.

MISSION OF THE SCHOOL OF PHARMACEUTICAL SCIENCES

The School of Pharmaceutical Sciences is committed to producing professional, innovative and competitive graduates to meet the needs of the pharmacy profession and enhance consultancy, trans-disciplinary research and global collaboration for sustainable development and empowerment of society.



PROGRAM EDUCATIONAL OBJECTIVES (PEO)

The Bachelor of Pharmacy program offered by the School of Pharmaceutical Sciences, Universiti Sains Malaysia aims to produce pharmacists who are

- competent, skilful, resourceful, ethical and professional;
- self-reliant with leadership values and critical thinking skills;
- caring, compassionate and show respect and fairness to others; and
- adaptable to socioeconomics, health and environmental changes



PROGRAM LEARNING OUTCOMES (PLO)

At the end of the program, the students will be able to

- demonstrate knowledge and understanding in relevant areas of pharmaceutical sciences and pharmacy practice;
- analyse and formulate solutions to pharmaceutical-related problems;
- apply practical, digital and numeracy skills in clinical, industrial and community pharmacy settings;
- demonstrate effective interpersonal skills and teamwork through verbal and nonverbal communication in various settings;
- reflect on personal knowledge and skills via engagement in activities that enhance personal and professional development;
- demonstrate entrepreneurship skills pertaining to pharmaceutical-related areas;
- display integrity, ethics and professionalism in general conduct.



GRADUATION REQUIREMENTS

- Fulfil the minimum residential requirements during the course of studies (4 Years)
- Fulfil all credit requirements; i.e. requirements for each component (Core, Elective, and University Courses)
- Obtain a CGPA of 2.67 and above for the Core and Specialization Elective components, by achieving a grade of B- and above for each course.
- Obtain a CGPA of 2.00 and above for the program.
- Achieve a minimum grade of C or a grade point of 2.00 for each of the University course.

GRADUATING UNIT STRUCTURE

TYPES OF COURSES	UNITS
1. Core (Type: T)	102
2. Specialization Elective (Hospital, Industrial or Community Stream) (Type: E)	12
3. Elective/ Option (Type: E)	16
4. University (Type: U)	
[a] Bahasa Malaysia	2
[b] English Language	4
[c] Core Entrepreneurship (WUS101)	2
[d] Appreciation of Ethics and Civilisation (HFE224)	2
[e] Philosophy and Current Issues (HFF225)	2
[f] Co-curriculum	2
[g] Co-curriculum/Options/Skill Courses	1
TOTAL	145

COURSES REGISTRATION TRACKING

Semester I, Year 1

COURSE	UNITS	TYPE CODE	COMPLETED
FAR113 Organic Chemistry	3	T	
FAR123 Microbiology for Pharmacy	3	T	
FAR132 Basic Physiology and Pharmacology	3	T	
FAR153 Communication Skill in Pharmacy Practice	2	T	
FAR191 Research Methodology and Statistics in Pharmacy	4	T	
HFF225 Philosophy and Current Issues	2	U	
WAR 122 Integrity and Anti-Corruption	2	U	
(Option/Co-curriculum)			
TOTAL UNITS (not more than 21 units)			

Code Indicator:

T: Core E: Elective/Specialization Elective U: Language/Option/Co-curriculum

Semester II, Year 1

COURSE	UNITS	TYPE CODE	COMPLETED
FAR114 Pharmaceutical Chemistry	3	T	
FAR115 Principles of Medicinal Chemistry	2	T	
FAR116 Biochemistry	3	T	
FAR122 Dosage Form I	4	T	
FAR162 Principles of Immunology and Oncology	2	T	
FAR193 Social and Public Health Pharmacy	3	T	
WUS101 Core Entrepreneurship	2	U	
HFE224 Appreciation of Ethics and Civilisations	2	U	
TOTAL UNITS (not more than 21 units)	21		

Code Indicator:

T: Core E: Elective/Specialization Elective U: Language/Option/Co-curriculum

Semester I, Year 2

COURSE	UNITS	TYPE CODE	COMPLETED
FAR215 Pharmaceutical Analysis	3	T	
FAR221 Physical Pharmacy I	3	T	
FAR222 Dosage Form II	3	T	
FAR240 Peripheral System and Therapy	4	T	
FAR281 Introduction to Industrial Pharmacy and Pharmacy Practice	2	T	
FAR292 Pharmaceutical Management	2	T	
(Elective 1)	2	E	
(Elective 2/ Language*)			
(Language*)			
TOTAL UNITS (not more than 21 units)			

*Language: English (LSP/LHP)

Code Indicator:

T: Core E: Elective/Specialization Elective U: Language/Option/Co-curriculum

Semester II, Year 2

COURSE	UNITS	TYPE CODE	COMPLETED
FAR223 Physical Pharmacy II	3	T	
FAR224 Drug Delivery and Targetting	3	T	
FAR241 Antimicrobial Therapy	4	T	
FAR242 Endocrine & Reproductive Systems and Therapy	4	T	
FAR281 Introduction to Industrial Pharmacy and Pharmacy Practice	2	T	
(Elective 1)	2	E	
(Elective 2/Language*/Option)	2		
(Language*/Option/Co-curriculum)			
TOTAL UNITS (not more than 21 units)			

*Language: English (LSP/LHP) and/or LKM400

Code Indicator:

T: Core E: Elective/Specialization Elective U: Language/Option/Co-curriculum

Semester I, Year 3

COURSE	UNITS	CODE	COMPLETED
FAR324 Pharmaceutical Processing	4	T	
FAR325 Biopharmaceutics and Pharmacokinetics	2	T	
FAR341 Respiratory, Renal, Blood Systems and Therapy	4	T	
FAR342 Cardiovascular System and Therapy	3	T	
FAR352 Clinical Pharmacy Practice	4	T	
(Language*/Option)	2		
(Language*/Option/Co-curriculum)			
TOTAL UNITS (not more than 21 units)			

*Language: English (LSP/LHP) and/or LKM400

Code Indicator:

T: Core E: Elective/Specialization Elective U: Language/Option/Co-curriculum

Semester II, Year 3

COURSE	UNITS	CODE	COMPLETED
FAR314 Pharmacognosy and Phytochemistry	3	T	
FAR343 Gastrointestinal System and Therapy	2	T	
FAR344 Central Nervous System and Therapy	4	T	
FAR354 Pharmacoinformatics: Theory and Application	2	T	
FAR355 Clinical Pharmacokinetics & Pharmacotherapeutic Monitoring	2	T	
FAR382 Forensic Pharmacy	2	T	
(Elective 1/Language*/Option)	2		
(Elective 2/Language*/Option/Co-curriculum)	2		
(Language*/Option/Co-curriculum)			
TOTAL UNITS (not more than 21 units)			

*Language: English (LSP/LHP)

Code Indicator:

T: Core E: Elective/Specialization Elective U: Language/Option/Co-curriculum

Semester I, Year 4

COURSE	UNITS	CODE	COMPLETED
FAR420 Pharmaceutical Biotechnology	3	T	
FAR462 Community Pharmacy	2	T	
FAR491 Pharmacoepidemiology & Pharmacoconomics in Developing Countries	3	T	
(Elective / Language*/Option)	2		
(Language*/Option/Co-curriculum)	2		
(Language*/Option/Co-curriculum)	2		

*Language: English (LSP/LHP)

Code Indicator:

T: Core E: Elective/Specialization Elective U: Language/Option/Co-curriculum

Hospital Pharmacy Stream

Semester I, Year 4

COURSE	UNITS	CODE	COMPLETED
FAR460 Traditional and Complementary Medicine	2	E	
FAR467 Applied Therapeutic I	2	E	
FEL479 Precision Medicine	2	E	
FEL470 Research Exercise	6	E	
TOTAL UNITS (including courses on page 11)			

Semester II, Year 4

COURSE	UNITS	CODE	COMPLETED
FAR465 Pharmacy Aseptic Services	2	E	
FAR466 Pharmacotherapy in Special Population	2	E	
FAR468 Applied Therapeutic II	4	E	
FEL470 Research Exercise	6	E	
(Elective 3)		E	
TOTAL UNITS			

Industrial Pharmacy Stream

Semester I, Year 4

COURSE	UNITS	CODE	COMPLETED
FAR411 Advanced Pharmaceutical Analysis	2	E	
FAR426 Industrial Pharmacy	2	E	
FEL477 Personal Care	2	E	
FEL470 Research Exercise	6	E	
TOTAL UNITS (including courses on page 11)			

Semester II, Year 4

COURSE	UNITS	CODE	COMPLETED
FAR427 Industrial Training (Industrial Pharmacy)	8	E	
FEL470 Research Exercise	6	E	
TOTAL UNITS			

Community Pharmacy Stream

Semester I, Year 4

COURSE	UNITS	CODE	COMPLETED
FAR460 Traditional and Complementary Medicine	2	E	
FAR467 Applied Therapeutic I	2	E	
FEL470 Research Exercise	6	E	
TOTAL UNITS (including courses on page 11)			

Semester II, Year 4

COURSE	UNITS	CODE	COMPLETED
FAR492 Industrial Pharmacy (Community Pharmacy)	8	E	
FEL470 Research Exercise	6	E	
TOTAL UNITS			

LIST OF ELECTIVE COURSES

COURSE	YEAR	SEMESTER
FEL273/2 Veterinary Pharmacy	2	1
FEL274/2 Health Promotion Pharmacy	2	1
FEL275/2 Toxicology	2	2
FEL276/2 Introduction to Pharmaceutical Marketing	2	2
FEL373/2 Drug Modelling	3	2
FEL374/2 Drug and Society	3	2
FEL476/2 Current Topics in Physiology	4	1
FEL477/2 Personal Care	4	1
FEL479/2 Precision Medicine	4	1
FEL478/2 Bedside Physiology	4	2

IMPORTANT POINTS FOR STUDENTS

Use your USM email address (@student.usm.my) for all official communications with university staff.

Elearning@USM is the designated platform for teaching, learning, and continuous assessment.

Adhere to all safety procedures as outlined by the University Occupational Safety and Health Unit (UKKP).

Complete the Course Evaluation survey before the start of final exams each semester.

Students may sit for the KSCP semester examination for each course only ONCE before their final year of study.

PPSF STUDENT PLEDGE

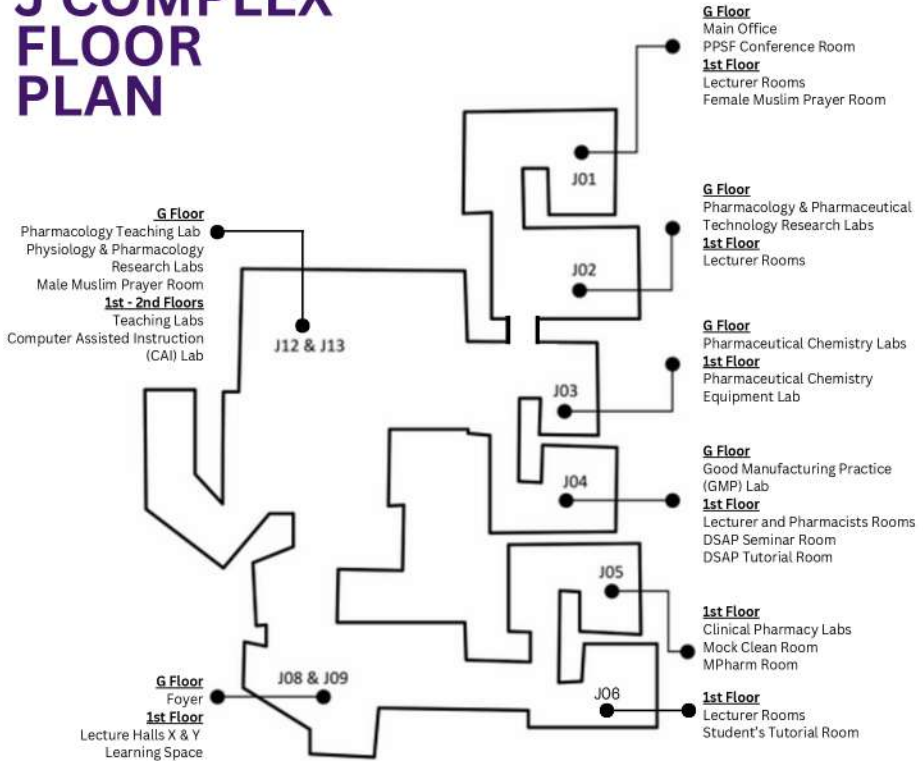
I solemnly vow to make every effort to achieve academic excellence and make the best use of the opportunities given to improve my academic and personal development.

I will always display good conduct, ethics, and professionalism as a student of the School of Pharmaceutical Sciences, Universiti Sains Malaysia, and uphold decency and respect in accordance with religious teachings and Malaysian cultural norms.

I will also comply with all laws, statutes, regulations, rules, and any instructions applicable to students of the School of Pharmaceutical Sciences, USM, made from time to time throughout my time as a student at this school.

I will uphold and protect the good name of the university and school, and respect all members of the university and society wherever I may be.

J COMPLEX FLOOR PLAN



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