



中國藥科大學

SYLLABUS OF INTRODUCTION OF PHARMACEUTICAL SCIENCE

5th edition, made for the academic year of 2024-2025 (January 2025)

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Written and revised by: Dr Dramou Pierre



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SUMMARY OF THE GENERAL INFORMATION OF THE COURSE

Course Title	Introduction of Pharmaceutical Science		Total credits: 2 Total period: 34 Midterm: No		Theory Yes Experiment No		
College	School of Science	Department	Analytical Chemistry	Targeted students	Foreign students at CPU Maximum students' number: No more than 30 by group		
Textbook name	No	Edition	No	Year Version	No	Publisher name / Self-edited	No

BRIEF DESCRIPTION OF THE COURSE

This course provides a foundational understanding for students entering the pharmaceutical profession. It covers the history and future trends in pharmacy, the principles of professionalism, patient and population health trends, medication use processes, patient safety, and the social aspects of health and illness. Students will also engage in career planning, learn to develop and maintain their curriculum vitae, and explore a variety of career options within the field of pharmacy.

In addition to theoretical knowledge, the course introduces problem-based learning and emphasizes skills such as self-directed learning, critical thinking, self-assessment, effective interpersonal communication, and the ability to retrieve, synthesize, and present information. The goal is to help students understand both what to expect from the pharmacy profession and what is expected of them.

Designed for first-year pharmacy students, this course provides the necessary groundwork to move forward in the pharmacy program. It will not directly lead to employment in a pharmacy setting, but will equip students with the tools for success in further studies and professional development.

The course includes 13 lectures, each lasting 2 periods, and two practical classes involving visits to a pharmaceutical industry, pharmaceutical museum, distributor, or hospital, where students can observe real-world applications of their studies. The course will conclude with a final presentation, either individually or in groups, where students will present a report on a topic they have researched, integrating key content covered throughout the course to



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demonstrate their understanding.

Text book: (to be updated).

Reference books:

- 1) Developing pharmacy practice-A focus on patient care. Handbook 2006 Edition.
Karin Wiedenmayer
- 2) Pharmacy Management- Essentials for all practice settings. Second Edition. **Shane P. Desselle / David P. Zgarrick**
- 3) The ethics of pharmaceutical industry influence in medicine. **Omar Sultan Haque et al.**

SCHEDULE FOR CLASS ACTIVITIES

Summary table of the period of lessons and other activities

Subject	Lecture	Practical classes	Seminar	Laboratory practices	Total
Introduction of Pharmaceutical Science (period of class in hour)	26	6	2		34

Schedule of the course: Provisional scheduled time (Friday 19:25-21:05 h) Beijing time.

LECTURE OUTLINE

1. Lesson 1: Introduction, historical development of the pharmaceutical science and the profession
2. Lesson 2: Pharmacy and pharmacist concept
3. Lesson 3: Evolution and current situation
4. Lesson 4: Organizational and scientific-technical characteristics of pharmaceutical units
5. Lesson 5: Validity and social value of the pharmaceutical practice
6. Lesson 6: Discipline profiles (Curriculum)
7. Lesson 7: Interaction with other professions
8. Lesson 8: Rational use of drugs



9. Lesson 9: Essential, generic and brand drugs.
10. Lesson 10: Ensuring quality of medicine
11. Lesson 11: Scientific-technical information rudiments
12. Lesson 12: Health system, its systemic nature, concepts related to the terms health-diseases, signs, symptoms and syndrome
13. Lesson 13: Pharmaceutical ethics and deontology
14. Practical Class (Visit to the Pharmacy)
15. Practical Class (Visit to the Industry)
16. Seminar (Topic provided during the semester)

ASSESSMENT METHOD OR SCORING STANDARD

(written test, paper, actual operation inspection, etc.)

The course employs both formative and summative assessments to track student progress and understanding.

Formative Assessments

These assessments are designed to provide ongoing feedback throughout the course. Students will participate in two practical classes, which include visits to a pharmaceutical industry, pharmaceutical distributor, or hospital to observe and engage with real-world applications of the course content. Additionally, knowledge checks will be conducted through various methods such as one-on-one discussions, surveys, and informal assessments to gauge understanding and encourage continuous learning.

Summative Assessment

The final summative assessment will be a seminar-style presentation, where students will present the results of their individual or group research on a topic related to the course. This presentation will serve as an integrative summary of the key concepts covered throughout the course, allowing students to demonstrate their comprehension and ability to synthesize the material effectively.

Course Scoring Table

Daily Score	Final Presentation	Total Score
70%	30%	100%

For more details, here is the general evaluation score of this course that consists of two parts



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- (1) Process assessment scores account for 70% of the total score, mainly including classroom attendance (10%), homework (10%), participation in online discussions (10%), practical activities 10%, completion of exercises 10%, video watching 10%, coefficient of leaning on the course website 10%.
- (2) Final presentation score accounts for 30% of the total score.

PROFILE OF THE TEACHER

Dr Dramou Pierre, holds a PhD in Pharmaceutical Analysis, awarded in 2013. Currently an Associate Professor at China Pharmaceutical University (CPU), he began his academic career as an Assistant Professor at the School of Materials Science and Engineering at Jimma University. In 2015, he was promoted to Director of Research and Development of Drug at a Drug Research Center in Hangzhou. He joined CPU in 2016 as an Assistant Professor. From 2000 to 2009, Prof. Dramou completed his Bachelor's and Master's in Pharmaceutical Science in Cuba, which provided him with extensive experience working with international students. As a faculty member at CPU's School of Science, he taught Analytical Chemistry, Inorganic Chemistry in English, Introduction of Pharmaceutical science, etc, contributing to the recognition with Jiangsu provincial prizes for teaching reforms and implementation. A highly active and inspiring educator, he was named one of the most welcomed teachers for foreign students in 2019 and again in 2021 by CPU's School of International Studies. His research, supported by grants from the NSFC, focuses on the development of analytical methods, particularly those involving new nanocomposites for analytical, biomedical, and drug delivery applications. Dr. Dramou is a member of the American Chemical Society and is proficient in English, French, Spanish, and Chinese. He is also an active editor, reviewer and has authored numerous publications, book chapters, and patents.

MISCELLANEOUS INFORMATION

Link for the online class: <https://mooc1.chaoxing.com/course/217469177.html>

QR code of the Course: (Limited to the course students' access)

Teacher office: Experiments building A, Room A503



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Email Address: pierred@cpu.edu.cn

Phone number: 13776662410

Reference: reference books already cited up and other sources (to be updated)