TCM study abroad courses are conducted at the Peking University School of Pharmaceutical Sciences, a sister school to the University of Connecticut School of Pharmacy. Lectures are given in English by faculty members of the School of Pharmaceutical Sciences at Peking University, a top pharmacy school in China. Students are housed in international student dormitories at the Peking University Health Science Center located in the Haidan district of Beijing.

Cultural excursions to famous sites including the breathtaking Great Wall of China, the Forbidden City, and the Summer Palace are included.

### REQUIREMENTS

Applicants must be enrolled in a science or related major with a 3.0 minimum GPA.

Students are responsible for developing a student blog while in China and acting as ambassadors for the program by participating in the Study Abroad Fair, Lunch & Learn presentation, and other presentations as needed.

### LEARNING OUTCOMES

- TCM's history, philosophy, chemistry, quality control and product formulation.
- The relationship between the philosophy of TCM and traditional ways of administering these medicines.
- That TCM contains active ingredients (chemicals) that have drug-like properties and will have a basic understanding of the different types of chemicals and minerals that are used in TCM.
- The importance of quality control and how to analyze TCM products and raw materials.
- The basic methods of TCM formulation (making the raw material into a medicine such as a pill or tablet).
- The differences between TCM and modern Western medicine.
- Some basic Mandarin and an understanding of how the Chinese characters are constructed.
- A greater understanding of Chinese culture.

### REGISTER/CONTACT/COST


Contact: Education Abroad, tel. 860.486.5022, abroad@uconn.edu, abroad.uconn.edu

Dr. Diane Burgess, tel. 860.486.3760, email d.burgess@uconn.edu

Dr. Fei Wang, tel. 860.972.4125, email fei.wang@uconn.edu

University of Connecticut School of Pharmacy, 69 N. Eagleville Rd., Unit 3092 Storrs, CT 06269

TCM cost is listed at tinyurl.com/UConnTCM
This program is designed to provide students with the opportunity to study Traditional Chinese Medicine (TCM) in the bustling city of Beijing alongside seasoned professionals in the field.

Over 18 million inhabitants dwell in Beijing and although western medicine is practiced in China, you will find that most Beijing citizens also rely heavily on TCM. Contact with western medicine has not displaced TCM. In fact, you will encounter western medicine and TCM being practiced side-by-side during your stay.

Currently utilized as a complementary medical system in China, TCM consists of a range of medicinal practices that developed over thousands of years including herbal medicine, acupuncture and massage therapy. This Education Abroad program will focus on herbal medicine, which is becoming an increasingly popular method of treatment in the west. Students enrolled in the program will experience field trips to herbal farms, TCM factories, hospitals, and community practice sites where they will work with doctors prescribing and dispensing herbal medicines.

The program is designed to provide the student with a basic understanding of traditional Chinese medicine. This will include the history of TCM, the philosophy behind TCM, and an overview of the resources including sources, chemistry, analysis, and formulation into medicines.

The program will include formal lectures, discussions, and field trips. Field trips include field collection of medicinal plants, as well as visits to TCM manufacturers and TCM departments of hospitals. Students will take 28 hours of basic Mandarin. In addition, several cultural activities are planned.

This experience is designed as a 6-credit course. PHAR 3095: Special Topics in Clinical Rotations: Traditional Chinese Medicine (2 credits for language, 4 for TCM course, 1 for field trips.) Students will arrive for an orientation in Beijing, attend cultural tours, and study Mandarin.

After the orientation period, formal instruction in TCM will be taught in English by the faculty at Peking University. Lectures and practice site visits (field trips) will comprise the final weeks. The last day will be a wrap up with the instructors and Chinese students.

Courses/Seminars
Development History of TCM - 9 hours
A summary of the development process of TCM since its early stage from Han dynasty to the modern age. The philosophy behind TCM will be included. Famous TCM books and representative figures will be introduced.

Basic Theory of TCM - 9 hours
The basic theory of TCM including the Yin-Yang theory, Zang-Fu theory, etc. will be introduced so that the students will learn the principles used by the ancient people to think about our body and treat diseases.

Introduction to Chinese Herbs and Minerals, including resources, morphology, chemistry, and quality control - 24 hours
There are over 11,000 species of Chinese herbs used by Chinese doctors and local herbal practitioners, but only about 500 commonly used herbs which are recorded in Chinese Pharmacopoeia. Approaches to the authentication, chemistry and quality control methods for these herbs and minerals will be introduced.

DATES & DEADLINES
Education Abroad’s 2019 TCM dates are May 14 - June 18. The deadline to apply is February 28, 2019.

After the course, the students will have a basic knowledge of these herbs and minerals. They will be broken down as the follows:
- TCM resources (herbs) - 4 hours
- TCM resources (minerals - 2 hours
- TCM chemistry (herbs and minerals) - 6 hours
- TCM quality control (herbs & minerals) - 6 hours
- TCM composite medicines & traditional formulations - 6 hours

TCM Field Trips
Students make a one-day visit to a TCM pharmaceutical manufacturer. On this trip, the students will visit workshops that prepare TCM herbs and spices. Students will observe the oldest way to process the herbs, as well as modern processing methods. They will also see how the major TCM dosage forms are manufactured including: pills, powders, tablets, capsules, etc. Students will learn about the entire TCM manufacturing process.

A second trip provides the opportunity for field collection of medicinal plants. The possible sites for this field trip include: Badaling (Great Wall tour sites, 100 km away from Beijing) and Huairou County. Commonly used TCM herbs will be collected and students will be taught to recognize some of the most important plants (roughly 50 species). The students will also be taught to prepare sample specimens for storage for future use.

A visit to the TCM pharmacy departments of Peking University Health Science Center affiliated hospitals is also planned. These include People Hospital, Third Hospital, and Peking Union Hospital.

Discussion Groups
Discussions with Chinese students and professors.