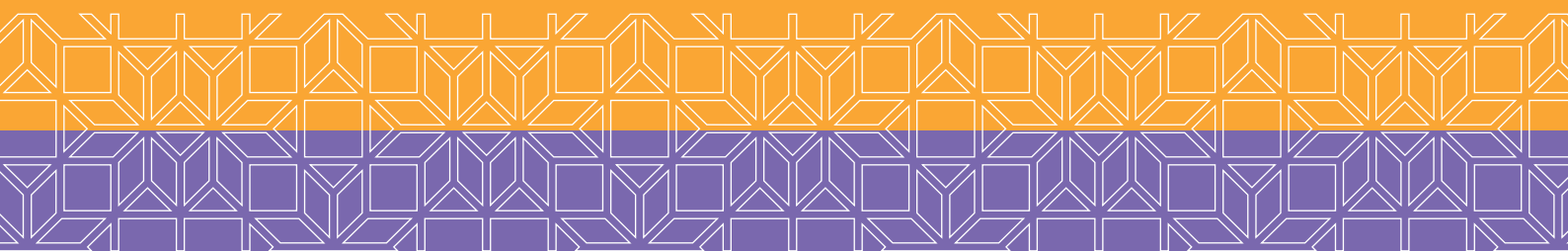




كلية الصيدلة
College of Pharmacy
QATAR UNIVERSITY جامعة قطر

THE FUTURE OF PHARMACY IS WAITING FOR YOU

Accredited by the Canadian Council for Accreditation of Pharmacy Programs (CCAPP)



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Qatar University

Founded in 1977, Qatar University is the country's major institution of higher education. It is committed to fostering an intellectual community characterized by teaching excellence, the free and respectful exchange of ideas, and a commitment to rigorous inquiry that serves the needs of the Qatari community.

The University offers undergraduate and post graduate degrees in some 60 professional disciplines, and has built a strong foundation in engineering, business and economics, education, social & applied sciences and pharmacy.

QU's powerful connection with industry, commerce and government stems from a long tradition of strategic partnerships to achieve progress. These benefit students by helping them understand the marketability of various degrees, and allowing them to take advantage of industry support in the form of scholarships, endowments, research grants, and other forms of collaboration.

The University's approach to research and education is innovative, collaborative, and progressive in attending the community's needs and incorporating intelligent use of emerging technologies.

College of Pharmacy

The College of Pharmacy (CPH) is the seventh and newest college at Qatar University following approval from the Board of Regents under the leadership of the H.H. Sheikh Tamim bin Hamad Al Thani.

The college was initiated to help meet the country's growing demand for qualified pharmacists, and its creation reflects the commitment of the university and the country towards health education and research, and improving health outcomes for its citizens.

Planning for this new college began in 2006 with the first student enrolment in September 2007. The degree program is intended to provide the knowledge and skills necessary to graduate competent pharmacists to meet the health care needs of society.

The college currently offers a 5-year Bachelor of Science in Pharmacy - BSc (Pharm), a Doctor of Pharmacy (PharmD) for graduates pursuing advanced clinical training, as well as a Masters of Science in Pharmacy - MSc (Pharm) for students interested in bench research.



Mission, Vision and Goals

The mission of the College of Pharmacy is to prepare students to provide optimal pharmaceutical care and advance health care outcomes, to promote research and scholarly activity, and to serve as a pharmacy resource for Qatar, the Middle East and the world.



The vision is to become the leading pharmacy school in the Middle East region.

The specific program goals

- To foster integration of knowledge and skills, and to develop the student's general and professional abilities in systematic ability-based BSc, PharmD and MSc curricula that incorporate the following areas: biomedical science, pharmaceutical sciences, behavioral, social and administrative pharmacy, pharmacy practice and clinical pharmacy;
- To integrate knowledge with practical experience to enhance career path and development;
- To contribute to the professional education of practitioners;
- To advance pharmaceutical and health outcomes by the conduct of internally and externally funded independent and collaborative research, and to disseminate the results of these efforts at well-recognized local, regional and international conferences and in high quality peer-reviewed journals;
- To provide an intellectual and academic atmosphere that is conducive to recruitment and development of qualified faculty.



A Career in Pharmacy

Never has there been a better time to consider a rewarding career in the health care discipline of pharmacy. The demand for clinical pharmacists is high in Qatar, with the rapid growth of the health care and pharmaceutical industries. The services are also increasing as pharmacists become more actively involved in drug therapy decision-making for patients of all ages.

Pharmacists are medication experts. They function as clinical practitioners in hospitals or community settings; as educators and researchers; and as consultants

in many other health care settings. Pharmacy practice focuses on the rational use of medication. Historically professional functions were limited to drug dispensing and counseling. The profession has now evolved to include a broader scope of functions and responsibilities in response to the increasing complexity of pharmacotherapy.

BSc Educational Outcomes and Accreditation

The College of Pharmacy is committed to meet the expectations for competent pharmacists described by the World Health Organization (1997). In particular, students are expected to assume the roles and responsibilities as care givers, decision makers, communicators, leaders, managers, life-long learners and teachers. The curriculum is designed to meet the education outcomes for BSc (Pharm) graduates in Canadian programs including:

- Meeting patients' drug-related needs
- Assuming legal, ethical and professional responsibilities
- Providing drug and drug use information and recommendations
- Educating about drugs, drug use and health promotion
- Managing drug distribution
- Understanding practice management principles
- Applying the principle of scientific inquiry to contribute to the profession and to society



Canadian Accreditation

On June 18, 2012, in parallel with the first pharmacy graduating class, the Canadian Council for Accreditation of Pharmacy Programs CCAPP (Canada) delivered official notification to Qatar University President Sheikha Abdulla Al-Misnad that Qatar University College of Pharmacy

has been awarded the status of Full Accreditation for its Bachelor of Science program in Pharmacy for the six year term 2012 - 2018. The College of Pharmacy at Qatar University was the first international program to be awarded full accreditation status by CCAPP (Canada). CCAPP is the sole accreditation agency in Canada.

In January 2014, less than three years after the commencement of the PharmD Program, the CCAPP team awarded Qatar University full-accreditation status to the Doctor of Pharmacy Program.

Bachelor of Science (Pharmacy)



The BSc (Pharm) degree program involves a 5-year ("1+4") curriculum following the foundation program. Students are expected to complete a minimum of 33 credit-hours of pre-pharmacy courses including english, calculus, biology, organic and physical chemistry, physics, and general education courses required by the university.

Admission is based upon academic and non-academic criteria including a competitive GPA, TOEFL and PCAT scores, pharmacy volunteer

experience, references and a structured interview. Annual enrollment is currently limited to 25 qualified female students.

For additional information regarding application and admission requirements, please visit the college website at www.qu.edu.qa/pharmacy.

Curriculum

The full-time BSc (Pharm) Program is 173 credit-hours of courses in classroom, laboratory and practical settings. Courses include:

- Biochemistry
- Pharmaceutics and Biopharmaceutics
- Physiology
- Microbiology
- Pharmacology
- Pharmacotherapeutics
- Patient Assessment Skills
- Pharmacy and Health Care
- Pharmacy Ethics and Law
- Pharmacy Management
- Pharmacy Research, Evaluation and Presentation Skills
- Integrated Case-Based Learning
- Medicinal Chemistry
- Anatomy
- Pathology
- Pathophysiology
- Pharmacokinetics
- Professional Skills
- Interpretation of Clinical Lab Data
- Pharmacognosy and Alternative/ Complementary Therapy
- Health Care and Delivery Systems
- Statistics
- Pediatrics and Geriatrics
- Pharmacoepidemiology and Pharmacoeconomics



Students also spend approximately 24 weeks in structured practical experiential training in pharmacy (SPEP). Rotations locations include HMC hospitals, Primary Health Care Clinics, Qatar Petroleum, Ebn Sina Medical, Well Care Group, and International Medical Company under the mentorship of qualified pharmacy practitioners.

The PharmD program involves an additional 36 credit-hours of clinical training, primarily in advanced pharmacy practice and research rotations.

Teaching and Learning

The program is committed to provide an optimal teaching and learning environment to facilitate student understanding of the pharmaceutical and clinically-based course content. Best practices are adhered to and evidence-based course content is taught using a student-centered approach designed to stimulate critical thinking.

Technology in the Classroom



Innovation technology is highly embraced by the college in all areas. The college was the first institution in Qatar to purchase Cerner Academic Education Solution (AES) software which simulates virtual patients for the students to gain experience working with electronic medical records (EMR). This tool allows students to train in an environment that mirrors the hospital setting. Students can have 1000 virtual patients with simulated case studies which also strengthens inter-professional education (IPE) in a clinical setting between the physician, nurse and pharmacist.

All pharmacy courses are delivered using Blackboard Course Management Software. Lecture capture software is also adopted to ensure students can access all previous courses and lectures at their convenience throughout their program. EBooks and electronic databases are employed whenever possible to facilitate easy off and on-campus access by all students and faculty members. Downloadable and streaming audio and video files are also used. Students are expected to access these resources on a daily basis, and to become skilled at pharmacy informatics prior to graduation.

Faculty and Staff



The program is delivered by a multidisciplinary team of full-time faculty members who have received terminal degrees from prestigious institutions in various international settings. Faculty members are responsible for maintaining a balanced portfolio of teaching, research and academic service. Most faculty have experience as practitioners, and their ongoing collaboration with professional partners ensures relevance of the curriculum.

College of Pharmacy Partners

The strength as a college is dependent, in part, upon the collaboration with other academic units, affiliated health care organizations and professional partners.

The college has established strong links with the Department of Biomedical Science and Human Nutrition, Chemistry, and Math/Physics at Qatar University. Close ties have also been established with the **Supreme Council of Health, Hamad Medical Corporation, Qatar Petroleum, Sidra Medical Research Centre, Qatar Diabetes Association, Ebn Sina Medical, Well Care Group, Shafallah, Primary Health Care, Qatar National Cancer Society, Boots Al Shaya, International Medical Company, Anti-Doping Lab Qatar, Qatar Pharma, Think Pink Qatar, University of Calgary-Qatar, Weill Cornell Medical College in Qatar and College of the North Atlantic Qatar.**

International partners include **Purdue University, University of British Columbia, Medical University of South Carolina, University of South Carolina and the Xavier University of Louisiana.** The college continues to seek opportunities for collaboration with other education, research and practice-oriented organizations who share the same vision for the future.



Doctor of Pharmacy Degree

The college offers a Doctor of Pharmacy (PharmD) degree program that began in September 2011. The PharmD program is designed to prepare promising BSc (Pharm) graduates for a fulfilling career in advanced clinical pharmacy practice, research and academia. It was approved by the Qatar University Board of Regents in parallel with the BSc (Pharm) program in 2007.



The PharmD program was accredited by the Canadian Council for Accreditation of Pharmacy Programs (Canada) for an advanced degree in the health sciences field. The goal of the program is to educate pharmacy practitioners to become highly proficient in the delivery and evaluation of pharmaceutical care, and to further advance the practice of pharmacy.

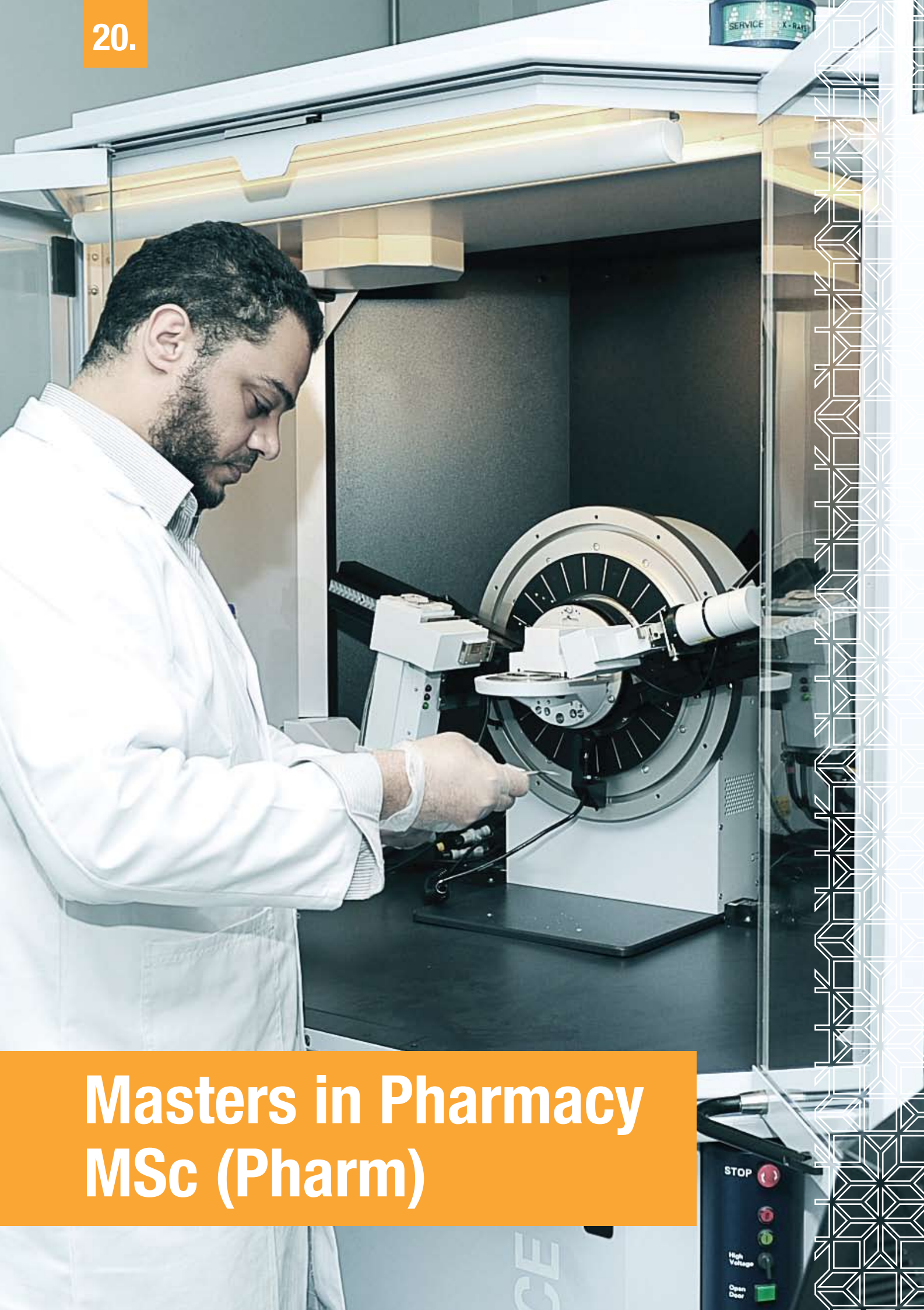
The PharmD program study plan is offered in two parallel streams. A full-time study plan is available for Qatar University students who have completed the 173 credit-hour BSc (Pharm) degree program and have been selected to complete an additional 36 credit-hours of full-time course requirements (209 credit-hours total) over a 12-month period.

A 3-phase (qualifying, didactic, internship) part-time study plan is also available for select resident Qatar pharmacy practitioners with an approved BSc (Pharm) degree from another university who wish to continue their post-baccalaureate training while practicing in Qatar. This part-time study plan emulates similar programs offered by North American universities. A minimum of 59 credit-hours of didactic course work,

evening workshops and full-time internships will be required. Successful applicants will be required to complete a series of qualifying courses to progress to the balance of the study plan.

The application process opens in late January or early February and closes in late May every year. Admission is competitive and seats are limited. All applicants will be required to provide official Academic Transcripts, Proficiency in English test scores, SCH Qatar Pharmacist Licensure test scores, Reference Forms, Curriculum Vitae, Qatar Residency and related documentation. A written/verbal competency assessment examination will be conducted. Select applicants will be invited for structured interviews.

Information regarding scholarships available to successful program applicants can be found on our website (www.qu.edu.qa/pharmacy) on the scholarship page. For general information, please contact pharmd@qu.edu.qa



Masters in Pharmacy MSc (Pharm)

The college offers a Master of Science in Pharmacy MSc (Pharm) Degree program.

The program was approved by the Qatar University Board of Regents in May 2010. The MSc (Pharm) degree program is a two-year minimum 33 credit-hour post-baccalaureate thesis-based research-oriented graduate studies program designed to build on the undergraduate degree experience and further enhance critical thinking and research skills. The MSc (Pharm) degree program will also prepare students who wish to pursue a future Doctor of Philosophy (PhD) degree.

The specific program objectives are to:

- 1) provide an opportunity for students to advance their knowledge, skills and attitudes in specific areas of interest within the pharmaceutical sciences;
- 2) prepare students for research, teaching and specialty positions requiring personnel with a strong background in these specialty areas, and;
- 3) develop students with the research skills needed to carry out basic and applied studies.

Graduate students specialize in one of the five pharmaceutical sciences research focus areas represented in the college:

- Clinical and Pharmacy Practice – *New!*
- Pharmacognosy
- Medicinal Chemistry
- Pharmacology
- Pharmacokinetics
- Pharmaceutics

The scope of the degree will include any aspect of the discovery, development, analysis and use of medicines to improve health care and related outcomes.

The application process is coordinated by university admissions and is made on an annual basis. The online application process for students admitted in September opens in late January and closes in late May every year. The admission process is competitive and the number of available seats is limited.

All applicants are required to provide official Academic Transcripts, Proficiency in English, Reference Forms, Curriculum Vitae, Residency and related documentation. Final admission decisions will be made before July 1st each year. Provisional decisions are made as applications are received and reviewed by the Admissions Committee so applicants are encouraged to apply early.

Information regarding scholarships and graduate assistantship (GA) awards available to successful program applicants can be found on the scholarship page of the college website. For additional information, contact mscpharm@qu.edu.qa. Please ensure you have carefully read the information provided on the website before you seek additional information by email. Interested individuals should contact faculty members within the Pharmaceutical Sciences Section for further information regarding their research focus area.

Doctor of Philosophy (PhD)

The College of Pharmacy is currently in the planning stages for the upcoming PhD program and anticipates more details to be announced shortly. The college website will have the latest information on program launch date and the application process.

Research

The research mission of the college is to create and disseminate knowledge related to drug entities, products, therapy and medication use for the purpose of advancing health outcomes and quality of life.



Researchers in the college are committed to the following fundamental principles that have been promulgated by The Council of Canadian Academies:

- Conduct research in an honest search for knowledge (Honesty, Fairness, Trust, Openness)
- Foster an environment of research integrity, accountability, and public trust (Trust, Accountability)
- Know your level of competence and your limitations; act accordingly (Honesty, Trust, Accountability)
- Avoid conflict of interests, or if cannot be avoided, address them in an ethical manner (Trust, Accountability, Openness)
- Use research funds responsibly (Honesty, Accountability)
- Review the work of others with integrity (Fairness, Trust)
- Report on research in a responsible and timely fashion (Trust, Openness)
- Treat data with scholarly rigor (Honesty, Accountability)
- Treat everyone involved with research fairly and with respect (Fairness, Trust)
- Acknowledge all contributors and contributions in research (Fairness, Accountability, Openness)
- Engage in the responsible training of researchers (Fairness, Trust)

Faculty members are actively engaged in a variety of independent and collaborative research projects (many with leading western universities and research institutes) aimed at the improvement of health outcomes. Projects topics ranging from innovative pharmaceutical dosage forms to improving quality of life of asthmatic patients; from breast cancer awareness to diabetes during pregnancy, from antioxidant properties of hibiscus and green tea to neurotransmitter benefits in autism; from topical progestin for endometrial hyperplasia to OTC medications. Faculty members have already successfully pursued national and university competitive research funding grants and recognition of their diverse research expertise is growing.

For a list of the peer-reviewed publications, presentations and abstracts published by the members, please refer to the college research page: <http://www.qu.edu.qa/pharmacy/research/index.php>

If you are interested in the research activities of any of the members, please feel free to browse the research faculty bio webpage and contact the faculty member directly.

Scholarships, Sponsorships and Assistantships

From Qatar University, Ebn Sina Medical, Sidra Medical and Research Center & Hamad Medical Corporation



Qatar University provides a large number of academic and financial need-based scholarships each academic year.

These scholarships are available to undergraduate and graduate students. For information about undergraduate student scholarships including criteria and application procedures, visit the Qatar University Academic Scholarship website. For information about post-baccalaureate scholarships, visit the Qatar University Scholarship Office website <http://www.qu.edu.qa/students/admission/scholarships/>

The College of Pharmacy, in affiliation with its clinical partners, also provides scholarship awards for undergraduate and graduate students. Starting in 2011, Ebn Sina Medical generously supports five scholarship awards annually based upon academic performance and future promise to the profession. In 2012, Sidra Medical and Research Center initiated a scholarship program to help students obtain the necessary qualifications to begin a career with this organization. Sidra supports students in clinical majors and research programs, including the degree programs in the college. For further information, you can download a PDF copy of the latest scholarship brochure or find further information on the Sidra website <http://www.sidra.org/Careers/view/important/sidra-scholarship-program>

Hamad Medical Corporation (HMC) is also offering sponsorship to pharmacy students throughout their undergraduate and graduate programs. Interested students can apply at the College of Pharmacy.

Commencing in November 2011, the Higher Education Institute of the Supreme Council for Education (HEI SCE) recognizes the College of Pharmacy Doctor of Pharmacy and MSc (Pharm) degree programs amongst the 910 best universities and colleges from around the world. The list identifies the best universities for scholarship recipients based on international ranking criteria to achieve the best academic and research outputs and allows parents to choose the best option for their children. For further information, visit the HEI SCE website. The list of official universities and colleges includes many Qatar University post-baccalaureate programs. Scholarships application details are available on the entry requirement webpage.

Starting in Spring 2012, Qatar University offers Graduate Assistantship (GA) awards on a competitive basis to selected newly admitted graduate students applying from inside Qatar as well as from other countries. Applicants who satisfy admission requirements and eligibility for the assistantship will be considered for the award. Graduate assistants are full time postgraduate students registered toward the fulfillment of a graduate degree requirement at Qatar University. <http://www.qu.edu.qa/pharmacy/scholarships.php>

These and other scholarship awards are expected to be conferred on an annual basis.

Continuing Education



The Continuing Professional Pharmacy Development (CPPD) Program of the College of Pharmacy at Qatar University reflects the commitment of the college to the continuing professional development of pharmacists in Qatar. The goal of the CPPD Program is to support the lifelong learning of all practicing pharmacists to ensure optimal patient care. The CPPD Program achieves its mandate, in part, through the provision of educational programs that will improve and expand the competency of pharmacy professionals, researchers,

scientists and allied professionals involved in pharmacy practice.

The competency expectations promoted by the CPPD Program are those originally developed by the National Association of Pharmacy Regulatory Authorities (NAPRA) in 2007 which have been adopted and adapted with written permission as the Professional Competencies for Qatar Pharmacists at Entry to Practice (2011).

Accredited by the Qatar Council for Health Practitioners of the Supreme Council of Health (SCH) and ACPE (USA).

Community Engagement

Pharmacy students are active in promoting optimal health, raising awareness to diseases prevalent in Qatar and promoting the role of the pharmacists through numerous events held during each school year.



Community Engagement is an important activity to allow students to integrate the knowledge and skills learned in the classroom with direct interaction with members of the community in Qatar. Previous campaigns include "Talk to your Pharmacist", "Use Your Medication Wisely", "Breast Cancer Awareness" and "Diabetes Awareness" events have contributed towards the achievement of program goals.

Student Associations



“Science is our method, health is our goal” is the motto for the Qatar Pharmacy Undergraduate Society (QPhUS).

This society is open to all QU BSc Pharmacy students and was formed in 2008. The society has a Constitution, holds General Assemblies, annual elections and participates in numerous activities related to health care. Members communicate through Blackboard where they can interact with Society's members, pharmacy students and faculty members. One annual activity is the Little Sister-Big Sister Mentoring Program where first year students are randomly chosen to twin with more senior second and third year students for mentoring and advice and to help them with their orientation around the College and the QU campus.

Qatar has been an active member of the International Pharmacy Student Federation (IPSF) since 2008 at both the regional and international level. This large international organization comprises over 350,000

pharmacy students from 70 countries. Every year Qatar sends student delegates to the annual conferences with over 500 pharmacy students from around the world at the 11-day educational, scientific and cultural symposium. The event includes a scientific poster competition and presentations from experts on the latest in scientific research and technological advancements. The students also participate in a number of educational activities such as lectures, student skills competitions, regional assemblies and student-led workshops, as well as cultural trips. The Qatar Society won “Best New Rookie” Association in 2010 at the annual event and QPhUS students have performed well in the international competitions. In 2011, QPhUS hosted the 2nd Annual Eastern Mediterranean Pharmaceutical Symposium in Qatar which brought 150 students from 17 countries to Qatar for a 7 day conference.

White Coat Ceremony



The College of Pharmacy holds an annual White Coat inauguration ceremony for all incoming pharmacy students.

The symbolic event includes the taking of the Oath of a Pharmacist by the new pharmacy students and donning the pharmacist's White Coat. Attendees include educational partners, research partners and training affiliate partners as well as CPH students and their families, CPH faculty, alumni, staff, and well-wishers.

Pharmacy – The Career Opportunities



Pharmacists are medication experts. These professionals function as clinical practitioners in hospital or institutional settings, educators, researchers, and as consultants in many other settings. Pharmacy practice focuses on the rational use of medications.

Historically, the major patient-oriented, professional functions associated with such practice involved preparing the drug product and providing the product to the patient. While these continue to be important components of pharmacy practice, the profession of pharmacy has evolved many new functions and responsibilities in response to the increasing complexity of pharmacotherapy. The college is continuing its dynamic plan to meet the healthcare needs in Qatar, in line with the National Vision 2030.



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