



EDUCATING THE PHARMACIST GRADUATE OF 2020

Faculty of Pharmaceutical Sciences, The University of British Columbia

BACKGROUND

Curriculum review activities at the UBC Faculty of Pharmaceutical Sciences (FoPS) gained momentum in August 2009 with a small Curricular Working Group responsible for conducting **Field Research** (review of Blueprint for Pharmacy and draft AFPC Educational Outcomes; attendance at AACP Curricular Summit; analysis of Faculty survey of recent graduates and their supervisors; etc), **preparing the Pharmacist Graduate of 2020 document** and organizing two **Faculty Curriculum Retreats**. Subsequent to the retreats, **four Working Groups (WG)** and a Liaison Committee were struck to formulate recommendations on how to revise the current curriculum in order to better train students with the goal of graduating the *Pharmacist Graduate of 2020*

GRADUATE OF 2020 WORKING GROUPS

LIAISON COMMITTEE

Goals & Responsibilities

- Facilitate communication and sharing of information between Working Groups
- Plan follow-up meeting for Working Groups to prepare their recommendations to the Faculty
- Identify areas of overlap
- Support Working Groups in achieving their goals

Progress Report

- Associate Dean and Director of Entry-to-Practice Program, and Chairs of each Working Group met every two weeks to share information, identify concerns and provide support to Working Groups
- Set up an online repository for Working Group field research, meeting minutes and progress to enhance communication between Working Groups and the Faculty at large
- Organized a meeting in May 2010 where Working Groups met jointly to develop recommendations to the faculty

ADMISSIONS & PRE-REQUISITES

Mandate

To review undergraduate admission requirements and make recommendations to the Faculty about the admissions process, criteria, etc., consistent with the vision of the Pharmacist Graduate of 2020.

Goals

- Review developments in the profession of pharmacy of relevance to student selection for entry into the Faculty
- Review admission prerequisites for the Faculty and from a sample of Faculties of health professions in Canada and the US
- Communicate with faculty members so they are consulted and informed as appropriate about matters related to the admissions process and pre-requisites
- Provide recommendations to Faculty regarding the undergraduate admissions process and pre-requisites

Field Research

Pre-Requisite Field Research:

- Review and examination of Faculty pre-requisites and first year non-pharmacy course content
- Exploration of all available alternative pre-requisite non-pharmacy courses
- Review of admission requirements for other pharmacy programs in Canada and health professional programs at UBC
- Review of pre-professional curriculum across the US
- Exploration of individual elements of PCAT (Pharmacy College Admission Test)
- Identified gaps and redundancies in current foundational knowledge (i.e., genetics, immunology, etc)

Admissions Process Field Research:

- Review and discussion of current Faculty application process (timeline, etc)
- Exploration of potential future expansion of elements of the Multiple Mini Interviews process
- Review of admission processes for other Canadian pharmacy programs and health professional programs at UBC

WG Chairs: Dr. Patricia Gerber & Mr. Tamiz Kanji

CURRICULUM 2020

Mandate

To review the existing undergraduate pharmacy curriculum and identify areas for refinement, improvement and expansion, consistent with the definition of the Pharmacist Graduate of 2020

Goals

- Assess the UBC FoPS Ability-Based Outcomes for the B.Sc. (Pharm.) degree document and compare it to a variety of sources including:
 - the updated AFPC Ability-Based Outcomes
 - the NAPRA Model Standards of Practice for Canadian Pharmacists (March 2009)
 - the Canadian Association of Pharmacy Technicians expanded scope of practice
 - the Blueprint for Pharmacy
 - the AFMC Future of Medical Education in Canada
 - the AFPC/ADPC Statement on PharmD for First Professional Degree at Universities of Canada
- Use the UBC FoPS Ability-Based Outcomes (ABO) document, in conjunction with the above sources, to identify specific content and/or ABO gaps, overlap, and synergies between courses within each year of study and across all four years of study.
- Recommend additions, deletions and changes to specific curriculum content and curricular structure to enhance learning experience consistent with the definition of the Pharmacist Graduate of 2020

Field Research

- Review and mapping of Faculty's Ability Based Outcomes, AFPC Educational Outcomes, and Pharmacist Grad of 2020 Skills and Competencies
- Review of curriculum content and structure from a sample of schools of health professions in Canada and the US
- Review of comparison between current learners vs the new millennial learner and expert professionals vs novice learners
- Review of developments in the profession of pharmacy relevant to student preparation for practice

WG Chair: Ms. Hilary Watson

INSTRUCTIONAL & ASSESSMENT STRATEGIES

Mandate

To identify instructional strategies that align with educational outcomes and approaches to assessment of learning that evaluate achievement of educational outcomes of the evolving undergraduate curriculum that are consistent with the definition of the Pharmacist Graduate of 2020.

Goals

- Identify specific innovations, applications, expertise and other instructional & assessment-related strategies that support teaching and undergraduate student learning consistent with the definition of the Pharmacist Graduate of 2020.
- Recommend ways for existing and new instructional strategies and assessment of learning approaches to be integrated together.
- Identify, at a high level, the approximate costs for the recommended instructional strategies and assessment of learning approaches

Field Research

- Review of existing instructional strategies within the Faculty
- Review of relevant instructional design literature
- Review of instructional strategies from a sample of Faculties of health professions in Canada and the USA (i.e., U of Kentucky, U of Alberta, etc)
- Gathering teaching and learning assessment techniques to prepare an online teaching "toolbox"
- Identified instructional gaps (i.e., immunization, physical assessment, etc) in current curriculum and explore potential strategies to bridge gaps/teach skills
- Developing process for evaluating effectiveness of implementation of any new teaching and assessment techniques

WG Chairs: Dr. Ingrid Price & Ms. Tessa Nicholl

TECHNOLOGY

Mandate

To identify technology-related approaches (information management, information technology, instructional technology and technology personnel) that enhance the organization, support and delivery of the evolving undergraduate curriculum consistent with the definition of the Pharmacist Graduate of 2020

Goals

- Identify specific innovations, applications, expertise and other technology-related approaches that enhance the organization, support and delivery of the evolving undergraduate curriculum consistent with the definition of the Pharmacist Graduate of 2020
- Recommend ways that existing technology, university-wide technology plans and recommended technology-related approaches can be integrated together
- Identify, at a high level, the approximate costs for the recommended technology-related approaches

Field Research

- Review of existing technology-related approaches in use within the faculty and in other UBC health professional programs
- Review of specific innovations, applications, expertise and other technology-related approaches that support teaching and undergraduate student learning from a sample health professional programs in Canada and the US
- Review of technologies used in pharmacy practice that are not currently available to students in the undergraduate learning environment
- Identified educational-related technology needs for new building (i.e., lecture capture technology & online repository, technological devices for instruction and learning, etc)
- Identified human resource needs related to expertise in instructional technology, information management, and information technology

WG Chair: Dr. Urs Hafeli

NEXT STEPS

Working Groups Joint Meeting
May 31st Report, Plan & Prepare Recommendations for Faculty

Key Stakeholder Involvement
Students
Pharmacist practitioners
Licensing bodies
Other health care providers
Ministry of Health
Corporate and Independent Pharmacy

Strategic Planning
Align with UBC's Strategic Plan: Place & Promise

Implementation Plan
Prepare Curriculum Implementation Plan for upcoming increase in class size (Sept 2011) and new Faculty building (Sept 2012)