Specialization Electives

November 30, 2015
Faculty of Pharmacy & Pharmaceutical Sciences
Agenda

• Background
• Specialization electives requirements
• Presentations by course coordinators
• Questions from students
Background

Goals of this presentation

• Provide information about specialization electives
Specialization Electives

- Nine credits in the fourth year of the program
- A list of selected courses is approved by the Faculty
- At least 3 of the 9 credits must be taken as a PHARM course
- All 9 credits must be:
  - University of Alberta courses
  - Taken during year four of the program
- Transfer credit is not accepted for Specialization Electives

Section 144, University of Alberta Calendar
Bachelor of Science in Pharmacy

Students wanting to further develop their intended pattern or specialization may want to select courses from the list of pattern-related electives identified by the Faculty of Pharmacy and Pharmaceutical Sciences. At least three of the nine Specialization Electives must be taken as a PHARM course. You have two options to obtain the Specialization Electives list:

- View or download the approved list of Specialization Electives for fourth-year students.
- View or download the Specialization Electives Power Point Presentation

If you have questions please contact Student Services: phstud@ualberta.ca

Specialization Electives must be University of Alberta courses and must be taken during year four of the program. Transfer credit is not accepted for specialization electives.

*Options: see University of Alberta Calendar §144.1.2 Program of Courses, scroll down to Options sub-heading (beneath Specialization Electives sub-heading)

Options normally are selected from courses offered outside the Faculty of Pharmacy and Pharmaceutical Sciences. These courses allow students to pursue areas of personal interest and promote a liberal education.

Note: Only one junior course from each subject area is permitted. Junior courses are those numbered 199 or lower.
Considerations when selecting courses

• Impact on scholarships, bursaries, awards
  – Full time enrollment is often required for maintaining funding, or applying for new awards or funding
  – Enrollment distributed through many terms may affect your eligibility for awards or funding as you will have less than full time enrollment
  – It is the student’s responsibility to consider eligibility for awards or funding when planning fourth year course registration
What You Can Select From

- PHARM courses
  - Coordinated and offered through the Faculty of Pharmacy & Pharmaceutical Sciences

- Courses offered by other faculties
  - Extend learning in the pharmacy curriculum related to pharmacy practice, pharmaceutical sciences, management, research, or other areas that align with the student’s educational/professional goals
  - 300 level or higher
Considerations when selecting courses from other Faculties or Departments

Pre-requisites:

- Some courses have pre-requisites that must be met prior to registration. Refer to University of Alberta Calendar (Section 231) or contact the Department.

- Some pre-requisites for pharmacology courses (PMCOL) may be waived by the Department of Pharmacology for pharmacy students. Please contact the Department of Pharmacology or the Course Coordinator prior to registration.

Fees

- In some cases, other course fees are associated with courses. (E.g. SMO 301.)

- Please consult the Department regarding fees.
Examples of course available through other Faculties, Departments

Accounting
Anthropology
Botany
Community Service Learning
Drama
Interdisciplinary

Human Ecology
Nutrition
Oncology
Philosophy
Pharmacology
Psychology
Sociology
PHARM 452: Pharmacy Practice Design and Function

• Team-based course
  – Industrial design, computer science, occupational therapy
• Assignments (written, presentation)
• Project-based team activity is the focus
• Limited enrollment
• Held Tuesday afternoons, fall semester
• Current students will be presenting their term work to 3rd year students at the end of term
PHARM 455: Specialty Pharmacy Rotation

• Student-initiated specialty rotation; learning objectives are designed by student and approved by preceptor and course coordinator
• Three credits (120 hours of clinical time); may be repeated once in different term as preceptor availability permits
• Can be taken in any term (due dates outlined in syllabus)
• Preceptors: Any pharmacist meeting requirements as outlined in syllabus (must ask coordinator before approaching preceptor)
• Assessment: by preceptor + required presentation to course coordinator at end of course
• Full syllabus can be found on website: http://pharm.ualberta.ca/preceptors/course-information
• Information session on Dec 1 from 0830-0920, MSB 2-31
# PHARM 489: Seminars in Therapeutics and Professional Practice

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<th><strong>Objective</strong></th>
<th>To further develop the student’s practical therapeutic knowledge, application of a systematic patient care process, and application of evidence-based medicine principles to identify and prioritize actual and/or potential DRPs</th>
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| **Format**    | Introductory workshops/lectures on course format, pharmaceutical care process, and critical appraisal  
• Therapeutic debates  
• Group-based case presentations on various therapeutic areas |
| **Schedule**  | Once a week (3 hours) |
| **Assessment**| Quizzes  
• Case Presentation, documentation  
• Participation  
• Debates  
• Final Exam |
| **Reason You Should Take This Course** | The goal of this course is to bring together everything you’ve learned over the past years and further develop and refine your process for literature review, pharmaceutical care, critical thinking and preparing presentations. |
PHARM 494: Pharmacy Management

- Pharmacy management is a dynamic and rapidly evolving career choice
- Learn the practical skills to manage and lead
- Activities include group and individual projects
  - Business proposals, business cases, literature review
  - No examinations
- Teaching by lecture, case studies, student seminars
- Offered every Thursday morning
PHARM 498: Research and Directed Studies

- Research/Project Based Course
- Objective: To provide students with an opportunity to carry out a rigorous research project.
- The course is designed for both science and practice based research
- Requires the preparation of a written report and presentation
- To enroll, students must submit a one page proposal/description of a research project to be carried out under the supervision of a Pharmacy faculty member
- The course is a credit/no-credit course
- Evaluation of the report and presentation is carried out by the supervisor and one other invited faculty member
PHARM 453 Intercultural Exploration of Pharmacy & Health

Schedule: 3 week course in Forio, Italy May 2-20\textsuperscript{th}, 2016

Focus: Relationship between culture, diet, lifestyle, and health
Pharmacy practice and education in Italy Global citizenship, Food security and the Mediterranean diet

Format: Group work and individual assignments

Assignments: Debates, pharmacy practice simulation, critical reflections, Mediterranean diet and food security project.

Grading: Graded course based on assignments (no exam)

Credits: 3

Coordinators: Professors Teri Charrois and Cheryl Cox

INT D 375 available May 23-June 10\textsuperscript{th} (Does not qualify as Pharmacy specialized elective but is an eligible specialized elective)
CSL 480 – Faculty of Arts

• Individual directed study on topics for which no specific course is currently offered. Provides students with the opportunity to engage in focused study of either a specific organization/context or the theory of service learning.

• Generally these courses will include a community based service learning component and can be taught by any interested instructor.
CSL 480 – Facilitation of Pharm 300

**Primary Objective:** To critically analyze the principles and goals of service learning and the role in pharmacy education. Concepts of citizenship, community engagement and learning from experience are included.

The service learning component involves direct facilitation of group seminars with the Pharm 300 students and provision of feedback with respect to critical thinking skills and the role played in community engagement in higher education.

**Grading:** Based on written assignments and participation in CSL 480 seminar discussions

**Schedule:** Weekly seminars: 480 seminars on Wednesday morning 9-12 or Pharm 300 seminars & lecture

**Pharm 300 Seminars** – Tuesday and Thursday 11:00 – 12:20: Nov 1 and 3rd and Nov 29/Dec 1st 2016 & Lecture: Sept 8, Oct 13 & Nov 22

**Capacity:** 10 students (fall term only)

**Credit:** 3

**Coordinator:** Cheryl Cox
Int D 457: Global Health/China Collaboration

Interdisciplinary, intercultural course jointly offered by the U of Alberta and Fudan University. Coordinated in 2016 through the Faculty of Medicine, Division of Community Engagement. Instructors are from the U of Alberta and Fudan University and students are from the disciplines of pharmacy, medicine, nursing (U of Alberta) and public health (Fudan University)

Location: Fudan University, Shanghai, China

Topics: global health; social determinants of health; the United Nations’ Millennium Development Goals; the comparison of health care systems in China, Canada, and other nations

Expected Dates for 2016: July 4-22nd, 2016

Registration: opens on eClass Recourse Course for Class of 2017 Nov 30th.

Capacity: Total course capacity 30 students ( pharmacy students capacity of 10 )

Cost: Registration is approximately $1660. Additional costs include airfare, accommodation and meals. Travel award available ($750).

Delivery format: classroom instruction; group seminars; on-line discussion forums;

Field Experiences:
- Shanghai University of Traditional Chinese Medicine (TCM)
  Integrated health care centres where both western and TCM are practiced
- Community health centres

Credits: 3
PHARM 570: Advanced Pharmaceutical Analysis

- Designed to train graduate and undergraduate students in spectroscopic analysis of drugs.
- It includes the study of:
  - Infrared spectroscopy (UV/Vis)
  - Ultraviolet/visible spectroscopy (IR)
  - Mass spectrometry (MS)
  - Nuclear magnetic resonance spectroscopy (NMR)
- It includes theory and practice (8 labs)
- Evaluation: midterm, final, and assignments (8).
PHARM 573: Analytical Techniques in Pharmaceutical Sciences

• The course emphasizes the key skills required to study and explore recent trends in pharmaceutical analysis and the latest analytical technologies.
• Focus is on core analytical techniques such as chromatography, LC-MS, ELISA, and electrophoresis
• Teaching format includes lectures and hands-on laboratory sessions.
• Prerequisite: Pharm 570
• Offered: every second year (January 2017)
• Coordinator: Dr. Paul Jurasz
Certificate in Global Citizenship
Faculty of Education

- Requires 12 credits of study: required course, IntD 404, and the choice of **9 credits from a list of courses** from various Faculties across campus.
- Approved (Oct 21, 2015): PHARM 300 and several specialization electives. For information about the approved specialization electives, see the Faculty’s website

**List of courses:**

- For more information about the Certificate:
  https://www.registrar.ualberta.ca/calendar/Undergrad/Education/Programs/75.19.html#75.19
Questions?