Course Overview

This 1-credit elective course is designed to develop skills that will enable pharmacy students to provide public health screening and health promotion in community-based settings. Students will be trained in the practical aspects of conducting initial screening for administration of vaccines to adults and adolescents; practical application of cholesterol, hypertension, bone mineral density, and wellness assessment techniques and counseling for health behavior modification; drug administration, counseling and referral for immunizations. Following didactic and laboratory training, students will obtain hands-on practice in pharmacist-managed clinics at community locations.

Prerequisites: MEDCH 401, completion of first professional year

Each student who wishes to receive certification as an Immunization Provider from the Washington State Pharmacy Association (WSPA) is required to vaccinate patients of a pharmacy practice during the influenza immunization effort, October - December. WSPA certification also requires satisfactory completion of this course and training in cardiopulmonary resuscitation.

Didactic Training

Immunizations

Building upon the vaccine-preventable disease information students obtained in MEDCH 401, PHARM 445 will extend the training to practical applications of immunization: storing and managing vaccines, taking immunization histories and reporting and monitoring subsequent immunizations, administering vaccines, and initiating emergency procedures in the event of immediate adverse reaction. The didactic training corresponds to that provided to practitioners enrolled in the Washington State Pharmacists Association immunization certification program, which was developed and distributed by the Centers for Disease Control and Prevention of the U.S. Public Health Service.

In addition to the didactic sessions there will be laboratory sessions in which students will be taught how to administer intramuscular and subcutaneous injections. Students may administer influenza vaccine to each other if they choose to receive influenza vaccine at this time. Otherwise, students will administer normal saline solution.

Chronic Disease Risk Assessment

Students will receive didactic teaching related to basic nutrition and risk assessment screening tools for osteoporosis, hypercholesterolemia, hypertension, and Type 2 diabetes. Students will have training and practice administering finger sticks, measuring blood pressure, and using Cholestech, Osteoanalyzer and other bone mineral density test machines for screening.
Required Textbook
The 8th edition of *Epidemiology and Prevention of Vaccine-Preventable Diseases* is required for this course. This text, also known as the “Pink Book”, is available on the website for the Centers for Disease Control and Prevention at: [http://www.cdc.gov/nip/publications/pink/](http://www.cdc.gov/nip/publications/pink/)

It is recommended that you download the chapters and appendices for which you will be responsible. This material should be review for you; it was included in Medicinal Chemistry 401 class last spring.

Attendance and Participation
Students are expected to attend all lectures and are required to attend all laboratory sessions in order to achieve their potential in the various skills. Please consult the attendance policy or contact Dr. Hagel if you have questions.

Class Decorum and Dress Code
This is a PROFESSIONAL practice course. Course faculty strive to create a positive educational environment so that all students can achieve their potential. In turn, students are expected to conduct themselves with the utmost honor and integrity, and behave and perform as professionals-in-training, i.e., demonstrate respect for course instructors, their peers and themselves; participate in all course activities with purpose and a positive attitude; and abide by course and School of Pharmacy policies.

Almost all professional pharmacy practice environments have a minimum dress code, whether it is written or unwritten. Students, instructors and teaching assistants in this course will be expected to dress in a professional manner while participating in lab sessions. Inappropriate dress includes: any kind of jeans (denim skirts OK), any type of casual hat (e.g., baseball caps, fisherman hats, stocking hats), shorts, tee-shirts, any type of sweat pants or sweatshirts, short skirts or revealing blouses, halter tops, tank tops, midriffs, backless tops, fatigues, etc. The course grade may be affected for failure to follow the dress code.

Evaluation and Grading
This course is evaluated as credit/no credit.

Credit for course performance will be based upon the following:
1. Participation in lecture and lab sessions- this will be assessed through a series of one minute papers in lecture and successful completion of pre-lab assignments, lab activities and clinical skills checklists
2. A score of 70% or higher on a standardized immunization certification exam
3. A score of 70% or higher on an examination covering chronic disease risk assessment and counseling
4. Completion of a community immunization practicum for those seeking WSPA certification
Requirements for Washington State Pharmacy Association (WSPA) Immunization Provider Certification

CPR Training
Students must satisfactorily complete a certification program in adult Cardiopulmonary Resuscitation in order to obtain WSPA certification as an Immunization Provider. Students are advised to identify teaching sites and to obtain the CPR training as soon as possible. It is not necessary to have completed CPR training for course requirements, but it is necessary for WSPA certification.

Immunization Practicum
Students who wish to receive WSPA certification as an Immunization Provider must complete one assigned shift (a minimum of four hours) of vaccine injection experience in a community pharmacy or other community setting managed by a pharmacist. In addition, students have the option to provide community-based screenings with a pharmacist preceptor. The site preceptor must complete an evaluation form and it should be returned to Dr. Julie Hagel. Practicum experience opportunities for vaccine administration and community-based screening have been established in multiple locations during Autumn Quarter, or students may complete their practicums at their worksites.

Students will be required to sign a UW waiver of responsibility for needlestick injuries and turn in to Dr. Hagel on the first day of class.

Students must have the site preceptor sign an evaluation form to be returned to Dr. Hagel.

Costs
Certification as an Immunization Provider by the Washington State Pharmacists Association costs $25. The fee includes a practicum manual, "Immunization: A Manual for Pharmacists", which is available in class. Students should bring cash or check payable to WSPA on the first day of class.