

# PHARMACY (PHAR)

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## **PHAR 1101 Credits: 4.5**

### **Professional Practice 1 Total Hours: 90**

This course introduces students to the pharmacy profession and the role of pharmacy in providing health care services. The course also provides an overview of the Canadian health care system, including the roles and responsibilities of health care professionals. The standards of practice, federal and provincial legislation governing pharmacy practice, and workplace safety issues are also discussed. The course also includes medical terminology, anatomy, physiology and development of keyboarding skills. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1102 Credits: 3**

### **Pharmacology & Therapeutics 1 Total Hours: 60**

This course introduces the study of pharmacology and therapeutics. General concepts of how drugs affect the body, routes of drug administration and dosage forms are discussed. Drugs affecting the nervous, musculo-skeletal, respiratory and cardiovascular system are studied. Prescription, non-prescription and alternative therapies are included. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1103 Credits: 1.5**

### **Pharmacy Calculations 1 Total Hours: 30**

This course emphasizes the calculations required to accurately fill prescriptions and prepare pharmaceutical products in a community pharmacy. Systems of measure, conversions between systems, drug strengths, quantities and volumes required to fill prescriptions, prepare stock solutions and compound extemporaneous products are included. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1104 Credits: 1.5**

### **Pharmacy Communications 1 Total Hours: 30**

This course introduces the interpersonal and communication skills required to work effectively in a pharmacy setting. Collaboration, effective group dynamics, professionalism, ethics and customer service are discussed. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1105 Credits: 1.5**

### **Pharmacy Management 1 Total Hours: 30**

This course introduces the knowledge and skills required to assist in the management of a pharmacy. The course includes principles of business management, basic accounting skills, inventory management, maintenance of documents and records, equipment maintenance and the use of computers and software to perform administrative functions. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1106 Credits: 7.5**

### **Community Pharmacy Total Hours: 150**

This course introduces students to the pharmacy technician's role in providing pharmacy services in community pharmacy practice. Prescription processing, compounding, third party insurance plans, record keeping, purchasing, receiving and issues pertaining to security are discussed. The lab component of the course focuses on dispensing and compounding skills. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1115 Credits: 3**

### **Pharmacy Practice 1 Total Hours: 90**

This course introduces students to the pharmacy profession and the role of pharmacy in providing health care services. The course also provides an overview of the Canadian health care system, including the roles and responsibilities of health care professionals. The standards of practice, federal and provincial legislation governing pharmacy practice, and workplace safety issues are also discussed. The course also includes medical terminology, anatomy and physiology. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1125 Credits: 2**

### **Pharmacy Products 1 Total Hours: 60**

This course introduces the study of pharmacology and therapeutics. General concepts of how drugs affect the body, routes of drug administration and dosage forms are discussed. Drugs affecting the nervous, musculo-skeletal, respiratory and cardiovascular system are studied. Prescription, non-prescription and alternative therapies are included. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1135 Credits: 1**

### **Pharmacy Calculations 1 Total Hours: 30**

This course emphasizes the calculations required to accurately fill prescriptions and prepare pharmaceutical products in a community pharmacy. Systems of measure, conversions between systems, drug strengths, quantities and volumes required to fill prescriptions, prepare stock solutions and compound extemporaneous products are included. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1145 Credits: 1**

### **Pharmacy Communications 1 Total Hours: 30**

This course introduces the interpersonal and communication skills required to work effectively in a pharmacy setting. Collaboration, effective group dynamics, professionalism, ethics and customer service are discussed. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1155 Credits: 3**

### **Community Pharmacy Total Hours: 90**

This course introduces students to community pharmacy practice and the pharmacy technician's role in providing pharmacy services. Prescription processing, compounding, third party insurance plans, record keeping, purchasing, receiving and issues pertaining to security are discussed. The lab component of the course focuses on dispensing and compounding skills. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1185 Credits: 1**

### **Pharmacy Management 1 Total Hours: 30**

This course introduces the knowledge and skills required to assist in the management of a pharmacy. The course includes principles of business management, basic accounting skills, inventory management, maintenance of documents and records, equipment maintenance and the use of computers to perform administrative functions. This course is part of the full-time Pharmacy Technician Program.

## **PHAR 1201 Credits: 2**

### **Professional Practice 2 Total Hours: 45**

This course continues the study of the profession of pharmacy. Issues pertaining to patient safety and standards of practice are emphasized. Emerging trends and issues affecting pharmacy practice are discussed. The course also includes medical terminology, anatomy and physiology. This course is part of the full-time Pharmacy Technician Program.

**Pre-requisite(s):** PHAR 1101

**PHAR 1202 Credits: 3****Pharmacology & Therapeutics 2 Total Hours: 60**

This course continues the study of pharmacology and therapeutics. Drugs affecting the gastrointestinal, endocrine, urinary, eye/ear, skin, reproductive and immune systems are discussed. Prescription, non-prescription, alternative and complementary therapies are included. Home health care products, nutrition and healthy eating are also discussed. This course is part of the full-time Pharmacy Technician Program.

**Pre-requisite(s):** PHAR 1102

**PHAR 1203 Credits: 1****Pharmacy Calculations 2 Total Hours: 15**

This course emphasizes calculations required to accurately fill prescriptions and prepare pharmaceutical products in a hospital setting. Alligation, volume of displacement, flow rates, infusion time and parenteral nutrition are included. Calculations using nomograms and pertaining to pediatric and chemotherapy dosing are included. This course is part of the full-time Pharmacy Technician Program.

**Pre-requisite(s):** PHAR 1103

**PHAR 1204 Credits: 1.5****Pharmacy Communications 2 Total Hours: 30**

This course continues the study of interpersonal and communication skills required to work effectively in a pharmacy setting. Conflict resolution, problem solving and issues pertaining to harassment and discrimination are discussed. Other topics include medication history and reconciliation, employment preparation and professional development. This course is part of the full-time Pharmacy Technician Program.

**Pre-requisite(s):** PHAR 1104

**PHAR 1205 Credits: 1.5****Pharmacy Management 2 Total Hours: 30**

This course is a continuation of the knowledge and skills required to assist in the management of a pharmacy. Topics include leadership, personnel management, work schedules, workflow, emergency preparedness and drug shortages. This course is part of the full-time Pharmacy Technician Program.

**Pre-requisite(s):** PHAR 1105

**PHAR 1206 Credits: 7****Hospital Pharmacy Total Hours: 150**

This course deals with the practice of pharmacy in an institutional setting. Distribution systems and the delivery of healthcare services in hospitals are covered along with record keeping, equipment and quality assurance. Students will have an opportunity to practise dispensing and compounding during the lab portion of the course. This course is part of the full-time Pharmacy Technician Program.

**Pre-requisite(s):** PHAR 1106

**PHAR 1207 Credits: 3****Sterile Products Total Hours: 60**

This course focuses on the theory and principles of preparing sterile products. Topics include septic principles, clean room concepts, aseptic technique, Central Intravenous Admixture (CIVA) programs and quality assurance programs. During the lab portion of the course, students develop the skills required to prepare sterile products, including hazardous drugs such as chemotherapy. This course is part of the full-time Pharmacy Technician Program.

**PHAR 1208 Credits: 1.5****Practicum Preparation Total Hours: 30**

This course prepares students for practicums and builds on the skills in the pre-requisite courses to ensure that students have achieved the required competencies to safely practice pharmacy in a real-world setting. This course is part of the full-time Pharmacy Technician Program.

**Pre-requisite(s):** PHAR 1106, PHAR 1206, PHAR 1207

**PHAR 1215 Credits: 1.5****Pharmacy Practice 2 Total Hours: 45**

This course continues the study of the profession of pharmacy. Issues pertaining to patient safety and standards of practice are emphasized. Emerging trends and issues affecting pharmacy practice are discussed. The course also includes medical terminology, anatomy and physiology. This course is part of the full-time Pharmacy Technician Program.

**PHAR 1225 Credits: 2****Pharmacy Products 2 Total Hours: 60**

This course continues the study of pharmacology and therapeutics. Drugs affecting the gastro-intestinal, genito-urinary and integumentary and immune systems are discussed. Prescription, non-prescription and alternative therapies are included. Home health care products and nutrition is also discussed. This course is part of the full-time Pharmacy Technician Program.

**PHAR 1235 Credits: .5****Pharmacy Calculations 2 Total Hours: 15**

This course emphasizes the calculations required to accurately fill prescriptions and prepare pharmaceutical products in a hospital setting. Alligation, volumes of displacement, flow rates and infusion times are discussed. Calculations pertaining to pediatric and chemotherapy dosing are included. This course is part of the full-time Pharmacy Technician Program.

**PHAR 1245 Credits: 1****Pharmacy Communications 2 Total Hours: 30**

This course continues the study of interpersonal and communication skills required to work effectively in a pharmacy setting. Conflict resolution, problem solving and issues pertaining to harassment and discrimination are discussed. Other topics include medication histories, employment preparation strategies and on-going professional development. This course is part of the full-time Pharmacy Technician Program.

**PHAR 1255 Credits: 3****Hospital Pharmacy Total Hours: 90**

This course introduces students to hospital pharmacy practice and the pharmacy technicians role in providing pharmacy services. Topics include policies and procedures, drug distribution systems, record keeping, compounding, purchasing and receiving. The lab component of the course focuses on dispensing and compounding skills. This course is part of the full-time Pharmacy Technician Program.

**PHAR 1275 Credits: 2.5****Sterile Products Total Hours: 75**

This course focuses on the theory and principles of preparing sterile products. Topics included septic principles, clean room concepts, aseptic technique, Central Intravenous Admixture programs and quality assurance programs. During the lab portion of the course, students develop the skills required to prepare sterile products, including hazardous drugs such as chemotherapy. This course is part of the full-time Pharmacy Technician Program.

**PHAR 1285 Credits: .5****Pharmacy Management 2 Total Hours: 15**

This course is a continuation of the knowledge and skills required to assist in the management of a pharmacy. Topics include leadership, supervisory skills, time management, stress management, in-service education, emergency preparedness planning and quality assurance programs. This course is part of the full-time Pharmacy Technician Program.

**PHAR 1309 Credits: 13****Practicum Total Hours: 390**

This course provides students with an opportunity to further develop their pharmacy technician skills in a community and hospital pharmacy. Students will apply the skills and knowledge learned in the classroom and lab in the workplace. This course is part of the full-time Pharmacy Technician Program.

**Pre-requisite(s):** PHAR 1208

**PHAR 1395 Credits: 10****Practicum Total Hours: 300**

This course provides students with an opportunity to further develop their pharmacy technician skills in a community and hospital pharmacy. Students will apply the skills and knowledge learned in the classroom and lab, in the workplace. This course is part of the full-time Pharmacy Technician Program.

**PHAR 1397 Credits: 13****Practicum Total Hours: 390**

This course provides students with an opportunity to further develop their pharmacy technician skills in a community and hospital pharmacy. Students will apply the skills and knowledge learned in the classroom and lab, in the workplace.