EXTERNAL COURSES - SENeca (XSEN)

XSEN*3030  Pharmaceutical Analysis - Advanced Winter Only (LEC: 2, LAB: 3) [0.50]
This subject is an introduction to the general aspects of pharmacology and toxicology. The lecture topics will cover the pharmacological activity of drugs on the autonomic nervous system, central nervous system and the cardiovascular system. The laboratory practicals will focus on testing, drug screening, and clinical trial methodology. This course is taught at Seneca College.
Prerequisite(s): BI0C*2580, CHEM*2400
Restriction(s): Restricted to BSCH.BPCH and BSCH.BPCH:C
Department(s): Department of Chemistry
Location(s): Seneca College

XSEN*3040  Pharmaceutical Product Formulations Winter Only (LEC: 2, LAB: 3) [0.50]
This subject deals with the theoretical and practical aspects of pharmaceutical product formulation with an emphasis on semi-solid and liquid formulations. The students prepare and test ointments, creams, lotions, and syrups in the laboratory. Formulation as it relates to overall product stability and efficacy is also covered in both theoretical and practical terms. This course is taught at Seneca College.
Prerequisite(s): CHEM*3750
Restriction(s): XSEN*4030. Restricted to BSCH.BPCH and BSCH.BPCH:C
Department(s): Department of Chemistry
Location(s): Seneca College

XSEN*3060  Pharmacology and Applied Toxicology Winter Only (LEC: 3, LAB: 3) [0.50]
This subject is an introduction to the general aspects of pharmacology and toxicology. The lecture topics will cover the pharmacological activity of drugs on the autonomic nervous system, central nervous system and the cardiovascular system. The laboratory practicals will focus on testing, drug screening, and clinical trial methodology. This course is taught at Seneca College.
Prerequisite(s): BI0C*2580, CHEM*2400
Restriction(s): Restricted to BSCH.BPCH and BSCH.BPCH:C
Department(s): Department of Chemistry
Location(s): Seneca College

XSEN*3070  Pharmaceutical Product Formulations Winter Only (LEC: 2, LAB: 3) [0.50]
This subject deals with the theoretical and practical aspects of pharmaceutical product formulation with an emphasis on semi-solid and liquid formulations. The students prepare and test ointments, creams, lotions, and syrups in the laboratory. Formulation as it relates to overall product stability and efficacy is also covered in both theoretical and practical terms. This course is taught at Seneca College.
Prerequisite(s): CHEM*3750
Restriction(s): XSEN*4030. Restricted to BSCH.BPCH and BSCH.BPCH:C
Department(s): Department of Chemistry
Location(s): Seneca College

XSEN*3070  Pharmacology and Applied Toxicology Winter Only (LEC: 3, LAB: 3) [0.50]
This subject is an introduction to the general aspects of pharmacology and toxicology. The lecture topics will cover the pharmacological activity of drugs on the autonomic nervous system, central nervous system and the cardiovascular system. The laboratory practicals will focus on testing, drug screening, and clinical trial methodology. This course is taught at Seneca College.
Prerequisite(s): BI0C*2580, CHEM*2400
Restriction(s): Restricted to BSCH.BPCH and BSCH.BPCH:C
Department(s): Department of Chemistry
Location(s): Seneca College

XSEN*3090  Biopharmaceuticals Winter Only (LEC: 3) [0.50]
This subject introduces the student to the rapidly developing field of biotechnology and biopharmaceuticals. Techniques used in the development of biopharmaceuticals will be emphasized as well as large-scale production of biologicals manufactured by genetic engineering processes. This course is taught at Seneca College.
Prerequisite(s): BI0C*2580, CHEM*2700
Restriction(s): XSEN*4050. Restricted to BSCH.BPCH and BSCH.BPCH:C
Department(s): Department of Chemistry
Location(s): Seneca College

XSEN*3100  Biopharmaceuticals Winter Only (LEC: 2, LAB: 3) [0.50]
The determination of the structure of organic compounds using spectroscopic methods such as N.M.R. and mass spectroscopy are discussed. Correlation of structure and reactivity (i.e. drug activity) of organic compounds is also explored. A multi-step synthesis of an anesthetic (lidocaine) and mass-spectrometric analysis of an unknown organic compound (or mixture) are examples of lab-projects. This course is taught at Seneca College.
Prerequisite(s): CHEM*3750
Restriction(s): XSEN*4020. Restricted to BSCH.BPCH and BSCH.BPCH:C
Department(s): Department of Chemistry
Location(s): Seneca College

XSEN*3120  Introduction to Pharmaceutical Manufacturing Winter Only (LEC: 2, LAB: 3) [0.50]
This laboratory oriented course is intended to introduce students to the world of pharmaceutical analysis and manufacturing. Certain select physical and chemical techniques used in the control of raw materials and finished dosage forms are emphasized. Topics will include the methods and equipment required to produce solid dosages.
Prerequisite(s): CHEM*2700
Restriction(s): Restricted to BSCH.BPCH and BSCH.BPCH:C
Department(s): Department of Chemistry
Location(s): Seneca College