UBC Vancouver Summer Program July 14 - August 14, 2018



The Vancouver Summer Program (VSP) is a four-week academic program in Canada offered by various faculties at the University of British Columbia for cohorts of students from cooperating universities. The program includes two courses, accommodation and socio-cultural activities. Choose from one of the following two- course packages:

Applied Science - Chemical Engineering

Package A - Introduction to Chemical and **Biological Engineering**

Harnessing Chemistry: An Introduction to Matter, Energy, and Chemical Engineering Harnessing Nature: An Introduction to Biological Engineering

Package B - Engineer, Brew, Drink Early Morning Engineering: The Science and Engineering of Coffee Production Late Night Engineering: The Science and Engineering of Beer and Wine Production

Applied Science – Civil Engineering

Package A - Structural Materials Structural Materials Laboratory Testing of Structural Materials

Package B - Advanced Concrete Structures Advanced topics in Concrete Technology **Experimental Studies of Structural Concrete** Elements

Applied Science - Electrical and Computer Engineering

Package A - Introduction to Electrical and **Computer Engineering**

Introduction to Digital Technology and Smart Devices

Introduction to Electric Circuits, Sensors, and Power

Package B - Renewable Energy and Power Conversion Introduction to Renewable Energy

Electricity and Conversion for Renewable Power

Package C - Communication and Digital Systems

Communication Systems: Technology Embedded in Daily Life Introduction to Digital Systems Design with **FPGAs**

Package D - Engineering the Sound of Music

Music: An introduction to Electrical & Computer Engineering Music Laboratory: Hands on Learning

Package E - Principles of the Modern Internet

Algorithms and the World Wide Web Building Modern Web Applications

Architecture and Landscape Architecture

Package A - Wood + Architecture Wood - Building by Nature Designing with Wood

Package B - Urban Landscape Architecture

Package C - The English Language in a **Globalized World**

The History and Future of the English Language How Human Language Works

Package D - International Finance, Trade and Politics International Trade and Financial Markets

Dynamics of Democracy and Global Uprisings

Package E - Environmental Economics and **Geographies of the Global Economy** Geographies of the Global Economy Environmental Economics

Package F - Living on the Net: exploring information worlds and designing digital spaces

Networks, Crowds and Communities Digital Information Interaction and Design

Package G - Computational Linguistics: From Search Engines to Social Media Linguistics for Natural Language Processing Computation for Natural Language Processing

Package H - From Stage To Screen: how Vancouver 'plays' to a Global Audience From Drama to Theatre: How Does a Play Mean? Documentary & the City

Business

Package A - International Business Management and International Marketing International Business Management International Marketing

Package B - Introduction to Marketing and Management and Organizational Behaviour Introduction to Marketing Management and Organizational Behaviour

Package C - Strategic Management and New Enterprise Development Strategic Management New Enterprise Development

Package D - Operations and Supply Chain **Strategy and Business Analytics Operations and Supply Chain Strategy Business Analytics**

Community and Regional Planning Package A - Big Data and New **Technologies in Cities**

Urban Big Data Analysis Spatial Analysis Using Geographic Information Systems

Package B - Building Resilient Cities Greening the City: Vancouver as a Case Citizen Engagement for Behavior Change

Dentistry Dental Caries and Oral Cancer

Package C - Classroom Management and **Behavioural Assessment**

Classroom Management Assessment and Positive Behavioural Support in School and Community Settings

Package D - Food and Wellbeing - Learning the Connection *Eating food - an everyday experience* Thoughtful eating in a Globalized World

Package E - Culture, Creativity, and **Learning Technologies** Digital Media in Arts Education

Learning Technologies and Creativity in the Digital Age

Forestry

Package A - Forest Management and the **Effects of Carbon** An Introduction to the Ecology, Economics and Politics of Carbon Sustainable Forest Management

Package B - Urban Forestry An Introduction to Urban Forestry Urban Green Spaces and Well-being

Kinesiology

Package A - Sport and Exercise Performance Sport and Exercise Psychology Clinical Exercise Physiology

Package B - Coaching Science Foundations of Coaching Sport Psychology for Coaching

Package C - Clinical Kinesiology Clinical Exercise Physiology Health and Physical Activity Behaviour

Land and Food Systems

Package A - Food Science and Sensory **Evaluation** Introduction to Food Science The Science of Sensory Evaluation

Package B - Agribusiness Management Food and Agribusiness Enterprise Management Food and Agribusiness Marketing Management

Package C - Nutrition and Healthy Eating Essentials of Nutrition Healthy Cooking and Eating in Canada's Multicultural Context

Medicine Package A - Clinical Research and Clinical

Medicine Introduction to Clinical Research in the Sciences Introduction to Clinical Medicine at the Bedside

Package B - Pharmacology and Critical **Analysis in Medicine and Science** Pharmacology through Case Studies

Package D - Biochemistry and Molecular Biology in Human Health, Disease, and the **Environment**

Molecular Mechanisms of Disease Biochemistry and Society: Current Issues (Biochemistry and Molecular Biology)

Package E - The Science and Treatment of **Psychiatric Disorders** The Science behind the Mind Psychiatric Disorders and their Pharmacological Treatments

Package F - Major Mental Illnesses and **Psychotherapy** Mood Disorders and Psychosis Introduction to Psychotherapy

Package G - Introduction to Population and **Public Health**

Social Determinants of Health Introduction to Population and Public Health Practice

Package H - Understanding the Recovery and Treatment from Injury and Chronic Disease Exercise is Medicine Recovery from Injury

Package I - Medical Laboratory Science Introduction to Medical Laboratory Science Fundamental Techniques for Clinical and Medical Research Laboratories

Package J - Anatomical Sciences Principles of Body Structure and Function Applied Neuroanatomy

Nursing

Health Research Methods Introduction to Research Methods in the Health Sciences Introduction to Visual Methods in Health Research

Pharmaceutical Sciences

Package A - Making Better Medicines The Discovery of New Medicines Personalizing Medicines with Genomics and Biotechnology

Package B - Applied Clinical Pharmacy Adverse Drug Related Events and Drug Interactions Principles of Medication Safety

Science - Earth Ocean and Atmospheric Sciences Package A - The Dynamic Earth and its **Beautiful Treasures** The Dynamic Planet Earth Treasures

Package B - The Earth's Oceans, Atmosphere and Climat

Design in the Public Realm Green System Planning

Package C - Urban Design

Sustainability by Design Perspectives on City Making

Arts

Package A - Global Migration, Local **Communities: Asian Canadian Histories** Is Asia in Vancouver: Academic Perspectives Is Asia in Vancouver: Community-Based Research

Package B - Global Journalism, Culture and **Communications: Practice and Principles**

Culture and Communication

-Global Journalism For further details and the most current course package information, please visit our website <u>vancouversummerprogram.ubc.ca</u> or contact:

Asia:

Ms. Winty Cheung

Executive Director UBC Asia Pacific Regional Office, Hong Kong winty.cheung@apro.ubc.ca 852.2111.4401

Oral Cancer: Why Haven't the Clinical Outcomes Improved? Dental Caries: The Most Common Infectious Disease in Humans

Education

Package A - Teaching and Learning English Applied Linguistics for Teachers Introduction to Teaching and Learning English

Package B - Early Childhood Education and Development Designing High Quality Programs in Early Childhood Settings

Creating Environments to Support Learning in Early Childhood Settings

Primary Literature Analysis in Science and Medicine

Package C - Anatomy and **Radiology: Interactive Learning to Enhance** Understanding

Introduction to Medical Imaging: Understanding Radiologic Normal Anatomy and Disease using Cutting-Edge Technology Introduction to Anatomy using a Hands-on Approach

Ocean and Atmosphere Systems Marine Biodiversity

Science - Integrated Sciences Package A - Game Theory and Symmetry Game Theory Symmetry

Package B - Science and Medicine **Evolutionary Medicine** Scale and Measurement in Science and Medicine

South Asia and the Middle East: **Mr. Stephen Kumar** Executive Associate UBC India Liaison Office, New Delhi stephen.kumar@ubc.ca 91.11.4606.1905

All other inquiries: Ms. Marg Toronchuk

VSP Program Coordinator University of British Columbia, Vancouver marg.toronchuk@ubc.ca 1.604.822.0158

