Choose from one of the following two-course packages:

**Applied Science - Chemical and Biological Engineering**
- Package A - Introduction to Chemical and Biological Engineering (CHBE A JULY)
- Harnessing Chemistry: An Introduction to Matter, Energy, and Chemical Engineering
- Harnessing Nature: An Introduction to Biological Engineering
- Package B - The Engineering of Beverages (CHBE B JULY)
  - The Science and Engineering of Coffee Production
  - The Science and Engineering of Beer and Wine Production
- Package C - Computer Aided Design (CHBE C JULY)
  - Introduction to Numerical Methods and Computer-Aided Problem-Solving
  - Introduction to Process Simulation and Design Tools

**Applied Science - Civil Engineering**
- Package A - Computer Software Applications in Civil Engineering (CIVL A JULY)
  - Computer Application in Civil Engineering
  - Laboratory Projects in Computer Modeling and Analytics
- Package B - Structural Materials in Civil Engineering (CIVL B JULY)
  - Civil Engineering Materials
  - Laboratory Testing of Structural Materials
- Package C - Advanced Topics in Concrete Technology (CIVL C JULY)
  - Concrete Technology
  - Experimental Studies of Structural Concrete Elements

**Applied Science - Electrical and Computer Engineering**
- Package A - Introduction to Electrical and Computer Engineering (ELEC A JULY)
  - Introduction to Digital Technology and Smart Devices
  - Introduction to Electric Circuits, Sensors, and Power
- Package B - Renewable Energy and Power Conversion (ELEC B JULY)
  - Introduction to Renewable Energy
  - Electricity and Conversion for Renewable Power
- Package C - Communication and Digital Systems (ELEC C JULY)
  - Communication Systems: Technology Embedded in Daily Life
  - Introduction to Digital Systems Design with FPGAs
- Package D - Engineering the Sound of Music (ELEC D JULY)
  - Music: An Introduction to Electrical & Computer Engineering
  - Music Laboratory: Hands on Learning
- Package E - Principles of the Modern Internet (ELEC E JULY)
  - Algorithms and the World Wide Web
  - Building Modern Web Applications

**Applied Science - Mechanical Engineering**
- Package A - Green Buildings and Engineering Design (MECH A JULY)
  - Green Building Design
  - Introduction to Engineering Design & Decision-making
- Package B - Robotics and Challenges from Computational Intelligence (MECH B JULY)
  - Introduction to Robotics
  - Roboethics: Challenges from Computational Intelligence

**Architecture and Landscape Architecture**
- Package A - Wood + Architecture (ARCH A JULY)
  - Wood - Building by Nature (Forestry)
  - Designing with Wood (Architecture)
- Package B - Urban Landscape Architecture (ARCH B JULY)
  - Green System Planning
  - Design in the Public Realm
- Package C - Urban Design (ARCH C JULY)
  - Perspectives on City Making
  - Sustainability by Design

**Arts**
- Package A - Global Migration, Local Communities: Asian Canadian Histories (ARTS A JULY)
  - Is Asia in Vancouver: Academic Perspectives
  - Is Asia in Vancouver: Community-Based Research
- Package B - Global Journalism, Culture and Communications: Practice and Principles (ARTS B JULY)
  - Culture and Communications
  - Global Journalism
- Package C - The English Language in a Globalized World (ARTS C JULY)
  - The History and Future of the English Language
  - How Human Language Works
- Package D - International Finance, Trade and Politics (ARTS D JULY)
  - International Trade and Financial Markets
  - Dynamics of Democracy and Global Uprisings

**Business**
- Package A - International Business Management and International Marketing (BUS A JULY)
  - International Business Management
  - International Marketing
- Package B - Introduction to Marketing & Management and Organizational Behaviour (BUS B JULY)
  - Introduction to Marketing
  - Management and Organizational Behaviour
- Package C - Strategic Management & New Enterprise Development (BUS C JULY)
  - Strategic Management
  - New Enterprise Development
- Package D - Operations and Supply Chain Strategy & Business Analytics (BUS D JULY)
  - Operations and Supply Chain Strategy
  - Business Analytics

**Community and Regional Planning**
- Package A - Big Data and New Technologies in Cities (PLAN A JULY)
  - Urban Big Data Analysis
  - Spatial Analysis Using Geographic Information Systems
- Package B - The Evolution of Cities: Past, Present, and Future (PLAN B JULY)
  - City-X: Urban Transformation in a Globalized World
  - Past, Present, and Future: Building from Vancouver’s Multicultural Planning History
UBC Vancouver Summer Program
July 13 - August 13, 2019

For further details and the most current course package information, visit vancouversummerprogram.ubc.ca or contact:

- Package C - Multiculturalism and the City (PLAN C JULY)
  - Family Recipes and their Business Potential: Designing a Tourism Guide to Family Food Businesses in Vancouver
  - Past, Present, and Future: Building from Vancouver’s Multicultural Planning History

- Dentistry
  - Package A - Implications of Dental Caries and Oral Cancer (DEN A JULY)
  - Dental Caries
  - Oral Cancer

- Education
  - Package A - Teaching and Learning English (EDU A JULY)
    - Applied Linguistics for Teachers
    - Introduction to Teaching and Learning English
  - Package B - Early Childhood Education and Development (EDU B JULY)
    - Designing High Quality Programs in Early Childhood Settings
    - Creating Environments to Support Learning in Early Childhood Settings
  - Package C - Classroom Management and Behavioural Assessment (EDU C JULY)
    - Classroom Management
    - Assessment and Positive Behavioural Support in School and Community Settings
  - Package D - Food and Well-being - Learning the Connection (EDU D JULY)
    - Eating Food - An Everyday Experience
    - Thoughtful Eating in a Globalized World
  - Package E - Culture, Creativity, and Learning Technologies (EDU E JULY)
    - Digital Media in Arts Education
  - Package F - Healthy Cooking and Eating (LFS C JULY)
    - Food and Agribusiness Enterprise Management
    - Food and Agribusiness Marketing Management

- Medicine
  - Package A - Clinical Research and Clinical Medicine (MED A JULY)
    - Introduction to Clinical Research in the Sciences
    - Introduction to Clinical Medicine at the Bedside
  - Package B - Pharmacology and Critical Analysis of Literature (MED B JULY)
    - Pharmacology through Case Studies
  - Package C - Anatomy and Radiology: Interactive Learning to Enhance Understanding (MED C JULY)
    - Introduction to Anatomy Using a Hands-on Approach
  - Package D - Biochemistry and Molecular Biology in Human Health, Disease, and the Environment (MED D JULY)
    - Molecular Mechanisms of Disease
  - Package E - The Science Behind the Mind and Pharmacology in Psychiatry (MED E JULY)
    - The Science Behind the Mind Psychiatric Disorders and their Pharmacological Treatments
  - Package F - Major Mental Illnesses and Psychotherapy (MED F JULY)
    - Mood Disorders and Psychosis
    - Introduction to Psychotherapy
  - Package G - Introduction to Population and Public Health (MED G JULY)
    - Social Determinants of Health
    - Introduction to Population and Public Health Practice
  - Package H - Understanding the Recovery and Treatment from Injury and Chronic Disease (MED H JULY)
    - Exercise is Medicine
    - Recovery from Injury
  - Package I - Medical Laboratory Science (MED I JULY)
    - Introduction to Medical Laboratory Science
    - Fundamental Techniques for Clinical and Medical Research Laboratories
  - Package J - Anatomical Sciences (MED J JULY)
    - Principles of Body Structure and Function
    - Applied Neuroanatomy
  - Package K - Systems Pathophysiology and Principles of Data Science in the Life Sciences (MED K JULY)
    - Data Science Applications in the Medical Sciences
    - Systems Pathophysiology

- Nursing
  - Package A - Seniors Health and Home Care (NURS A JULY)
    - Introduction to Caring for Seniors at Home and in the Community
  - Package B - Health Research Methods (NURS B JULY)
    - Introduction to Research Methods in the Health Sciences
    - Introduction to Visual Methods in Health Research

- Pharmaceutical Sciences
  - Package A - Making Better Medicines (PHAR A JULY)
    - The Discovery of New Medicines
    - Personalizing Medicines with Genomics and Biotechnology

- Science - Chemistry
  - Package A - Chemistry: Global Challenges and the Environment (CHEM A JULY)
    - The Chemical Enterprise and Global Challenges
    - Environmental Chemistry of the Oceans and Atmosphere

- Science - Earth, Ocean and Atmospheric Sciences
  - Package A - The Dynamic Earth and its Beautiful Treasures (EOAS A JULY)
    - The Dynamic Planet
  - Package B - The Earth’s Oceans, Atmosphere and Climate (EOAS B JULY)
    - Ocean and Atmospheric Systems
    - Marine Biodiversity

- Science - Institute for Resources, Environment and Sustainability
  - Package A - Climate Change, Energy and Society (IRES A JULY)
    - Climate Change: Causes, Consequences and Adaptation
    - Energy for Sustainable Development
  - Package B - Sustainable Futures (IRES B JULY)
    - Nature Matters - Ecology, the Environment and You
    - Oceans in the 21st Century

- Science - Integrated Sciences
  - Package A - Game Theory and Symmetry (ISCI A JULY)
    - Game Theory
    - Symmetry
  - Package B - Exploring Vancouver: Systems and Sustainability (ISCI B JULY)
    - The Vancouver Environment
    - The Vancouver Anthroposphere

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