

UNIVERSITY OF BRITISH COLUMBIA VANCOUVER SUMMER PROGRAM (UBC VSP)

July 12 - August 12, 2024



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By offering globally relevant courses and sociocultural activities specific to Vancouver and its surroundings, the VSP encourages undergraduate students to engage in cross-disciplinary learning and develop their understanding of Canadian culture and values.

The total fee of \$5,825 CAD for the Vancouver Summer Program 2024 session in July includes:

- Course materials and tuition for two courses
- Shared accommodation on UBC campus
- Medical insurance
- Transportation by shuttle bus to and from Vancouver Airport (*during scheduled hours*)
- Vancouver city exploration activities
- Orientation and farewell events
- Social activities (*some activities may require extra fees*)

Choose one of the following two-course packages below:

Applied Science - Chemical and Biological Engineering CHBE A JULY - Introduction to Chemical & Biological Engineering

- The Power of Chemistry: an Introduction to Matter, Energy, and Chemical Engineering
- The Power of Biology: an Introduction to Biological Engineering

CHBE B JULY - The Science and Engineering of Beverage Production

- The Science and Engineering of Coffee Production
- The Science and Engineering of Beer and Wine Production

CHBE C JULY - Thinking like an Engineer: An Introduction to Experimental Design, Data Collection, and Analysis

- Introduction to Computer-Assisted Problem-Solving
- Introduction to Experimental Design and Data Analysis

Applied Science - Civil Engineering

CIVL A JULY - Modern Computer Software in Civil Engineering Applications

- Modern Civil Engineering Software
- Practical Projects using Civil Engineering Software

CIVL B JULY - Carbon-neutrality in Smart and Sustainable Infrastructure

- Structural Materials and Concrete Technology
- Laboratory Testing of Structural Materials

CIVL C JULY - Urban Resilience Through Intelligent Structures

- Structural Challenges and Solutions
- Seismic Design and Competition

CIVL D JULY - Leadership and Entrepreneurial Thinking for Engineers

- Entrepreneurial Thinking for Engineers
- Leadership and Engineering

Applied Science - Electrical and Computer Engineering

ELEC C JULY - Green Electric Power Systems

- Renewable Sources of Electricity
- Renewable Integration in Power Systems

ELEC D JULY - Engineering The Sound Of Music

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

ELEC E JULY - Algorithms and the World Wide Web/Building Modern Web Applications

- Algorithms and the World Wide Web
- Building Modern Web Applications

Applied Science - Materials Engineering

MTRL A JULY - New Frontiers in Advanced Materials Manufacturing

- Introduction to Nanofibre Technology
- Introduction to Additive Manufacturing

Applied Science - Mechanical Engineering

MECH A JULY - Concepts in Robotics and Roboethics

- Introduction to Robotics
- Roboethics: Ethical Challenges in Automation and AI

MECH B JULY - Fundamentals of Transportation Design

- Introduction to Fluid Mechanics for Vehicle Applications
- Impact and Policy Challenges for Transportation Systems

Architecture and Landscape Architecture

ARCH A JULY - Approaches to Design

- Design Thinking
- Design Making

ARCH B JULY - Urban Landscape Architecture

- Green System Planning
- Design in the Public Realm

Arts

ARTS A JULY - From Stage to Screen: How Vancouver "plays" to a Global Audience

- From Drama to Theatre: How Does a Play Mean?
- Documentary & the City

ARTS B JULY - Global Journalism, Culture and Communications: Practices and Principles

- Culture and Communication
- Global Journalism

ARTS C JULY - International Finance, Trade and Politics

- International Trade and Financial Markets
- Dynamics of Democracy and Global Uprisings

ARTS D JULY - Big Data and Society

- The Ethics of Big Data
- Working with Big Data

ARTS E JULY - Environmental Economics and Geographies of the Global Economy

- Environmental Economics
- Geographies of the Global Economy

ARTS F JULY - Conspiracy, Fascism, and Belief

- Fascism and Propaganda
- Misinformation and Conspiracy Theories





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ARTS G JULY - Global Migration, Local Communities: Encountering Asia in Vancouver

- Asian Canadian Experiences in Metro Vancouver
- Metro Vancouver as Asian Canadian History

ARTS H JULY - The English Language in a Globalized World

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

ARTS I JULY - Understanding the Challenges of Diverse Populations in Unequal Societies: Theories, Policies and Practice

- Inequality and Diversity in Modern Societies
- Practice with Marginalized Diverse Populations

ARTS J JULY - Politics, Climate and (Mis)Information

- The Politics of Climate Change
- Climate, Technology, and Fake News

ARTS K JULY - Creativity from Margin to Centre in the 21st Century

- Writing and Creativity for Social Justice
- Writing for Video Games

Business

BUS A JULY - International Business Management and International Marketing

- International Business Management
- International Marketing

BUS B JULY - Strategic Management and New Enterprise Development

- Strategic Management
- New Enterprise Development

BUS C JULY - Introduction to Marketing & Management and Organizational Behaviour

- Introduction to Marketing
- Management and Organizational Behaviour

BUS D JULY - Operations and Supply Chain Strategy & Business Analytics

- Operations and Supply Chain Strategy
- Business Analytics

Dentistry

DENT A JULY - Implications of Dental Caries and Oral Cancer

- Dental Caries and Restoration
- Oral Cancer

Education

EDU A JULY - Teaching and Learning English

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

EDU B JULY - Early Childhood Education and Development

- Designing High Quality Programs in Early Childhood Settings
- Creating Environments to Support Learning in Early Childhood Settings

EDU C JULY - Classroom Management & Assessment and Positive Behavioural Support

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

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EDU D JULY - Fashion and Design

- Designing What We Wear
- Designing Fashion for Social and Sustainability Impact

EDU E JULY - Culture, Creativity, and Learning Technologies

- Digital Media in Arts Education
- Learning Technologies and Creativity in the Digital Age

EDU F JULY - School, Family, and Community Supports for Student Learning and Wellness

- Understanding the Social-Emotional Learning Needs of Diverse Learners in School, Family, and Community Contexts
- Culturally Responsive Approaches to Creating Positive Learning Environments to Support Social-Emotional Health/Wellness

EDU G JULY - Educational Learning Technologies and Best-Practice Pedagogies

- Diversifying Integrated Artificial Intelligence and Learning Technologies and Systems
- Learning Technologies through Design-based Thinking: Creating Inclusive Makerspaces

Kinesiology

KIN A JULY - Human Movement and Health

- Sport & Exercise Psychology
- Exercise & Health Physiology

Land and Food Systems

LFS A JULY - Nutrition and Healthy Eating

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

LFS C JULY - Food Science and Sensory Evaluation

- Introduction to Food Science
- The Science of Sensory Evaluation

Medicine

MED A JULY - Introduction to Clinical Medicine and Scientific Research in the Hospital Setting

- Introduction to Scientific Research in the Hospital Setting
- Introduction to Clinical Medicine in the Hospital Setting

MED B JULY - Pharmacology and Literature Analysis in Science and Medicine

- Pharmacology Through Case Studies
- Primary Literature Analysis in Science and Medicine

MED C JULY - Anatomy and Radiology: Interactive Learning to Enhance Understanding

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

MED E JULY - Psychiatry: The Science and Pharmacology of the Mind

- Psychiatric Disorders and their Pharmacological Treatments
- The Science Behind the Mind





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MED F JULY - Major Mental Illnesses and Psychotherapy

- Mood Disorders and Psychosis
- Introduction to Psychotherapy

MED G JULY - Introduction to Population and Public Health

- Social Determinants of Health
- Introduction to Population and Public Health Practice

MED H JULY - Understanding the Treatment and Recovery from Injury and Chronic Disease

- Exercise is Medicine
- Recovery from Injury and Disease

MED I JULY - Medical Laboratory Science

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

MED J JULY - Anatomical Sciences

- Principles of Body Structure and Function
- Introduction to Clinical Neuroanatomy

MED L JULY - Biological and Clinical Aspects of Aging

- Biological Aspects of Aging
- Clinical Aspects of Aging

MED O JULY - From Conception to Life Saving Surgery Across the Life Span

- Introduction to Women's Health - Normal Physiology and Clinical Challenges
- The Specialty of Obstetrics and Gynecology - From the Bench to the Bedside

MED Q JULY - Advanced Injury Biomechanics: From Mechanisms, Simulations to Clinical Application

- Translating Engineering into Clinical Insights: Musculoskeletal Injuries and Traumas
- Clinical Advancements through Collaborative Innovation

Nursing

NURS A JULY - Seniors Health and Home Care

- Introduction to Seniors' Health
- Introduction to Caring for Seniors at Home and in the Community

NURS B JULY - Interdisciplinary Global Health Leadership

- Global Health Leadership
- Health Impact and Climate Change

NURS C JULY - Mental Health & Wellness

- Introduction to Mental Health
- Strategies to Manage Stress in Everyday Life

Science - Chemistry

CHEM A JULY - Global Challenges & Introduction to Organic Chemistry

- Tackling Global Challenges with Modern Chemistry
- Organic Chemistry - A Soft Introduction

Science - Earth, Ocean, and Atmospheric Sciences

EOAS A JULY - Earth's Treasures and Perils: Minerals and Natural Disasters

- Disaster Resilience: Learning from Natural Hazards
- Treasures of the Earth: Exploring Precious Minerals

EOAS B JULY - Blue Planet: Earth's Ocean, Atmosphere, Climate, and Marine Biodiversity

- From Sea to Sky: Understanding Ocean, Atmosphere, and Climate systems
- Seas of Life: Discovering Marine Biodiversity

Science - Institute for Resources, Environment, and Sustainability

IRES A JULY - Food for a Healthy and Sustainable Planet

- Sustainable Food and Farming Systems
- Sustainable Diets and Nutrition

IRES B JULY - Climate Change, Energy and Society

- Climate Change: Causes, Consequences and Adaptation
- Energy for Sustainable Development

Science - Institute for the Oceans and Fisheries

IOF A JULY - Ocean Leader

- Grand Challenges Facing the Ocean
- How to be an Ocean Leader

Science - Integrated Sciences

ISCI A JULY - Scaling the Universe: Size and Symmetry in Science

- Symmetry
- The Size of Things

Science - Statistics and Data Science

STAT A JULY - Data Science Essentials: Statistics, Tools and Techniques

- Statistical Literacy and Reasoning in Data Science
- Data Science Tools and Advanced Modeling Techniques

Updated: February 27, 2024

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

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