

## University of Northern British Columbia Dual Credit Initiative

### September 2021 Semester Course Choices

*The following list is a summary of courses available for registration by UNBC Dual Credit students. All students are encouraged to access the UNBC Undergraduate Academic Calendar prior to registration to ensure they have met required prerequisites and are aware of course preclusions and other necessary course information. UNBC Student Advisors are available to help you. The September semester begins September 8 and ends December 17. The deadline to add or drop a course is September 22, and the deadline to withdraw is October 29.*

UNBC Course Schedule: <http://www.unbc.ca/current-students>

UNBC Course Descriptions: <https://www2.unbc.ca/calendar/undergraduate/course-descriptions>

#### **ANTH 102-3 A World of Discovery**

Using a thematic approach, this course explores what defines the human species. Some of the themes explored may include human evolution and our primate biological kin; archaeology and digging for the past; culture in a global world; communication or the essentials of being a talking and increasingly texting primate; health as social and biological; production and consumption, from the first stone tools to the Big Mac; and other topics that deal with humanity past and contemporary.

*Schedule:* Tuesday & Thursday 11:30am-12:50pm

*Instructor:* TBA

*Location:* 8-164

#### **BIOL 103-3 Introductory Biology I**

This lecture-based course is an introduction to the biological sciences including the nature of life, cell structure, function, development, metabolism, genetics and evolutionary theory.

**Prerequisite:** Biology 11 or Life Sciences 11 or Biology 12 or Anatomy & Physiology 12 (50% min. for any of these courses)

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Monday, Wednesday, Friday 10:30am-11:20am

**OR** Monday, Wednesday, Friday 11:30am-12:20pm

*Instructor:* Michael Preston

*Location:* 7-238

Note: Students may register in the corresponding BIOL 123-1 lab; however, it is not required.

### **BIOL 123-1 Introductory Biology I Laboratory**

This laboratory-based course introduces students to techniques in the biological science, closely following the lecture organization in BIOL 103-3. Students normally take this course concurrently with BIOL 103-3 as the lab component complements the lecture, but should check the relevant program requirements to see if the lab is required. (Note: not all programs require both the lecture and lab components.)

*Schedule:* Numerous 3-Hour Lab Sections Available

*Instructor:* Jenia Blair

*Location:* 8-322

### **CHEM 100-3 General Chemistry I**

The first course in a two-course lecture-based sequence of chemistry courses emphasizing the basic principles of chemistry. Topics include: classification of matter, periodic properties of elements, atomic and molecular structure, stoichiometry, chemical reactions, thermochemistry, chemical bonding and an introduction to organic chemistry. Students requiring the first year laboratory courses in their program of study are encouraged to enrol in CHEM 120-1 concurrently.

**Prerequisite:** MATH 115 Minimum Grade of D- or PreCalculus 12 (50%) or Principles of Math 12 (50%)

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Monday, Wednesday, Friday 10:30 am – 11:20 am

**OR** Monday, Wednesday, Friday 11:30 am – 12:20 am

*Instructor:* Umesh Parshotam

*Location:* 7-238

### **CHEM 110-1 Chemistry of Everyday Life**

A lecture-based chemistry course for non-science majors which presents the chemistry of substances of our everyday world and discusses real-world societal issues that have important chemistry components. Environmentally relevant topics including the ozone layer and its depletion, global warming, and acid rain will be studied. The use of energy in our society in its various forms will be looked at from a chemical perspective. The importance and implications of using man-made materials and drugs will be discussed. A discussion of these topics will give students a fundamental background in chemistry, and allow them to better understand issues of relevance to our modern industrial society.

*Schedule:* Tuesday, Thursday 4:00 pm – 5:20 pm

*Instructor:* Todd Whitcombe

*Location:* 8-164

### **CHEM 120-1 General Chemistry Laboratory I**

A laboratory half-course designed to accompany CHEM 100-3 and introduce basic chemistry laboratory procedures. Experiments will be performed which complement the material presented in CHEM 100-3.

*Schedule:* Numerous 3-Hour Lab Sections Available

*Instructor:* Lab Instructor

*Location:* 8-421

### **COMM 100-3 Introduction to Canadian Business**

This course is an overview of the Canadian business environment, forms of organizations, the management function, and an introduction to the functional areas of business management. The course includes the challenges and opportunities facing small business.

*Schedule:* Monday 6:00pm-8:50pm

*Instructor:* L. Charles Scott

*Location:* 8-166

**OR**

*Schedule:* Monday, Wednesday 4:00pm-5:20pm

*Instructor:* Julius Bankole

*Location:* 5-154

**OR**

*Schedule:* No Set Time

*Instructor:* Julius Bankole

*Location:* Online

### **CPSC 100-4 Computer Programming I**

This course introduces the fundamental concepts of programming from an object-oriented perspective. Topics include fundamentals of programming style, syntax, data types, arithmetic and logical expressions, assignments, control structures, arrays, functions, file i/o, classes, inheritance, and dynamic storage allocation. The course emphasizes the development of problem solving and programming skills, including testing techniques and the use of debugging tools. Students must also register in a lab and a tutorial section.

**Prerequisite:** Principles of Math 12 or Precalculus 12 (50% or Better)

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Monday, Wednesday 4:00pm-5:20pm

*Instructor:* Waqar Haque

*Location:* 8-164

**NOTE:** There is a tutorial requirement (1.5 hour/week) and a lab requirement (1.5 hour/week) for this course. Numerous choices available.

### **CPSC 141-3 Discrete Computation Math I**

This course provides an introduction to set theory, elements of combinatorics and probability theory, logical and formal reasoning using predicate and propositional calculus, together with narrative proof techniques. Other topics include well-ordered sets, recursive definitions and mathematical induction; introductory number theory including the division algorithm, Euclidean algorithm, prime numbers and the fundamental theorem of arithmetic; properties of functions and relations including bijections, projections, inverses, composition, and Cartesian products.

**Prerequisite:** Principles of Math 12 or Precalculus 12 (50% or Better)

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Monday, Wednesday, Friday 11:30am-12:20pm

*Instructor:* Liang Chen

*Location:* 7-150

### **ECON 100-3 Microeconomics**

The interactions of households, firms and government policies. An analysis of how different economic agents interact to determine what is produced, how it is produced and to whom it is distributed.

*Schedule:* Tuesday, Thursday 10:00am-11:20am

*Instructor:* Karima Fredj

*Location:* 8-164

### **ECON 101-3 Macroeconomics**

The determinants of unemployment, inflation and growth focusing on Canada's macroeconomics performance.

*Schedule:* Monday, Wednesday 2:30pm-3:50pm

*Instructor:* Leandro Freylejer

*Location:* 8-164

### **EDUC 101-3 Introduction to Education**

This course is intended to provide students with an understanding of the basic issues facing elementary and secondary teachers in Canadian schools. The topics to be covered include: social, emotional, cognitive and physical development, classroom management, social and economic issues, gender, multiculturalism, teacher characteristics, special needs, and reflective practice. It introduces students to the values, concepts, expectations, and responsibilities of classroom teachers. The course will also acquaint students with the British Columbia Teachers' Federation Guide to Professional Practice.

*Schedule:* Tuesday, Thursday 2:30pm-3:50pm

*Instructor: Fraser Earl*  
*Location: Online*

### **ENGL 100-3 Intro to Literary Structures**

This course provides an introduction to the reading of the three major genres: poetry, fiction, and drama. The course introduces the students to the basic structural principles and rhetorical strategies of literary texts by observing structural and rhetorical theory applied to specific poems, fictions, and plays.

*Schedule: Tuesday, Thursday 8:30am-9:50am*  
*Instructor: Troy Bordun*  
*Location: Online*

### **ENGL 104-3 Introduction to Film**

This course provides an introduction to the study of film through a detailed examination of a range of films.

*Schedule: Monday, Wednesday 11:30am-12:50pm*  
*Instructor: Troy Bordun*  
*Location: Online*

### **ENGL 120-3 Canadian Indigenous Literature**

This course offers an introduction to the study of Canada's Indigenous literatures, including traditional oral narratives, drama, poetry, and fiction.

*Schedule: Monday, Wednesday 8:30am-9:50am*  
*Instructor: Blanca Schorcht*  
*Location: 5-184*

### **ENGL 170-3 Writing and Communication Skills**

Students will be taught how to construct an argument, and how to assemble and present an academic essay. There will be regular practice in writing well. The course includes library research and an oral presentation, and may also include computer skills.

*Schedule: Monday, Wednesday, Friday 10:30am-11:20am*  
*Instructor: Jennifer Bomford*  
*Location: 5-175*

**OR**

*Schedule: Tuesday, Thursday 8:30am-9:50am*  
*Instructor: Abigail Ward*

*Location: Online*

**OR**

*Schedule: Tuesday, Thursday 8:30am-9:50am*

*Instructor: Fatemeh Namaei*

*Location: Online*

### **ENPL 104-3 Introduction to Planning**

This course introduces students to the practice of planning and an overview of the history, techniques and applications in planning. The course emphasizes the role of the public, politicians, and planners in the field of planning.

*Schedule: Friday 8:30am-11:20am*

*Instructor: Theresa Healy*

*Location: 8-127*

### **ENVS 101-3 Introduction to Environmental Citizenship**

This course provides an introduction to the concept of "environmental citizen", and to the foundational elements of environmental studies, including social, ecological, humanistic and indigenous approaches to understanding human interactions with the natural environment. Development of skills in written communications is emphasized.

*Schedule: Tuesday, Thursday 11:30am-12:50pm*

*Instructor: Sinead Earley*

*Location: 5-183*

### **FNST 100-3 The Aboriginal Peoples of Canada**

This course is an introduction to the languages, history, culture and enduring presence of the aboriginal people of Canada, intended to explore the range of aboriginal social formations, both past and present, and to consider the future. Oral, written, and archaeological records will be examined. Special attention will be given to the crucial economic, social, and spiritual contacts that exist within aboriginal societies, as well as to materials on the changes that have occurred since the advent of the Europeans.

*Schedule: Monday, 6:30pm-9:20pm*

**OR** *Tuesday, 11:30am-2:20pm*

*Instructor: Tannis Reynolds*

*Location: 5-158*

**OR**

*Schedule:* Thursday, 2:30pm-5:20pm  
*Instructor:* Tannis Reynolds  
*Location:* Online

### **FNST 133-3 Dakelh/Carrier Language: Level 1**

This course provides an introduction to the conversational and written elements of the Dakelh / Carrier language.

*Schedule:* Monday, Wednesday, Friday 8:30am-9:20am  
*Instructor:* TBA  
*Location:* 5-171

### **GEOG 101-3 Planet Earth**

This course examines pressing global issues such as how 10 billion people will live in a world of finite resources, increasing mobility, and rising inequality. Students learn about core human geography concepts as a means to make sense of humanity's place in the world. This examination includes the multifaceted ways in which human societies inhabit and transform the Earth's natural environments, the interconnectedness of places and different ways in which societies respond to widespread challenges.

*Schedule:* Monday, Wednesday, Friday 5:30pm-6:20pm  
*Instructor:* Neil Hanlon  
*Location:* 8-164

### **HHSC 101-3 Introduction to Health Sciences I: Issues and Controversies**

This course provides a review of current issues and controversies with respect to individual and population health. Topics covered include infectious disease, cancer, genetic disease, behavioural determinants of health, addictive behaviour, eating behaviour and the role of nutrition in chronic disease.

*Schedule:* Monday, Wednesday, Friday 8:30am-9:20am  
*Instructor:* TBA  
*Location:* 8-164

### **HIST 190-3 World History to 1550**

This course explores the history of Asia, Africa, Europe and the Americas from human origins to 1550. Although the course is organized chronologically, it does not cover all or even most aspects of World History during this time period. Rather, it focuses on certain themes to consider the development of various civilizations. At the same time, students work on developing their skills as historians by reading, writing and discussing primary and secondary sources through a number of different historical lenses.

*Schedule:* Monday, Wednesday 12:30pm-1:20pm  
*Instructor:* Dana Wessel Lightfoot  
*Location:* TBA – Hybrid On-Campus/Online

**NOTE:** There is a tutorial requirement for this course (1 hour/week). Numerous choices available.

### **INTS 100-3 Introduction to Global Studies**

This foundation course introduces students to the study of international and global structures, actors, processes, ideas, issues, and events with the aim of understanding and explaining large-scale change in our world. The course is organized around four "great domains" of global studies: environment and sustainability; culture and diversity; politics, security and social justice; and economy and international development.

*Schedule:* Tuesday, Thursday 8:30am-9:20am  
*Instructor:* Heather Smith  
*Location:* Online

**NOTE:** There is a tutorial requirement for this course (1 hour/week). Numerous choices available.

### **INTS 121-3 Beginning Japanese I**

This introductory Japanese language course focuses on the four basic linguistic skills of listening, speaking, reading, and writing. Students learn typical daily vocabulary and are introduced to Japanese culture through the language. Students learn two phonetic alphabets, hiragana and katakana, as well as approximately 60 kanji (Chinese characters). This course is designed for students who have no prior knowledge of the Japanese language. It is not open to native speakers. Permission of the instructor is required for students who have completed Grade 10 Japanese or equivalent courses, or who have at least one Japanese speaking parent.

*Schedule:* Tuesday, Thursday 11:30am-12:50pm  
**OR** Tuesday, Thursday 2:30pm-3:50pm  
*Instructor:* Ami Hagiwara  
*Location:* 5-153

**NOTE:** There is a lab requirement for this course (1 hour/week). Numerous choices available.

### **INTS 171-3 Beginning French I**

This introductory French language course focuses on the four basic linguistic skills of listening, speaking, reading and writing. Practice of good pronunciation is stressed. Students learn typical daily vocabulary and are introduced to French culture through the language. This course is designed for student who have no prior knowledge of the French language. It is not open to native speakers. Permission of instructor is required for students who have completed Grade 10 French or equivalent courses.



*Schedule:* Monday, Wednesday 6:00pm-7:20pm  
*Instructor:* TBA  
*Location:* 5-153

**NOTE:** There is a lab requirement for this course (1 hour/week). Numerous choices available.

### **INTS 181-3 Beginning Spanish I**

This introductory Spanish language course focuses on the four basic linguistic skills of listening, speaking, reading, and writing. Students are also introduced to Spanish culture through the language. This course is designed for students who have no prior knowledge of the Spanish language. It is not open to native speakers. Permission of the instructor is required for students who have prior knowledge of Spanish or who have completed Grade 10 Spanish or equivalent courses.

*Schedule:* Tuesday, Thursday 11:30am-12:50pm  
*Instructor:* TBA  
*Location:* Online

**NOTE:** There is a lab requirement for this course (1 hour/week). Numerous choices available.

### **MATH 100-3 Calculus I**

This course is an introduction to the calculus of one variable, primarily for majors and students in the sciences. Topics include functions of one variable; inverses; limits; continuity; the difference quotient and derivatives; rules for differentiation; differentiability; the mean value theorem; the differential; derivatives of trigonometric, logarithmic and exponential functions; l'Hôpital's rule; higher derivatives; extrema; curve sketching; Newton's method; antiderivatives; definite integrals; the fundamental theorem of calculus; integrals of elementary functions; area between curves; and applications of integration. Students use Maple software in this course.

**Prerequisite:** Principles of Math 12 or PreCalculus 12 (67% or Better)

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Monday, Wednesday, Friday 8:30am-9:20am  
**OR** Monday, Wednesday, Friday 2:30pm-3:20pm  
*Instructor:* TBA, Brian Schaan  
*Location:* 7-212

**NOTE:** There is a lab requirement for this course (1 hour/week). Numerous choices available.

### **MATH 101-3 Calculus II**

This course is a continuation of MATH 100-3. Areas of study include the definition of the natural logarithm as an integral and of the exponential function as its inverse, integration by parts, miscellaneous techniques of integration, improper integrals, volumes by slicing and by shell techniques, the trapezoidal rule and Simpson's rule, infinite sequences and series, Taylor series, masses, volumes, moments, centre of mass, first order linear differential equations, definition of partial derivatives. All sections of this course are taught using Maple software.

**Prerequisite:** MATH 100 or MATH 105 (C- or Better)

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Monday, Wednesday, Friday 9:30am-10:20am

*Instructor:* Alia Hamieh

*Location:* 7-150

**NOTE:** There is a lab requirement for this course (1 hour/week). Numerous choices available.

### **MATH 115-3 Precalculus**

This course examines algebraic manipulation, solutions of algebraic equations, functions, inverses, graphing, and analytic geometry.

**Prerequisite:** PreCalculus 11 (60%) or Foundations of Math 12 (73%) or India Math 10 (70%) or Principles of Math 11 (60%)

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Monday, Wednesday, Friday 12:30pm-1:20pm

*Instructor:* Edward Dobrowolski

*Location:* 7-150

### **MATH 150-3 Finite Mathematics for Business and Economics**

This course is offered primarily for students in the School of Business and the Economics Program. The course covers functions and graphs, linear systems of equations, matrix notation and properties, matrix inversion, linear programming, sets, counting and probability, and an introduction to actuarial mathematics.

**Prerequisite:** Minimum Grade of C- or PreCalculus 12 (60%) or Principles of Math 12 (60%)

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Monday, Wednesday, Friday 1:30pm-2:20pm

*Instructor:* Erin Beveridge

*Location:* 7-150

### **MATH 152-3 Calculus for Non-majors**

Limits, the derivative, techniques of differentiation, exponential functions and exponential growth, maxima and minima, curve sketching, first order linear differential equations, definite and indefinite integrals, partial derivatives, optimization of functions of several variables, Lagrange multipliers, with applications in the social and physical sciences. Applications may vary somewhat from section to section, depending on student's discipline. Not open to mathematics or computer science majors.

**Prerequisite:** Minimum Grade of C- or PreCalculus 12 (60%) or Principles of Math 12 (60%)

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Monday, Wednesday, Friday 8:30am-9:20am

*Instructor:* Brian Schaan

*Location:* 8-166

### **MATH 190-4 Math for Elementary Educators**

This course develops an understanding of mathematical concepts and relationships used in the elementary school curriculum. The content focus is on numbers and number systems, patterns and relationships, shapes and space, and statistics and probability. Problem solving and deductive reasoning are stressed throughout the course. Students who have taken MATH 100, MATH 105, MATH 152 or equivalent require permission of the Chair.

**Prerequisite:** Foundations of Math 11 (60%) or PreCalculus 11 (60%)

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Tuesday, Thursday 4:30pm-5:50pm

*Instructor:* Jean Bowen

*Location:* Online

**NOTE:** There is a lab requirement for this course (1 hour/week) Mondays at 6:30pm.

### **NREM 100-3 Field Skills**

This course introduces contemporary and traditional field skills in the natural resources including field navigation, outdoor survival, plant and tree identification, basic natural resource measurements, use of GPS, and air photo interpretation. Extensive fieldwork is required.

*Schedule:* Tuesday, Thursday 1:30pm-2:20pm

*Instructor:* TBA

*Location:* 8-164

**NOTE:** There is a lab requirement for this course (3 hour/week). Numerous choices available.

### **NREM 110-3 Food, Agriculture and Society**

In this course, students examine a range of choices, values, and uses associated with global and local food systems from social, economic, environmental, health, political and other perspectives. Students gain a broad understanding of how food and agriculture shape society and can contribute to a more sustainable future. Topics include global and local food systems with an emphasis on understanding the nature of current problems and exploring potential solutions.

*Schedule:* Monday 6:30pm-9:20pm

*Instructor:* David Connell

*Location:* 5-122

### **OTRM 100-3 Foundations of Outdoor Recreation and Tourism**

This course introduces the foundations of Recreation and Tourism from the perspective of both the natural and social science. Content includes the history and philosophy of the concept of leisure, the role of leisure, recreation and tourism in students' lives and Western culture, Recreation and Tourism in integrated resource management, and current delivery systems.

*Schedule:* Wednesday, Friday 2:30pm-3:50pm

*Instructor:* Jennifer Wigglesworth

*Location:* 7-158

### **PHYS 100-4 Introduction to Physics I**

This course is the first part of an algebra-based introductory physics course sequence for majors in life and environmental sciences. Topics include physics and measurement, the laws of motion, applications of Newton's second law, work and energy, linear momentum and collisions, static equilibrium, elasticity, law of universal gravitation, laws of thermodynamics, fluid mechanics, and sound waves.

**Prerequisite:** Physics 11 (50% or Better)

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Monday, Wednesday, Friday 9:30am-10:20am

*Instructor:* Meghan (Bridget) Costello

*Location:* 8-164

**NOTE:** There is a lab requirement for this course (3 hour/week). Numerous choices available.

### **PHYS 110-4 Introductory Physics I: Mechanics**

First part of the calculus-based introductory physics course for majors in physical and mathematical sciences. Covers: Vectors, measurement, motion in one and two dimensions, the laws of motion, application of Newton's laws, work and energy, potential energy, conservation of energy, linear momentum and collisions, rotation of

rigid bodies, rolling motion, angular momentum, static equilibrium, elasticity, law of universal gravitation, elements of thermodynamics.

**Prerequisite:** Physics 12 (50% or Better) and (Principles of Math 12 (50%) or PreCalculus 12 (50%))

**Prerequisite course must be completed prior to the beginning of dual credit course.**

*Schedule:* Monday, Wednesday, Friday 9:30am-10:20am

*Instructor:* Erik Jensen

*Location:* 8-166

**NOTE:** There is a lab requirement for this course (3 hour/week). Numerous choices available.

### **PHYS 115-4 General Introduction to Physics**

This is an algebra-based introductory physics course for students without Grade 12 Physics. Topics include physics and measurement, the laws of motion and their applications, circular motion, work and energy, electric field, electric potential, DC circuits, magnetic fields and magnetic forces. Students with credit in Physics 12 require permission of the Program Chair.

*Schedule:* Monday, Wednesday, Friday 1:30pm-2:20pm

*Instructor:* Ian Hartley

*Location:* 8-164

**NOTE:** There is a lab requirement for this course (3 hour/week). Numerous choices available.

### **PHYS 150-3 Physics for Future Leaders**

This course examines the physics underlying major technological aspects of modern society and issues of global concern. Through addressing themes such as global warming, the energy problem and alternative sources of energy, nuclear power and nuclear weapons, health and medical technology, pollution of the atmosphere, satellites, telecommunication, and the internet, this course introduces basic physics topics such as motion and energy, atoms and heat, gravity and force, electricity and magnetism, light and electromagnetic waves, radioactivity and nuclear reactions, quantum physics, and relativity. This course requires no scientific or mathematical background and is accessible to students in any discipline.

*Schedule:* Monday, Wednesday, Friday 8:30am-9:20am

*Instructor:* Meghan (Bridget) Costello

*Location:* 5-178

### **POLS 100-3 Contemporary Political Issues**

An introduction to the basic concepts of political science through an examination of contemporary political issues: local, provincial, national and international.

*Schedule:* Monday, Wednesday 10:00am-11:20am  
*Instructor:* TBA  
*Location:* 6-213

**NOTE:** There is a tutorial requirement for this course (1 hour/week). Numerous choices available.

### **PSYC 101-3 Introduction to Psychology**

This course provides an introduction to the science of psychology. Topics may include the following: scientific thinking and research methods; biological psychology; sensation and perception; consciousness; the unconscious; learning; memory; language; and evolutionary psychology.

*Schedule:* Tuesday & Thursday 4:00pm-5:20pm  
*Instructor:* Paul Siakaluk  
*Location:* 6-213

### **WMST 100-3 Introduction to Women's Studies**

A study of past and present women's positions in and contributions to society from a multidisciplinary perspective. Specific topics, with a focus on western society, will include an historical overview of politics, law and the family, productive roles, health and illness, science, culture and philosophy.

*Schedule:* Tuesday & Thursday 6:00pm-7:20pm  
*Instructor:* TBA  
*Location:* 8-164