



## Lakeland College University Transfer Course Descriptions 2025-2026

*All courses are 3 credits unless otherwise noted (ANPH 210, ENGL 112, and NS 171).*

*Course descriptions and course outlines are subject to change. Not all course combinations are possible.*

**ANPH 210 Principles of Anatomy & Physiology** – This is a 6-credit course that introduces the structure of the human body and the function of the human organ systems. Pre-requisite: CHEM 101 and BIOL 107

**ASTRO 120 (Sem 2)** – This course offers a comprehensive examination of the solar system, emphasizing the scientific concepts and observational methods employed in the analysis of its elements. It incorporates essential physical and mathematical theories, such as the principles of gravity and orbital dynamics. Additionally, students will be familiarized with telescopes and various astronomical instruments, allowing them to acquire hands-on experience through fundamental observation activities. Pre-requisite: Math 30-1 or Math 30-2

**BIOCH 200 Introductory Biochemistry (Sem 2)** – Fundamental principles of biochemistry, including: protein structure and function; lipids and the structure of biological membranes; nucleotides and the structure of nucleic acids; bioenergetics and the metabolism of carbohydrates, lipids, and nitrogen; the integration and regulation of cellular metabolism. Pre-requisite: CHEM 101 and 161

**BIOL 107 Introduction to Cell Biology (Sem 1 & 2)** – An introduction to cell structure and function. Major topics include the molecules and structures that comprise prokaryotic and eukaryotic cells, the mechanisms by which energy is harvested and used by cells, how cells reproduce, and how information is stored and used within a cell via the processes of DNA replication, transcription, and translation. Pre-requisite: Biology 30 and Chemistry 30.

**BIOL 108 Introduction to Biological Diversity (Sem 1)** – Examines the major lineages of life on Earth, and is an overview of evolutionary principles and classification, the history of life, and the key adaptations of prokaryotes, protists, fungi, plants, and animals. Laboratories survey the diversity of biological form and function and introduce students to data collection and scientific writing. Pre-requisite: Biology 30.

**BIOL 207 Molecular Genetics and Heredity (Sem 2)** – Go over chromosomal and molecular basis for the transmission and function of genes, the construction of genetic and physical maps of genes and genomes, and strategies for the isolation of specific genes. You will go over examples of regulatory mechanisms for the expression of the genetic material in both prokaryotes and eukaryotes. Pre-requisite: BIOL 107

**BIOL 208 Principles of Ecology (Sem 1)** – Ecology is the scientific study of interactions between organisms and their environment in a hierarchy of levels of organization: individuals, populations, communities, and ecosystems. This course provides a comprehensive survey of general concepts that can stand alone or serve as preparation for advance courses in ecology. Labs emphasize the collection, analysis, and interpretation of data from ecological experiments and field studies to illustrate and complement the lecture material. Pre-requisite: BIOL 108

**CHEM 101 Introductory University Chemistry I (Sem 1)** – Atoms and molecules, states of matter, chemistry of the elements. Pre-requisite: Chemistry 30

**CHEM 102 Introductory University Chemistry II (Sem 2)** – Rates of reactions, thermodynamics and equilibrium, electro-chemistry, modern applications of chemistry. Pre-requisite: CHEM 101

**CHEM 161 Organic Chemistry I (Both)** – The study of basic molecular structure and reactivity of organic compounds based on their functional groups. An introduction to nomenclature, three-dimensional structure, physical properties, reactivity of compounds of carbon, functional groups covered will emphasize alkanes, alkenes, alkynes, alkyl halides, alcohols, and some aromatics. Examples will include hydrocarbons (petroleum products), halogenated organic compounds (e.g., pesticides), and polymers of industrial importance which may be found in everyday life. Pre-requisite: Chemistry 30; CHEM 101 strongly recommended.

**CHEM 263 Organic Chemistry II (Sem 2)** – Continuation of the structural and chemical properties of the basic functional groups of organic compounds including alkynes, aromatic compounds, aldehydes, ketones, carboxylic acids and their derivatives and amines. Illustration of these functional groups in natural products such as carbohydrates, amino acids and proteins, nucleic acids and lipids, and the discussion of the use of spectroscopic methods for the structure determination in simple organic molecules. Pre-requisite: CHEM 161

**DRAMA 149 Dramatic Process I (Sem 2)** – You will learn speech and movement improvisation with an emphasis on imaginative development; introduction to the process of acting and to dramatic form. Note: Designed for students with little or no previous background in Drama. Pre-requisite: English 30-1 or equivalent

**DRAMA 247 Introduction to Oral Communication (Sem 1)** – This practical course is designed to explore basic techniques of oral presentation skills through expressive interpretation of written and self-generated material. Through an emphasis on personal creative process, self-confidence, and physical and vocal ease, this course encourages the student to find and develop dynamic and varied delivery. Pre-requisite: English 30-1 or equivalent

**EAS 100 Planet Earth (Sem 1)** – Introduction to the origin and evolution of the Earth and the solar system, plate tectonics and the rock cycle, simple energy balances and interactions between radiation and the atmosphere, land, oceans, ice masses, and the global hydrological cycle. As well as evolution of life, biogeography, and global climate in the context of geologic time, the carbon cycle, human interaction with the Earth, and mineral and energy resources. Pre-requisite: English 30-1 or equivalent

**EAS 105 The Dynamic Earth Through Time (Sem 2)** – The plate tectonic framework of a dynamic Earth as it relates to the origin of major groups of minerals and rocks. You will look at earthquakes, structural geology, origin of mountain belts, surface processes and their sedimentary products, and the history of life and extinctions. Pre-requisite: EAS 100

**EDU 100 Contexts of Education (Both)** – This course introduces education with an emphasis on exploring what it means to be a teacher in contemporary society. Education is explored in different contexts and from the following perspectives: historical, sociological, philosophical, Indigenous, political, and ethical. While the focus of this course is teaching in Alberta K-12 schools, comparisons are also made with education in other contexts. This course is intended for Education students transferring to the U of A. (Not to be taken for credit if credit has already been obtained in EDFX 200). Pre-requisite: English 30-1 or equivalent

**EDU 210 Introduction to Educational Technology (Sem 2)** – This course provides undergraduate education students with the framework and skills to effectively consider, plan, and adopt an instructional practice that meaningfully uses technology to strengthen a student's learning experience. Students examine the many different facets of learning and teaching through the lens of digital technology including digital content, online resources and tools, mobile apps, a variety of digital devices, and other potential technologies to provide personalized learning experiences for students. This course is intended for Education students transferring to the U of A. (Students may not receive credit for both EDU 210 and EDIT 202). Pre-requisite: English 30-1 or equivalent; basic digital competencies including word processing, email, and use of a Web browser.

**EDPY 304 Adolescent Development and Learning (Sem 2)** – This course deals with adolescent development and connects it to the teaching/learning process and student behavior. It includes theory, research, and illustrations, all dealing with the classroom application of psychological principles. Topics covered include adolescent development (biological, cognitive, and social/emotional), individual and group differences in adolescence, and adolescent psychological perspective. This course is intended for students pursuing Secondary Education at the U of A. It is recommended that students take EDU 100 and/or PSYCO 104/105 prior to or in conjunction with this course. (Students may not receive credit for both EDPY 304 and EDPY 200).

**ENGL 112 English Literature in a Historical Perspective** – 6-credit course. Studies in the social and cultural history of literature in English. Not to be taken by students with 6 credits in approved junior English. Pre-requisite: English 30-1 or equivalent

**ENGL 224 Indigenous Storytelling (Spring)** – *Will be offered in Spring 2025.* "Stories of the Land on the Land" explores the "nature" of Indigenous stories and storytelling through written works and oral traditions. It incorporates land-based learning and field trips to analyze the synergies and/or gaps between the written word (historical and fictional) and local, oral stories. Pre-requisite: ENGL 112.

**ENGL 373 Canadian Literature to 1925 (TBD)** *Not scheduled at this point in time.* – Selected works from the Canadian context, up to 1925. Pre-requisite: ENGL 112.

**ENGL 388 Folklore in Children's Literature in English (Sem 1)** – An examination of the related fields of folklore and fantasy in children's literature in English. It deals with those elements of folklore, mythology and legend that have become a traditional part of children's literature and includes certain modern adaptations and fantasies which have their origins in myth and folklore. Pre-requisite: ENGL 112

**ENGL 389 Classics of Children's Literature in English (Sem 2)** – This critical survey of children's literature in English examines a variety of works, both historical and contemporary, that warrant consideration as books of continuing interest. It introduces students to the development of children's literature and to significant works. Its aim is to develop in students the ability to read children's literature critically. Pre-requisite: ENGL 112

**HEED 110 Introduction to Personal Health and Well-Being (Both)** – An individual-based analysis of physical fitness and personal health issues. Emphasis on planning and managing one's own lifestyle for health and well-being within the context of the current health care system. Pre-requisite: English 30-1 or equivalent

**HIST 111 Early Modern World (Sem 1)** – World history from the 15th - 18th century. Prerequisite: English 30-1 or equivalent

**HIST 250 American History to 1865 (Sem 2)** – A survey of United States history from colonial times to the Civil War. Prerequisite: English 30-1 or equivalent

**HIST 260 Pre-Confederation Canada (Sem 1)** – Important themes of Canadian history from the period of early exploration to the Confederation movement in the 1860s. HIST 260/261 together constitutes a complete survey of Canadian history and provides a foundation for senior and advanced courses in the subject. Prerequisite: English 30-1 or equivalent

**HIST 261 Post-Confederation Canada (Sem 2)** – Important themes of Canadian history from Confederation in 1867 to the present. HIST 260/261 together constitute a complete survey of Canadian history and provide a foundation for senior and advanced courses in the subject. Prerequisite: English 30-1 or equivalent

**MATH 113 Elementary Calculus I (Both)** – You will review analytic geometry. As well as learn differentiation, integration of simple functions, and applications. Pre-requisite: Pure Math 30 or Math 30-1(AB); Math A30/B30/C30 or Pre-Calculus 30(SK)

**MATH 160 Higher Arithmetic (Sem 1)** – You will learn elementary number theory, numeration systems, number systems, and elementary probability theory in this course. Pre-requisite: Pure Math 30 or Math 30-1 or Math 30-2 (AB); Math A30/B30 or Pre-Calculus 30 or Foundations of Math 30 (SK)

**MICRB 265 Microbiology (Sem 2)** – This course focuses on the structure and physiology of free-living and pathogenic bacteria. The diversity of their metabolic activities, the interaction of microbes with their environment, symbiotic relationships and cell-to-cell communication are major topics. Lectures and laboratory exercises are coordinated to explore topics in basic microbiology, environmental microbiology, molecular microbiology, and the production of economically or medically important products through microbial biotechnology. Pre-requisite: BIOL 107 and CHEM 161

**MUSIC 100 Rudiments of Music (Sem 1)** – Fundamentals of music theory approached through aural and written training. Pre-requisite: English 30-1 or equivalent

**NS 110 Historical Perspectives in Native Studies (Sem 1)** – This course is a thematic introduction to the historical relationships, colonial contexts, and social, political, and cultural patterns that have shaped the contemporary situation of Aboriginal peoples in Canada. Pre-requisite: English 30-1 or equivalent

**NS 111 Contemporary Perspectives in Native Studies (Sem 2)** – Overview of various major issues facing Canadian Aboriginal peoples and governments today. The focus will be from a Native Studies perspective and will deal with issues such as land, self-government, economic development, education, and health. Pre-requisite: English 30-1 or equivalent

**NS 171 Introductory Cree** – This 6-credit Cree Language course is for the beginning Cree speaker at an introductory level. The course introduces students to the Plains Cree (Y dialect) vocabulary and provides instruction to develop word and sentence building skills for conversation. The course components consist of four areas needed for cultural and language understanding; these include consonant and vowel sounds, vocabulary, research, and linguistic theory. Pre-requisite: English 30-1 or equivalent

**NUTR 110 Introductory Nutrition (Both)** - Introduction to human nutrition. The macronutrients and major micronutrients and their functions in the body are introduced. Recommended nutrient intakes and guidelines are described. Nutrition issues facing the public throughout the lifecycle are discussed. Pre-requisite: English 30-1 or equivalent

**PAC 100 Applied Resistance Training (Sem 1)** – This course is the study and implementation of fundamental principles associated with various resistance training methodologies. Prerequisite: Completion of HE ED 110 is highly recommended.

**PAC 137 Volleyball Activity Class (Sem 1)** – This course is designed for students to learn and to be able to teach the fundamental skills of volleyball. Through active participation students work on their volleyball skills and apply those skills to the technical and tactical scenarios in the sport of volleyball. Pre-requisite: English 30-1 or equivalent

**PEDS 293 Introduction to the Movement Activities of Children Aged 5-12 (Both)** – A study of developmentally appropriate movement activities for children. Students will participate and work with children in a variety of physical activities in recreational, educational and sport environments. Pre-requisite: English 30-1 or equivalent

**PEDS 294 A Conceptual Approach to Physical Activity (Sem 2)** – A study of the fundamental movement concepts that underlie the physical activities engaged in by youth of secondary school age. Pre-requisite: English 30-1 or equivalent

**PHYS 124 Particles and Waves (Sem 1)** – Algebra-based course primarily for students in life, environmental, and medical sciences. It guides the student through two distinct types of motion: motion of matter (particles) and wave motion. Vectors, forces, bodies in equilibrium, review of kinematics and basic dynamics; conservation of momentum and energy; circular motion; vibrations; elastic waves in matter; sound; wave optics; black body radiation, photons, de Broglie waves. Pre-requisite: Physics 30 and Pure Math 30 or Math 30-1 (AB); Math A30/B30/C30 or Pre-Calculus 30 (SK)

**POLS 101 (Sem 2)** – This course introduces students to the core concepts in politics and examines political institutions that profoundly impact our daily lives. This course prepares students to be successful in political studies, be more informed citizens, and understand the political processes that govern Canada and the world. Prerequisite: English 30-1 or equivalent. *Note: only transferring to U of A and USask, plus Concordia, King's and U of L.*

**PSYCO 104 Basic Psychological Processes (Both)** – Principles and development of perception, motivation, learning and thinking and their relationship to the psychological functioning of the individual. Pre-requisite: English 30-1 or equivalent

**PSYCO 105 Individual and Social Behavior (Both)** – Is an introduction to the study of human individually, personality, and social psychological processes. Some aspects of normal and abnormal human development, psychological assessment and treatment may be reviewed. Pre-requisite: PSYCO 104

**PSYCO 223 Developmental Psychology (Both)** – Biological, cognitive, and social aspects of psychological development, with special emphasis on infancy, childhood and adolescence. (Students transferring to the U of A should not enroll in both EDPY 200 and PSYCO 223). Pre-requisite: PSYCO 104/105

**PSYCO 233 Personality (Sem 2)** – Is an introductory survey including representative theoretical points of view and research relevant to the major problems of the study of personality. Pre-requisite: PSYCO 104/ 105

**PSYCO 241 Social Psychology (Sem 1)** – Theories and research on the individual in a social context. Pre-requisite: PSYCO104/105

**PSYCO 341 Cultural Psychology (Sem 2)** – Introduction to psychological approaches to the study of culture, including cross-cultural psychology, cultural psychology, indigenous psychologies, and the psychology of ethnicity and intercultural contact. Pre-requisite: one of PSYCO 223, 233, or 241

**SOC 100 Introductory Sociology (Both)** – The course is an examination of the theory, methods, and substance of Sociology. The study of how societies are shaped including economy, culture, socialization, deviance, stratification, and groups. You also look at the process of social change through social movements, industrialization, etc. Pre-requisite: English 30-1 or equivalent

**SOC 102 Social Problems (Sem 2)** – The definition/development of social problems and an examination of selected structural issues in various societies, including inequality, population growth, environment, human rights. Pre-requisite: SOC 100

**SOC 224 Sociology of Deviance and Conformity (Sem 1)** – Processes involved in defining behavior patterns as deviant; factors which influence conformity and change; examination of such behavior patterns as sexuality, alcoholism, drug use and selected mental and physical disabilities; public reaction to such behavior. Pre-requisite: SOC 100

**SOC 242 Sociology of Gender (Sem 1)** – This course introduced students to the sociological study of gender and gender relations in contemporary society. The course covers aspects of recent research and of current debates on femininity and masculinity. It includes an introduction to some classic and contemporary theoretical perspectives on gender as well as an examination of gender issues in social institutions including the family, education, and the world of work. Pre-requisite: SOC 100

**SOC 225 Criminology (Sem 2)** – Examination and attempted explanation of crime and juvenile delinquency, with an analysis of the social processes leading to criminal behavior. Pre-requisite: SOC 100

**SOC 271 Introduction to the Family (Sem 1)** – An introduction to the study of family relationships and their variant forms with focus on mate selection, couple, kin, age and gender dynamics, family dissolution or reconstitution and change. The course is a comparative approach with emphasis on families in Canada. Pre-requisite: SOC 100

**SOC 282 Race and Ethnic Relations (Sem 2)** – This course introduces students to sociological analyses and theories of ethnic and cultural diversity, with an emphasis on contemporary Canada. Specific topics include race, ethnicity and racism, the Canadian cultural and ethnic mosaic, Aboriginal relations in Canadian society, immigration trends and patterns, and multiculturalism. Pre-requisite: SOC 100

**STAT 151 Introduction to Applied Statistics I (Both)** – This course includes data collection and presentation, descriptive statistics, probability distributions, sampling distributions, central limit theorem, point estimation and hypothesis testing. As well as correlation and regression analysis, goodness of fit and contingency table. Pre-requisite: Pure Math 30 or Math 30-1 or Math 30-2 recommended (AB); Math A30/B30/C30 or Pre-Calculus 30 or Foundations of Math 30 recommended (SK)