

Programs of study

Luther College High School adheres to the Government of Saskatchewan curricula and also offers the International Baccalaureate (IB) program.



Christian Ethics

Christian Ethics 9

Jesus and Christianity

- Jesus' roots in Judaism
- life & teaching of Jesus

Ethics 10

The study of religion

- Hinduism
- Buddhism
- Christianity
- Islam
- Judaism
- Indigenous spirituality
- religious prejudice
- mind-control groups
- cults & cult manipulation

Christian Ethics 20

Christian themes

- basic life issues & spirituality
- the Christian life
- Church history
- basic Christian beliefs
- morality

Christian Ethics 30

The individual in society

- Christian perspectives
- social issues
- sexuality
- justice issues
- personal morality

IB Theory of Knowledge 20/30

Theory of Knowledge

- "How do we know?"
- reflection on diverse ways of knowing & areas of knowledge
- perception, reason, language & emotion
- mathematics, natural sciences, human sciences, history, the arts & ethics
- belief, certainty, culture, evidence, explanation, interpretation, intuition, technology, truth, values & biases

English

English Language Arts A9 & B9

- language studies with a focus on: short stories, novels, myths, poetry, non-fiction & Shakespearean drama
- analytical, oral written skills

English Language Arts A10 & B10

- the individual & society
- Shakespeare's Macbeth
- creative writing
- formal writing skills

English Language Arts A20

- literature & the human experience
- poems, stories, essays

Communication Studies 20

- formal & informal oral & written communications

English Language Arts A30

- Canadian literature
- novels, poems & plays
- independent drama productions

English Language Arts B30

- American, British & world literature
- novels, poems & plays
- Shakespeare's Hamlet

IB English 20 (Higher Level)

- fiction, poetry, drama
- formal written essay
- oral presentations

IB World Literature 20 (Higher Level)

- world literature in translation (3 works)
- novels & plays

IB English A30 (Higher Level)

- specialized genre study (4 major works)

IB English B30 (Higher Level)

- text in depth (3 works)
- prose & poetry
- Shakespeare's Hamlet

Film Studies

Communication Media 10

- introduction to film history
- basic techniques of video filming, audio recording and digital editing
- introduction to film theory (genres, styles, directing)
- production skills workshops and collaborative film production

Communication Media 20

- continued development of camera, audio & editing skills (including Adobe Premier and After Effects)
- introduction to production design and production management
- screenplay writing
- advanced production skills workshops and collaborative film production

Communication Media 30

- film set protocols
- independent study of a film director or genre
- Canadian film history, modern Canadian films, Indigenous film culture
- advanced production skills workshops and collaborative film production

IB Film 20/30 (Standard Level)

- film history and international film studies
- textual analysis of film – study of technique, directing styles, production design and cinematography
- independent study of film history and/or theory
- production skills in cinematography, directing, sound design, editing, writing and a finished film

Fine Arts

Visual Art 9

- drawing
- basic design
- critique
- historical overview

Visual Art 10

- drawing
- painting
- Canadian art history
- sculpture

Visual Art 20

- problem solving
- generating visual ideas
- relating ideas to traditions

Visual Art 30

- portfolio development
- numerous media
- individual & group critique

IB Art 20/30 (Standard Level)

- research & studio work
- fundamentals of design
- aesthetic & technical problems
- portfolio development
- improvisation
- fundamentals of performance
- collaborative theatre making
- theatre genre study

Drama 9

- improvisation
- fundamentals of performance
- collaborative theatre making
- theatre genre study

Drama 10

- working with scripts
- theatre production
- collective creation
- theatre history

Drama 20/30

- intermediate/advanced study of theatre production
- performance skills
- theatre studies

Music 9

- listening skills
- performance
- note literacy skills
- introduction to handbells
- exploration of styles

Band 9, 10, 20 & 30

- ensemble band experience
- instrumental technique
- music appreciation
- individual & group performance

Music and Choral 10, 20 & 30

- two semesters
- voice development
- ear training
- sight reading
- basic theory
- explore styles from jazz to classical
- handbells
- tour & perform
- AVE auditioned performance vocal ensemble

IB Music 20/30 (Standard Level)

- music history (western and world music)
- development of listening techniques through the study, analysis and examination, comparing and contrasting of musical cultures
- creating music through composition, arranging and improvising
- performance

Languages

French 9,10 Immersion

- speaking, listening & writing skills
- developing specific idiogrammatic vocabulary

French 9

- Entre Amis 3
- listening, speaking, reading & writing

French 10

- Entre Amis 3
- development of written skills

French 20

- Voyages 2
- grammar structures
 - read & discuss supplemental literature

French 30

- Voyages 2
- advanced grammatical structures
 - read & discuss supplemental literature

IB French 20/30 (Standard Level)

- French 30 credit
- French & French-Canadian short stories, essays & novels
- film analysis & critique

German 9

- introduction to German language & culture
- listening & speaking

German 10

- development of language skills
- reading & writing

German 20

- introduction to more complex language structures
- communication through conversation & writing

German 30

- introduction to German literature
- writing
- focus on current European events

IB German 20/30 (Standard Level)

- German 30 credit
- continuation of language skill development
- emphasis on conversation & reading
- IB final examination

Latin 9

- Our Latin Heritage
- introduction to Latin
 - vocabulary
 - grammar & syntax

Latin 10

- Our Latin Heritage
- vocabulary
 - grammar & syntax
 - reading & comprehension
 - Latin-English connections

Latin 20

- Our Latin Heritage
- independent study (instructor approval required)
 - study of classical writers

Latin 30

- independent study (instructor approval required)

Mathematics

Math 9A & 9B

- numbers and operations with integers & rational numbers
- linear relations
- ratios, proportions and percents
- solving equations and inequalities
- polynomials
- geometrical figures
- square roots
- Pythagorean theorem
- surface area
- circle geometry
- similarity & transformations
- probability & statistics

Mathematics Foundations/ Pre-Calculus 10

- metric & imperial measurement
- trigonometry
- factors & multiples
- irrational numbers
- exponents
- polynomial expressions
- linear relations & functions
- systems of linear equations
- combined math

Combined Math Credit 10

- year-long class (two semesters)
- two curriculums are covered (Workplace & Apprenticeship 10 and Foundations & Pre-Calculus 10)
- two credits are awarded if a student completes the year-long course
- recommended for students who struggled in grade 9 mathematics
- smaller class size for more one-on-one instruction
- class moves at a slower pace to allow for better understanding.

Foundations of Mathematics 20

Measurement

- rates, scale diagrams, proportional reasoning, surface area, volume

Geometry

- properties of angles & triangles, cosine law & sine law

Logical Reasoning

- inductive & deductive reasoning, spatial reasoning

Statistics

- normal distribution, standard deviation, Z-scores, interpret statistical data

Relations and Functions

- systems of linear inequalities in 2 variables, quadratic functions

Foundations of Mathematics 30

- set theory and its applications
- combinations
- probability and odds
- inductive and deductive reasoning
- mathematics for financial decision making
- representation and analysis of data using functions
- data collections and analysis research
- and presentation

Pre-Calculus 20

Sequences and Series

- arithmetic sequences and series, geometric sequences and series, infinite geometric series

Trigonometry

- angles in standard position, The Sine Law, The Cosine Law

Quadratics Functions and Equations

- solving quadratic equations, properties of quadratics, graphing and analyzing quadratic functions

Radical Expressions and Equations

- simplifying radical expressions, solving radical equations

Absolute Value and Reciprocal

- absolute value functions, solving absolute value equations, graphing the reciprocals of functions

Systems of Equations and Linear and Quadratic Inequalities

- graphing inequalities, solving systems graphically and algebraically

Rational Expressions and Equations

- simplifying rational expressions (+, -, x, /), solving equations involving rationals

Pre-Calculus 30

- polynomials and polynomial functions
- radical and rational functions
- trig functions and their graphs
- trig identities
- trig equations
- exponential and logarithmic functions
- functions and graphs
- permutations and combinations

Calculus 30

- differentiation
- integration
- applications
- inductive reasoning
- deductive reasoning
- mathematical induction

LCBS IB-Prep Math

- Math Foundations 10,
- Pre-Calculus 10
- Math Foundations 20, Pre-Calculus 20

IB Mathematics (Standard Level)

- accelerated core components of foundations of Mathematics 30 & Pre-Calculus 30
- IB final examination

IB Calculus (Standard Level)

- Calculus 30
- additional vectors
- IB final examination

Physical Education

Physical Education 9

- fitness goals and assessments
- active living
- nutrition
- conflict resolution in sport and athletics
- human anatomy and physiology
- tactics and strategies
- core strength
- physical literacy (volleyball, pickleball, tchoukball, badminton, ultimate frisbee, basketball, yoga, ethnic dances, gymnastics, etc.)
- weight training principles and fitness

Health 9

- decision-making processes
- understanding adolescent growth & development
- coping with personal, family, social & environmental change

Life Transitions 9

- welcome to Luther: traditions & expectations
- how to study
- accounting
- time management
- career guidance

Wellness 10

- wellness wheel
- fitness goals and assessment
- stress management/self awareness
- female health (cancers, reproductive disorders) - females only
- mental health awareness
- wellness action plan
- individual fitness plans
- physical literacy (volleyball, tchoukball, badminton, ultimate frisbee, basketball, hip hop dance, yoga, sepak takraw, flag football, etc).
- create a game
- nutrition

Physical Education 20 (Co-Ed)

- coaching and mentoring
- the psychology of sport
- nutrition and performance
- first aid and CPR
- active living (potential activities: 5 pin bowling, self-defense, boxing, curling, ultimate frisbee, golfing, racquetball, badminton, volleyball, basketball, soccer, disc golf, tennis, lawn bowling, yoga, wally ball, YMCA visits, group games, rock climbing, spin, etc.)

Physical Education 30 (Co-Ed)

- business of sport
- nutrition of sport
- biomechanics in sports
- active living (potential activities: 5 pin bowling, self-defense, boxing, curling, ultimate frisbee, scuba, golfing, racquetball, badminton, volleyball, basketball, soccer, disc golf, tennis, lawn bowling, yoga, wally ball, YMCA visits, group games, rock climbing, spin, etc.)

Sciences

Science 9

- Life Science: reproduction and human development
- Physical Science: atoms and elements
- Physical Science: characteristics of electricity
- Earth and Space Science: exploring our universe

Science 10

- investigate career paths related to various branches and sub-branches of science
- climate and ecosystem dynamics
- chemical reactions
- force and motion in our world

Environmental Science 20

- examines local and global environmental issues from a systems perspective
- effects of human actions and growing global population on climate and environment on human health
- mechanisms and importance of aquatic and terrestrial ecosystems
- sustainability of past and current practices and technologies humans have developed to live with and within the environment

Physical Science 20

- combines chemistry and physics
- heating and cooling
- foundations of chemistry
- mole and quantitative analysis of molecules and chemical reactions
- characteristics and properties of waves
- study of enterprise and public and private science as it occurs in agriculture, industry, and universities to help better understand various physical science related career paths
- student inquiry will guide independent investigations of physical science phenomena
- properties & structure of matter
- atomic structure
- nomenclature
- chemical equations
- stoichiometry
- condensed phases of matter
- gas laws
- arrangement of electrons
- periodic table

Health Science 20

- examines the health science field from holistic and analytical perspectives to provide a basis for making sound personal health choices
- philosophies that guide health care and consider ethical decision with those contexts
- basic anatomy and physiology of the human body and various body systems
- the role of metabolism and nutrition
- diagnostic tools and procedures and how they are used to perform treatments
- investigation of health science careers and post-secondary programs available in Saskatchewan

Biology 30

- genetic continuity
- evolutionary theory
- life processes regulation & homeostasis
- organisms & their environment
- independent study

IB Health Science/Biology 20/30 (Higher Level)

- credit awarded for Health Science 20 and Biology 30
- four semesters
- units of study:
 - molecular biology
 - cell biology
 - genetics
 - ecology
 - evolution and biodiversity
 - human health and physiology
 - plant biology

Chemistry 30

- molecular shape, energy changes & reaction rates
- effect of temperature & concentration
- equilibrium, acids & bases & introduction to oxidation

IB Physical Science/Chemistry 20/30 (Standard Level)

Over two semesters:

- transition elements
- lab work
- investigate cis-trans isomers
- synthesis of aspirin
- qualitative analysis
- chromatography
- "Group IV" project
- IB final examination

IB Environmental Systems and Societies (ESS) 20/30

- environmental processes and issues spanning from local to global levels
- diversity of cultural perspectives
- IB final examination

Physics 30

- kinematics & dynamics
- mechanical energy
- electricity
- atomic physics
- nuclear physics

Computer Science 20

Introductory Programming

- introduction to computing and number systems
- programming concepts: variables and branching
- programming concepts: arrays and looping
- programming concepts: functions and random numbers
- HTML and CSS
- scripting and dynamic HTML

Computer Science 30

Intermediate Programming

- review of programming concepts
- drawing with canvases
- introduction to networking
- object-oriented programming
- recursion and sorting
- external files and visualization

IB Environmental Systems and Societies (ESS) 20/30 (Standard Level)

- foundations of environmental systems and societies
- ecosystems and ecology
- biodiversity and conservation
- water and aquatic food production systems and societies
- soil systems and terrestrial food production systems and societies
- atmospheric systems and societies
- climate change and energy production
- human systems and resource use
- practical scheme of work including:
 - practical activities
 - individual investigation (IA)

Social Sciences

History 9

Roots of Society

- prehistory
- ancient history
- early European history
- influences on Saskatchewan's roots

History 10

Social organizations of early modern Europe

- Renaissance, Reformation & revolutions
- political & economic organizations
- ideologies
- international relations
- causes of World War I

History 20

20th-Century World History

- World War I
- rise of Authoritarian States
- World War II
- The Cold War and Decolonization

History 30

History of Canada

- the colonial period
- forming the nation
- national policy, railways & western expansion
- Canada & world affairs
- Canadian-American relations
- French-Canadian nationalism & the "Quebec question"

IB History 20 (Higher Level)

20th-century world history

Over two semesters:

- causes, practices & effects of war
- nationalism, decolonisation & the end of empires
- rise of single-party states
- East-West relations since 1945
- economic changes & social development
- IB final examination

IB History 30 (Higher Level)

The Americas

- two semesters
- the colonial period
- independence movements
- 19th-century development
- 20th-century issues
- IB final examination

Indigenous Studies 30

Study of Canada's

Indigenous peoples and the present-day issues that shape the relationship between Canada's Indigenous and non-Indigenous populations. Topics of study will be presented and discussed in a political science framework. (May be studied in lieu of Christian Ethics 30)

Topics of study

- Aboriginal and Treaty Rights
- Governance
- Land Claims and Treaty Land Entitlements
- Economic Development
- Social Development