



ursa Summer School Course Offerings

ENGLISH LANGUAGE ARTS 30-1 (ELA3105 5 CREDITS)

This course is designed to lead the student to fulfill high school graduation requirements in Alberta and as a culminating High School English Language Arts course. It is intended to be completed by students who plan to apply to post-secondary programs at a university or some colleges and trade schools. It is an appropriately challenging and rigorous course, as outlined by Alberta Education. In English 30-1, students will explore a variety of mediums (poetry, visuals, short stories, non-fiction, Shakespearean play, film, and novel) to showcase their understanding of how the English Language is used to convey thoughts and emotions. Students are required to use Proctorio remote supervision software for assessments in this class. The course is designed to fully prepare students for diploma exam success.

Students must write both parts of the English 30-1 diploma exam. The final mark must appear on the student's transcripts as both the course mark and diploma exam mark are required

For a student to be successful in this course, **ursa** requires a minimum of 65% in the prerequisite course.

Prerequisite: ELA 20-1 OR 30-2

MATHEMATICS 30-1 (MAT3791, 5 CREDITS)

In this pre-calculus course, students will gain the mathematical knowledge and critical thinking skills appropriate for entry into math-intensive post-secondary programs that require the study of calculus. Topics of study include trigonometry, transformations, logarithms, function operations, permutations, combinations, and binomial theorem. Students are required to use Proctorio remote supervision software for assessments in this class.

For a student to succeed in this course, **ursa** requires a minimum of 65% in Mathematics 20-1 or 70% in Mathematics 30-2.

Students must write the Mathematics 30-1 diploma exam. Both the course mark and diploma exam mark are required for an official mark to appear on a student's transcript.

Note: Students will require an approved graphing calculator (TI-84 recommended).

Prerequisite: Math 20-1 OR 30-2

MATHEMATICS 31 (MAT3211, 5 CREDITS)

This non-calculator-based course is intended to prepare students for entering post-secondary studies in engineering or other science-related programs. Topics students will study include pre-calculus, limits, derivatives and their applications, curve sketching, trigonometry, exponential and logarithmic functions, and integrals. Students are required to use Proctorio remote supervision software for assessments in this class.

For a student to succeed in this course, **ursa** requires a minimum score of 50% in Math 30-1.

Prerequisite: Math 30-1

SOCIAL STUDIES 30-1 (SST3771, 5 credits)

In this course, students explore the answer to the question, “What is an ideology and how do ideologies develop and impact individuals, communities, and societies as a whole?” They uncover the answers to these questions and more as they investigate topics such as ideology and identity, liberalism, individual and collective rights, and democratic citizenship. This is the third and final course in the stream for students interested in and with an aptitude for Social Studies. Students are required to use Proctorio remote supervision software for assessments in this class.

Students must write both parts of the Social Studies 30-1 diploma exam. The final mark must appear on the student's transcripts as both the course mark and diploma exam mark are required.

For a student to be successful in this course, **ursa** requires a minimum of 60% in the prerequisite course. Only one prerequisite course is required.

Prerequisite: Social Studies 20-1 OR Social Studies 30-2

BIOLOGY 30 (SCN3231, 5 credits)

Biology 30 is intended to develop students' understanding and application of biological concepts and skills. This course focuses on understanding the biological principles behind the natural events the students experience and the technology they use in their daily lives. Students are required to use Proctorio remote supervision software for assessments in this class.

Students must write the Biology 30 diploma exam. The final mark must appear on the student's transcripts, as both the course mark and diploma exam mark are required.

For a student to be successful in this course, **ursa** requires a minimum of 65% in the prerequisite course.

Prerequisite: Biology 20

CHEMISTRY 30 (SCN3796, 5 credits)

Chemistry 30 is a rigorous science program designed for students with a strong aptitude and keen interest in mathematics applied to the world of chemistry and who intend to pursue post-secondary studies in a science program. Students will develop skills in problem-solving and understanding of technology as it affects everyday life and experiences. Topics include thermochemistry and how to find the heat of a reaction, electrochemistry including how batteries work, organic chemistry highlighting fossil fuel reactions, and acids and bases equilibrium systems. Students are required to use Proctorio remote supervision software for assessments in this class.

Students must write the Chemistry 30 diploma exam. The final mark must appear on the student's transcripts, as both the course mark and diploma exam mark are required.

For a student to be successful in this course, **ursa** requires a minimum of 65% in the prerequisite course.

Prerequisites: Chemistry 20

PHYSICS 30 (SCN3797, 5 credits)

Physics 30 is intended to further students' understanding and application of fundamental physics concepts and skills. The course focuses on understanding the physics principles behind the natural events that students experience and the technology they use in their daily lives. Students are required to use Proctorio remote supervision software for assessments in this class.

Students must write the Physics 30 diploma exam. The final mark must appear on the student's transcripts as both the course mark and diploma exam mark are required.

For a student to be successful in this course, **ursa** requires a minimum of 65% in the prerequisite course.

Prerequisite: Physics 20

SCIENCE 30 (SCN3270, 5 credits)

In this course, students will investigate topics such as circulation and genetics, acid-base chemistry, organic chemistry, electromagnetic radiation, and energy resources. This course is an academic science course that covers biology, chemistry, physics, and environmental science. Students are required to use Proctorio remote supervision software for assessments in this class.

Students must write the Science 30 diploma exam. The final mark must appear on the student's transcripts as both the course mark and diploma exam mark are required.

For a student to be successful in this course, **ursa** requires a minimum of 65% in at least one of the prerequisite courses.

Prerequisite: Science 20 OR Chemistry 20 OR Physics 20