

ITINERIS Early College High School

Itineris Early College High School is a math and science high school. Itineris follows the "Early College High School" model; a high school situated on or near a college campus offering students the opportunity to earn college credit at the same time they are completing their high school graduation requirements. Some students have the potential to earn an Associate of Science or Associate of Applied Science degree while earning their high school diplomas. The curriculum focus is "biotechnology" and other related science and math fields. The school serves 11th & 12th grade students and is organized around small, cohort learning groups emphasizing the smaller learning community philosophy. Itineris Early College High School is located on the Jordan Campus of Salt Lake Community College.

Benefits of Itineris Early College High School:

- Rigorous academic curricula
- Options for students and parents
- Culture of caring and connections
- Access to higher education
 - Counsel in navigating path between high school and college
 - Internships
 - Earning college credit / AS Degree or AAS Degree
 - Mature learning environment

<u>Connect Time</u>	7299	(E)	11, 12	1.0
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This course brings together a small group of students, called a cohort. Each cohort will have an assigned faculty or staff member that will facilitate teamwork and successful communication skills, as well as, provide information on navigating college life. This course also provides access to trusted adult counsel, academic tutoring & support, and information about career and educational opportunities.

<u>Language Arts 11</u>	4611	(LA)	11	1.0
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This course is designed for students whose reading and writing skills are at or near grade level. The course includes instruction in critical reading skills, listening and speaking, viewing, writing, and presentation skills. Students will read, write, and discuss a variety of texts that are functional, informational, and literary. The course also prepares students for College Prep English at the senior level.

<u>Technical and Professional Communications</u>	4624	(Sr. LA)	12	1.0
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Prerequisite: Instructor approval

This course is designed to introduce students to technical and professional communication and its application to problem solving. Students will identify objectives, analyze audiences and produce oral and written communication within specialized genres to solve a problem. At all stages of the writing process students will work in teams to research, plan, draft, edit, review and revise their documents. Ethics, cultural awareness, and civic responsibility will guide research and decision making throughout the course.

<u>Critical Reading</u>	0200	(E)	11, 12	0.5
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This course assists students in the development of fundamental reading skills in support of all core courses.

<u>Critical Writing</u>	0200	(E)	11, 12	0.5
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This course assists students in the development of fundamental writing skills in support of all core courses.

<u>United States History 2</u>	6111	(USH)	11	1.0
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Understanding United States history is essential for the continuation of our democratic society. This course will help students make connections between their world and the rich heritage of United States history. The course is designed as a survey of American history with an emphasis on post-Reconstruction America (1876-Present), but should include a review of the earlier period. This course is a core requirement for graduation.

<u>U.S. History AP</u>	6113	(USH)	11	1.0
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Prerequisite: Instructor approval

This course is a college-level course in American history from the period of the first European explorations of the Americas to the present. The course emphasizes political institutions and behavior, public policy, social and economic change, diplomacy and human relations, and cultural and intellectual developments. University credit can be earned with a successful performance of the AP exam. This course fulfills the core requirement for graduation.

<u>U.S. Government and Citizenship</u>	6128	(USGC)	12	1.0
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The goal of this course is to foster informed, responsible participation in public life. Knowing how to be a good citizen is essential to the preservation and improvement of United States democracy. Upon completion of this course, the student will understand the major ideas, protections, privileges, structures, and economic systems that affect the life of a citizen in the United States political system. This course is recommended for seniors due to their proximity to voting and draft age.

<u>History Research</u>	0200	(E)	11, 12	0.5
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A course designed to give students additional time to study history concepts and receive extra tutorial help. This course is designed to be taken concurrently with other high school or college history courses, and will correlate with and complement the knowledge learned in these courses.

<u>Intermediate Algebra</u>	5111	(M)	11, 12	1.0
<i>Prerequisite: Mastery of Elementary Algebra and Geometry or Applied Mathematics II.</i>				
This course will build upon the knowledge previously learned in Elementary Algebra and Geometry. It will provide students with the reasoning skills necessary for many careers and the mathematical tools they will need to be successful in advanced mathematics classes. The study of functions is the primary focus of Intermediate Algebra. Exploring functions, investigating their behaviors, and making and verifying reasonable conjectures about those behaviors will develop student's reasoning and thinking skills. To develop these important skills, students will study functions algebraically by traditional methods, as well as numerically and graphically using technology and manipulatives. Types of functions receiving a major focus in the course will be quadratic, absolute value, radical, and sine and cosine. The course will also emphasize the concepts of complex numbers, matrices, systems of equations and inequalities, and probability using permutation and combinations. While mathematical skills will be developed, teaching will focus on understanding of the concepts in-depth, enabling students to apply mathematical skills and make meaningful connections to life experiences.				
<u>College Prep Math</u>	5126	(AAF-M)	11, 12	.5/1.0
Students will acquire the skills needed to be successful in Math 1050 (College Algebra). The focus of the course will be on analysis and use of functions. Emphasis will be given to collecting data to motivate the development of the analytical model of each function that will be studied.				
<u>Math Research</u>	0200	(E)	11, 12	0.5
A course designed to give students additional time to study mathematical concepts and receive extra tutorial help. This course is designed to be taken concurrently with other high school or college mathematics courses, and will correlate with and complement the knowledge learned in these courses.				
<u>Science Recitation</u>	0200	(E)	11, 12	0.5
A course designed to give students additional time to study the scientific concepts and material. Students will also receive extra tutorial help in this course. It is designed to be taken concurrently with other college science courses, and will correlate with and complement the knowledge learned in these courses.				
<u>General Psychology (PSY 1010) credits</u>	6143	(E)	11, 12	0.5/3 SLCC
Explores basic areas of psychology, and how each explains human thought and behavior at the individual, familial, and cultural levels.				
<u>Elements of Effective Communication (COMM 1010) credits</u>	9829	(Sr. LA, CTE)	11, 12	0.5/3 SLCC
Listening, verbal & nonverbal messages, negotiation, conflict management, and diversity in workplace and interpersonal settings. Communication theory and practice applied in small group, writing, and electronic and verbal presentation assignments.				
<u>COMM 1020 Public speaking (UVU) credits</u>	9833	(CTE)	11, 12	0.5/3 UVU
This course covers speech research, preparation, outlining, and delivery. Provides students with practical experience and evaluation.				
<u>Introduction to Writing (ENGL 1010) credits</u>	9600	(Sr. LA)	12	0.5/3 SLCC
<i>Prerequisite: WRTG 0990 with a C or better, equivalent or placement.</i>				
Development of critical literacy – reading, writing and thinking – using methods of knowledge-making. Promotes awareness of rhetorical strategies as they apply to a variety of socio-cultural contexts.				
<u>Intermediate Writing (ENGL 2010) SLCC credits</u>	9602	(Sr.LA)	12	0.5/3
<i>Prerequisite: English 1010 with C or better.</i>				
Extends principles of rhetorical awareness and knowledge making introduced in English 1010 and increases the ideological engagement within the classroom, interrogates socioeconomic and political issues.				
<u>United States Government and Politics (POLS 1100)** CEU/UVU credits</u>	6148	(USGC)	11, 12	0.5/3
U.S. Constitution, political parties and elections, interest groups, Congress, president, bureaucracy, courts, and civil rights and liberties.				
<u>Introduction to the Humanities (HUM 1010)** credits</u>	9605	(Sr. LA)	11, 12	0.5/3 SLCC
Course thematically investigates the fundamental and perennial questions of humankind and how human beings relate through culture to their political, religious, social, intellectual, economic and geographic environments.				
<u>Exploring Art (ART 1010)** credits</u>	1067	(A)	11, 12	0.5/3 SLCC
This course is a glimpse into the world of art for the non-art major. There will be some non-judgmental, hands-on producing of art. Some reading and writing will be required.				

<u>Beginning Pottery (ART 1600)</u> credits	1065	(A)	11, 12	0.5/3 SLCC
This course is an introduction to the potter's wheel. Students become familiar with terms, tools, and techniques used to create functional objects with the potter's wheel.				
<u>Intermediate Algebra (MATH 1010)</u> credits	5501	(AAF-M)	11, 12	0.5/4 SLCC
<i>Prerequisite: MATH 0970 with C or appropriate CPT scores.</i>				
Linear and quadratic equations; inequities; polynomials; rational expressions; radicals; negative and rational exponents; complex numbers; linear systems; introduction to functions; logarithms; and exponential functions.				
<u>College Algebra (MATH 1050)</u> credits	9653	(M)	11, 12	0.5/4 SLCC
<i>Prerequisite: MATH 1010 with C or appropriate CPT scores.</i>				
College Algebra satisfies quantitative literacy requirements for students planning to take calculus. Topics: polynomial, rational, exponential, and logarithmic functions; matrices; conics; sequences and series; and mathematical induction.				
<u>Trigonometry (MATH 1060)</u> credits	9654	(M)	11, 12	0.5/3 SLCC
<i>Prerequisite: MATH 1050 with C or appropriate CPT scores.</i>				
Trigonometric functions and their graphs developed using circular and triangular methods including inverses; polar coordinates; and an introduction to vectors.				
<u>Calculus 1 (MATH 1210)*</u> credits	9655	(M)	12	0.5/4 SLCC
<i>Prerequisite: MATH 1060 with a C or above.</i>				
Topics include: limits; derivatives of algebraic and transcendental functions; applications of differentiation. Integration is introduced with the Fundamental Theorem of Calculus and the technique of substitution.				
<u>Calculus 2 (MATH 1220) ***</u> credits	9656	(M)	12	0.5/4 SLCC
<i>Prerequisites: MATH 1210 with a C or above.</i>				
Topics include applications and techniques of integration; parametric equations and polar coordinates; Taylor and power series, and 3-dimensional analytical geometry and vectors.				
<u>Intro to Biology (BIOL 1010)</u> credits	3221	(BS)	11, 12	1.0/4 SLCC
<i>Prerequisite: Concurrent with BIOL 1015.</i>				
For non-science majors. A survey of living diversity from bacteria to plants and animals. Introduces cell structure and physiology, inheritance, evolution, and classification. Concurrent enrollment in the lab (BIOL 1015) is required.				
<u>Intro to Biology Lab (BIOL 1015)</u> credits	3229	(E)	11, 12	0.5 SLCC
<i>Prerequisite: Concurrent with BIOL 1010.</i>				
Required as lab portion of BIOL 1010. Important aspects of plant biology are illustrated. Laboratory study, experimentation, and analysis illustrating important biological principles. One laboratory session per week.				
<u>College Biology I (BIOL 1610)</u> credits	3223	(AAS-S) BS on USOE list	11, 12	1.0/4 SLCC
<i>Prerequisite: Concurrent with BIOL 1615. CPT or ACT score for math or reading required.</i>				
For biology/science and health/science majors. May be used as a prerequisite for any biology class. Content: biological chemistry, cell structure, metabolism, genetics, evolution, and diversity. Three hours of lecture per week with additional lab component (BIOL 1615) required.				
<u>College Biology Lab (BIOL 1615)</u> credits	3224	(E)	11, 12	0.0 SLCC
<i>Prerequisite: Concurrent with BIOL 1610.</i>				
Required as lab portion of BIOL 1610. Activities include: laboratory safety, use of the microscope, the acquisition and interpretation of biological data, and a survey of organismal diversity. One laboratory session per week.				
<u>Cell Biology (BIOL 2020)*</u> credits	3225	(AAF-S)	12	1.0/4 SLCC
<i>Prerequisite: BIOL 1210/1215 (C grade or better), concurrent with BIOL 2025.</i>				
For biology/science majors. Topics covered include cell division, organelle structure and function, gene expression, cytoskeleton, and extracellular matrix. Concurrent enrollment in the lab (BIOL 2025) is required.				
<u>Cell Biology Lab (BIOL 2025)</u> credits	3226	(E)	12	0.5 SLCC
<i>Prerequisite: BIOL 1210/1215 (C grade or better), concurrent with BIOL 2020.</i>				
Lab required with BIOL 2020. Introduction to some of the basic lab techniques in modern cell biology. Lab activities include: microscopy, cell fractionation and analysis of cellular components. One lab session per week.				

<u>Introduction to Biotechnology (BTEC 1010)</u> credits	9846	(CTE, AAF-S)	11, 12	0.5/3 SLCC
The study of living organisms from bacteria to plants and animals. Introduces cell structure and physiology, inheritance, evolution, and classification.				
<u>Introduction to Biotechnology Lab (BTEC 1015)</u> credits	9877	(CTE, AAF-S)	11, 12	0.5/1 SLCC
<i>Prerequisite: BTEC 1010.</i> Important aspects of biology are illustrated. Laboratory study, experimentation, and analysis illustrating important biological principles.				
<u>Applied Molecular Biology (BTEC 2010)</u> credits	9873	(AAF-S)	12	0.5/1.0 4 SLCC
<i>Prerequisite: BTEC 1010 and BTEC 1210.</i> This course teaches students practical aspects of DNA technology that includes restriction digestion, properties of plasmids, recombinant, DNA cloning, gel electrophoresis, the polymerase chain reaction, and protein expression.				
<u>Biomolecular Separation and Analysis (BTEC 2020)</u> credits	9874	(AAF-S)	12	0.5/1.0 4 SLCC
<i>Prerequisites: BTEC 1020 and BTEC 1060.</i> Purification and analysis techniques that are applied to biologically active substances are taught. Attention will be given to protein purification and analysis and includes immunological, electrophoretic, and chromatographic technologies.				
<u>Introduction to Chemistry (CHEM 1010)</u> SLCC credits	3237	(AAF-S)	11, 12	0.5/1.0 3
Survey of general chemistry: structure, composition, properties, and chemical transformations. Non-lab course.				
<u>General Chemistry I (CHEM 1210)</u> credits	3235	(CS)	11, 12	1.0/4 SLCC
<i>Prerequisite: MATH 1050 with C or better, concurrent with CHEM 1215.</i> Fundamentals of inorganic chemistry. Atomic structure chemical bonding, chemical reactions, solution chemistry, stoichiometry, periodic table, thermo chemistry, kinetics, gases, and kinetic molecular theory will be covered.				
<u>General Chemistry Lab I (CHEM 1215)</u> credit	3236	(E)	11, 12	0/1 SLCC
<i>Prerequisite: Concurrent with CHEM 1210.</i> Graded laboratory taken concurrently with CHEM 1210.				
<u>Beginning Spanish I (SPN 1010)</u> SLCC credit	9575	(Sr. LA)	11, 12	1.0/5.0
First in a series of four courses which focus on listening, speaking, reading, writing, and culture. Major objective of the first year is to develop functional language ability in the Spanish culture. Lab attendance is required.				
<u>Beginning Spanish II (SPN 1020)</u> SLCC credit	9576	(Sr. LA)	11, 12	1.0/5.0
<i>Prerequisite: SPN 1010 or Instructor approval</i> Second in a series of four courses which focus on listening, speaking, reading, writing, and culture. The major objective of the first year is to develop functional language ability in the Hispanic culture. Lab attendance is required.				
<u>Biotechnology Experience (BTEC 1080)</u> credit	9878	(CTE, AAF-S)	12	.5/3.0 SLCC
<i>Prerequisite: BTEC 1010 & BTEC 1015</i> This course is an early hands-on research experience in which students conduct monitored research activities. Students apply their knowledge to specific research topics assigned by Biotechnology faculty.				
<u>Orientation to Education EDU 1010</u> SLCC credit	9948	(E)	11, 12	.5/3.0
Teaching as a career; challenges and rewards; history; philosophies; social issues; legal issues; job availability and governance. Preparation for acceptance into a teacher education program. Field experience required.				
<u>Financial Literacy</u> credit	2200	(F)	11, 12	.5/0
This course will prepare students for the choices and challenges of today's financial markets. A better understanding of personal finance will help students move into adulthood making more informed monetary decisions, realizing a greater potential for personal wealth, and fostering a stronger state and national economy. The class will focus on income, money management, spending and credit, saving and investing, consumer protection, and risk management.				

Explorations in Biotechnology

3190

(E)

10-12

.5/0

credits

This course is composed primarily of laboratory experiences that use current technologies to explore biological concepts. This course will explore current career pathways related to biotechnology and will also cover bioethics. Topics in this course include protein synthesis, DNA and RNA technologies, forensics, cloning, stem cells, and pharmacogenomics.

* = Taught by full time SLCC faculty in a competitive setting

** = Taught via CEU/UVU Ed Net

*** = Available through SLCC Early Enrollment