

Advanced Southern Credit (ASC) Courses Available 2024-2025

The following lists of courses represent the current Advanced Southern Credit (ASC) courses offered at our partner high schools.

ASC classes in the high school sync with one or more terms of credit at SOU by aligning with a university course and its description, content, and learning objectives. ASC credits are transcribed exactly the same as if students took these courses at SOU, so the content being delivered in the ASC high school classroom must match the SOU course credit being offered, and alignment is approved by university faculty in the aligning department. SOU department faculty and the Chairs make the final decision for alignment; however, we encourage schools to reach out to the SOU Youth Programs office if they wish to propose a class that is not currently being offered through ASC.

Common Course Numbering: A 'Z' at the end of a course name, such as WR 121Z, denotes that it is approved for Common Course Numbering (CCN), a statewide transfer initiative through the Higher Education Coordinating Commission (HECC).

English & Writing

WR 121Z - Composition I 4 credits

WR 121Z engages students in the study and practice of critical thinking, reading, and writing. The course focuses on analyzing and composing across varied rhetorical situations and in multiple genres. Students will apply key rhetorical concepts flexibly and collaboratively throughout their writing and inquiry processes.

WR 122Z - Composition II 4 credits

WR 122Z builds on concepts and processes emphasized in WR 121Z, engaging with inquiry, research, and argumentation in support of students' development as writers. The course focuses on composing and revising in research-based genres through the intentional use of rhetorical strategies. Students will find, evaluate, and interpret complex material, including lived experience; use this to frame and pursue their own research questions; and integrate material purposefully into their own compositions. Prerequisite(s): WR 121Z with a C- or better.

ENG 104Z - Introduction to Literature 4 credits

Involves critical reading, discussion, and written analysis of literary texts. ENG 104Z focuses on novels and poetry.

Advanced Southern Credit (ASC) Courses Available 2024-2025

ENG 105Z - Introduction to Literature 4 credits

Involves critical reading, discussion, and written analysis of literary texts. ENG 105Z explores short fiction and drama.

ENG 208 - Explorations in Literary Genres 4 credits

Involves close reading and analysis of texts, with a focus on literary genres. Topics include poetry, novel, essay, film, short story, drama, or a comparison of two or more genres. Some experience with literary analysis recommended.

ENG 209 - Literature in the Modern World 4 credits

Focuses on reading and analysis of texts organized around a specific topic, with an emphasis on the literary work in its social and cultural context.

Mathematics

MTH 111Z - Precalculus I: Functions 4 credits

A course primarily designed for students preparing for trigonometry or calculus. This course focuses on functions and their properties, including polynomial, rational, exponential, logarithmic, piecewise-defined, and inverse functions. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology.

MTH 112Z - Precalculus II: Trigonometry 4 credits

A course primarily designed for students preparing for calculus and related disciplines. This course explores trigonometric functions and their applications as well as the language and measurement of angles, triangles, circles, and vectors. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology. Prerequisite(s): MTH 111Z (with a C- or better).

STAT 243Z - Elementary Statistics I 4 credits

A first course in statistics focusing on the interpretation and communication of statistical concepts. Introduces exploratory data analysis, descriptive statistics, sampling methods and distributions, point and

Advanced Southern Credit (ASC) Courses Available 2024-2025

interval estimates, hypothesis tests for means and proportions, and elements of probability and correlation.

MTH 244 - Applied Statistical Methods 4 credits

Presents an assortment of tools from inferential statistics with an emphasis on applications. Reviews the concepts of hypothesis testing and confidence intervals. Introduces probability distributions of test statistics for various inferential statistical problems. Includes Analysis of Categorical Data (Chi-Square Goodness of Fit Test), Analysis of Variance (ANOVA), Nonparametric Statistics, and a brief introduction to Multiple Linear Regression. Applies the concepts and procedures with appropriate software tools for data analysis. Prerequisite(s): STAT 243Z (with a C- or better).

MTH 251 - Calculus I 4 credits

Introduces limits, continuity, and differentiation. Applications include linear approximation, graphing techniques, related rates, and maximum/minimum problems. Students are introduced to writing precise mathematical arguments. Prerequisite(s): MTH 112 (with a C- or better).

MTH 252 - Calculus II 4 credits

Introduces integration, developed as a limit of Riemann sums. Covers the first and second forms of the Fundamental Theorem of Calculus, techniques of integration, and numerical integration. Applications are selected from length, area, volume, work, and motion. Students are expected to understand and reproduce precise mathematical arguments. Prerequisite(s): MTH 251 (with a C- or better).

MTH 253 - Calculus III 4 credits

Studies infinite sequences and series, convergence tests, power series expansion of functions, vectors and vector functions, and the geometry of functions in multidimensional space. Prerequisite(s): MTH 252 (with a C- or better).

Science

BI 101 - General Biology: Cells 4 credits

Examines the organization of cells, including their composition and structure, energy-trapping and use, information storage, and cell division. Three hours of lecture and one 2-hour laboratory, or hybrid with online lecture and face-to-face laboratory, or online.

Advanced Southern Credit (ASC) Courses Available 2024-2025

BI 102 - Biology of the Human Organism 4 credits

Addresses the organization and function of multicellular organisms, with an emphasis on humans. Three hours of lecture and one 2-hour laboratory.

BI 103 - General Biology: Populations 4 credits

Covers the organization of populations, including Mendelian inheritance, adaptation to the environment, evolution, population growth, communities, ecosystems, and pollution. Three hours of lecture and one 2-hour laboratory.

ES 200 - Introduction to Environmental Science 4 credits

Provides an overview of how the Earth's environmental systems function, how humans are linked to these systems, and how humans can affect their operation. Many of the topics covered are environmental problems caused by human activity; however, solutions to the problems are highlighted as a path forward to a sustainable society—one that lives off of natural income without irreversibly depleting natural capital. Provides the opportunity to view sustainability from the vantage point of multiple disciplines, and incorporates data collection, analysis, writing, and critical thinking.

ES 101 - Introduction to Environmental Science: Earth Science 4 credits

Provides students with a basic understanding of the Earth's atmosphere, geosphere, and hydrosphere. Topics include minerals, rocks, atmospheric and oceanic composition, and the structure of the Earth's interior. Provides a framework for students interested in the major processes operating on the Earth's surface and in its interior. Three hours of lecture and one 3-hour laboratory. Corequisite(s): ES 101L (with a C- or better).

ES 101L - Introduction to Environmental Science: Earth Science Lab 0 credits

Corresponding lab for ES 101.

ES 102 - Introduction to Environmental Science: Biological Science 4 credits

An introductory biology course exploring the fundamentals of biodiversity, species conservation, and ecosystem services. This course focuses on the evolution and adaptation of organisms to their environments, highlighting a fantastic array of plants, animals, and fungi at the community, ecosystem and biome level. The course will allow students to understand contemporary environmental issues such as deforestation, climate change, wildfire, water pollution, and more. Coupled with a laboratory that is held almost entirely in the field, students experience local environmental ecosystems through group adventure. Corequisite(s): ES 102L.

Advanced Southern Credit (ASC) Courses Available 2024-2025

ES 102L - Introduction to Environmental Science: Biological Science Lab 0 credits

Corresponding lab for ES 102.

PH 201 - General Physics I 3 credits

Algebra-based introduction to general physics for science majors with special emphasis on applications and problem-solving in healthcare, biology, and sustainability. Topics covered include equations of motion (kinematics) in 1D and 2D; Newton's laws of motion (dynamics); rotational kinematics and dynamics; work, kinetic energy, and potential energy; conservation of linear momentum and conservation of angular momentum; and the law of universal gravitation. Prerequisite(s): Previous or concurrent enrollment in MTH 112.

PH 202 - General Physics II 3 credits

Algebra-based introduction to general physics for science majors with special emphasis on applications and problem-solving in healthcare, biology, and sustainability. Topics covered include fluid statics and fluid dynamics; temperature and heat; the ideal gas law and the kinetic theory of gases; thermodynamics (with some statistical mechanics); oscillations, simple harmonic motion, waves and the principle of superposition; sound and the physics of hearing; and electric charges, forces, and fields. Prerequisite(s): PH 201 (with a C- or better).

CS 200 - Introduction to Computer Science 4 credits

Introduces computer science including the foundational skills for programming. The programming language is selected by the instructor. Intended for non-majors. Prerequisite(s): MTH 95 (with a C- or better).

CH 104 - Survey of Chemistry I 3 credits

Explores the fundamentals of chemistry by investigating inorganic, organic, and biochemistry. Designed for students pursuing careers in nursing, allied health sciences, or majoring in non-science disciplines. Prerequisite(s): MTH 65 (with a C- or better) or STAT 243Z (with a C- or better).

CH 104L - Survey of Chemistry Lab I 1 credit

Explores the fundamentals of chemistry by investigating inorganic, organic, and biochemistry. Designed for students pursuing careers in nursing, allied health sciences, or majoring in non-science disciplines. Corequisite(s): CH 104.

Advanced Southern Credit (ASC) Courses Available 2024-2025

CH 105 - Survey of Chemistry II 3 credits

Explores the fundamentals of chemistry by investigating inorganic, organic, and biochemistry. Designed for students pursuing careers in nursing, allied health sciences, or majoring in non-science disciplines.

Prerequisite(s): CH 104 (with a C- or better).

CH 105L - Survey of Chemistry Lab II 1 credit

Explores the fundamentals of chemistry by investigating inorganic, organic, and biochemistry.

Corequisite(s): CH 105.

PH 112 - Astronomy: The Solar System 3 credits

Introduces astronomy, with an emphasis on the solar system. Topics include the origin and history of the solar system; the sun, planets, and moons; comets, meteoroids, and asteroids; a discussion of life in the universe; and the instruments and techniques used in the study of astronomy (taken with PH 114)

PH 114 - Astronomy Workshop: The Solar System 1 credit

Practical exercises to accompany PH 112. Corequisite(s): PH 112.

PH 113 - Astronomy: The Stars 3 credits

Introductory stellar astronomy. Explores historical and contemporary ideas about the origin and evolution of stars, galaxies, and the universe; cosmology; and the techniques and instruments of deep space astronomy. (taken with PH 115).

PH 115 - Astronomy Workshop: The Stars 1 credit

Practical exercises to accompany PH 113. Corequisite(s): PH 113.

Social Sciences

HST 110 - World Civilizations 4 credits

Examines the development of world civilizations. Emphasizes political, economic, social, religious, and cultural factors. Relates earlier patterns of world civilization to present conditions and problems. Includes lecture, discussion of readings, video documentaries, feature film analysis, and small group activities.

HST 110 & HST 111 courses may be taken out of sequence.

Advanced Southern Credit (ASC) Courses Available 2024-2025

HST 111 - World Civilizations 4 credits

Examines the development of world civilizations. Emphasizes political, economic, social, religious, and cultural factors. Relates earlier patterns of world civilization to present conditions and problems. Includes lecture, discussion of readings, video documentaries, feature film analysis, and small group activities. HST 110 & HST 111 courses may be taken out of sequence.

HST 250 - American History and Life 4 credits

Explores United States history and culture from indigenous times to the present. HST 250 begins with indigenous life and culture before European contact and ends with the Civil War and Reconstruction. HST 251 begins with the rise of big business and examines major themes in U.S. history through the present. Course methods include lecture and discussion of readings.

HST 251 - American History and Life 4 credits

Explores United States history and culture from indigenous times to the present. HST 250 begins with indigenous life and culture before European contact and ends with the Civil War and Reconstruction. HST 251 begins with the rise of big business and examines major themes in U.S. history through the present. Course methods include lecture and discussion of readings.

PS 202 - Introduction to American Government and Politics 4 credits

Examines the formal institutional structure of American national government (e.g Congress, Presidency, Courts etc); the allocation of state and local authority under federalism; and the significant social, economic, and cultural issues characterizing American politics.

PSY 201Z - General Psychology 4 credits

Offers a general survey of the field of psychology covering a range of scientific and applied areas, including methodology, biological basis of behavior, perception, learning, sensation, memory, motivation, thinking, and emotion.

PSY 202Z - General Psychology 4 credits

Offers a general survey of the field of psychology covering a range of scientific and applied areas within the discipline, including human development, personality assessment, intelligence, maladaptive behavior patterns, treatment approaches, health and well-being, social and cultural groups, and social psychology.

Advanced Southern Credit (ASC) Courses Available 2024-2025

SOAN 107 - Introduction to Human Geography 4 credits

Surveys global human diversity using geographic perspectives. Emphasizes basic human geography concepts and skills. Examines regional variation based on language, religion, and other cultural traits; political conflicts; and development of cultural landscapes.

SOAN 108 - Global Lands and Livelihoods 4 credits

Provides a systematic geographic survey of human economic systems, regions, and activities. Provides a basis for a systematic understanding of resources as environmental and cultural elements. Introduces the tools for analysis of extraction, manufacturing, and service industries. Explores the basic nature and cultural relativity of legal and market economic control functions in regulated market economies. Models spatial interaction and provides fundamental insights into the growth and economic functions of cities.

EC 201 - Principles of Microeconomics 4 credits

Introduces consumer and firm behavior and the market process. Explores the economic analysis of different market structures of perfect competition, imperfect competition, and monopoly, along with the principles of income distribution and resource allocation under a market system. Some sections approach the principles of microeconomics by focusing on a particular topic or issue.

EC 202 - Principles of Macroeconomics 4 credits

Deals with human behavior and choices as they relate to the entire economy. Covers aggregate demand and aggregate supply of goods and services; the effect of taxes and spending on the economy's output and employment; and the Federal Reserve's manipulation of the money supply, inflation, and economic growth. Some sections approach the principles of macroeconomics by focusing on a particular topic or issue.

IS 250 - Introduction to International Studies 4 credits

Introduces students to important tools for understanding global issues and international affairs from different perspectives, and examines ways in which different disciplines adopt geopolitical and sociocultural approaches to global and international issues in different world regions. Students engage in multidisciplinary exploration of selected contemporary regional and global issues. The course presents the world as an integrated and interdependent set of global systems.

CCJ 231 - Introduction to Criminology 4 credits

Surveys descriptive, empirical, and theoretical issues in the study of crime and delinquency. Considers the roles of social, cultural, economic, political, psychological, chemical, biological, and ideological factors in the causes and treatment of criminal behaviors. Exposes students to the major theoretical perspectives

Advanced Southern Credit (ASC) Courses Available 2024-2025

in the field, as well as to the critiques and uses of these perspectives in the prevention of and response to crime.

CCJ 251 - Law & Society 4 credits

Surveys the criminal justice process from arrest through appeals. Introduces substantive criminal law, constitutional limits on the law, elements of a crime, legal defenses to criminal liability. Explores the legal limits on criminal justice processes such as search and seizure, confessions and interrogations, pretrial, trial and appellate procedure. Familiarizes students with the jurisdiction, structure, and purpose of federal and state courts.

ERS 201 - Introduction to Ethnic and Racial Studies 4 credits

Introduces students to the interdisciplinary field of Ethnic & Racial Studies. Explores various ways race and ethnicity are created and re-created in society, and the way these social constructions perpetuate (and even challenge) social equality. Examines the myths and contradictions of race and racism, and what purposes these constructs serve in societies where hierarchies and inequalities exist. By analyzing the complex intersections of race and ethnicity within U.S. political and social structures, students gain a critical analysis of historic and contemporary racial inequality, and consider the effectiveness of the various solutions put forth by public policy, academics, and community activists.

Art & Art History

ART 133 - Introduction to Drawing 4 credits

Introduces drawing techniques as used in developing imagery from observation and the imagination. Includes drawing from a nude model.

ART 199 - Special Studies 4 credits

Credits to be arranged. Repeatable up to 18 credits.

ARTH 204 - History of Art: Prehistory through Medieval 4 credits

Historical survey of the visual arts of Western and Non-Western cultures from the prehistoric to medieval periods. Examines selected artworks in relation to their historical and cultural contexts and introduces students to fundamental themes, terms, and methods used in the analysis of art and visual culture.

Advanced Southern Credit (ASC) Courses Available 2024-2025

ARTH 206 - History of Art: Nineteenth Century to Contemporary 4 credits

Historical survey of the visual arts of Western and Non-Western cultures from the nineteenth to twenty-first centuries. Examines selected artworks in relation to their historical and cultural contexts and introduces students to fundamental themes, terms, and methods used in the analysis of art and visual culture from this period.

DCIN 101 – Production Tools: Audio 2 credits

Introduces basic audio recording techniques for film, television, and digital production, focusing on representational clarity, fidelity, and safe professional practices. Students complete exercises using digital audio recorders, wireless and boom-mounted microphones, and Adobe Audition.

DCIN 102 - Production Tools: DSLR Video 2 credits

Introduces basic photography and videography techniques, including fundamentals of exposure, composition, visual aesthetics, and photo editing. Students complete exercises using DSLR cameras, Adobe Lightroom and Adobe Photoshop.

DCIN 103 - Production Tools: Non-Linear Editing 2 credits

Introduces essential non-linear video editing techniques and principles of post-production workflow. Students will complete exercises that develop beginning and intermediate familiarity with Adobe Premiere Pro.

EMDA 201 - Image and Animation Design 2 credits

Introduces students to a range of technical and conceptual approaches to creating digital images and animation as well as an overview of design vocabulary and history. Corequisite(s): EMDA 201R.

EMDA 201R - Image and Animation Design - Recitation 2 credits

Students develop a portfolio of work built around the design principles and techniques covered in EMDA 201. Corequisite(s): EMDA 201.