



OFFICE OF DUAL ENROLLMENT

(COURSE RECOMMENDATIONS)

Courses recommendations are subject to change based on availability. Please refer to the Search for Courses option on Lander's website or reach out to the Office of Dual Enrollment for questions about availability.

ART 101.INTRODUCTION TO ART

A study of the basic visual vocabulary of art; line, tone, color, shape, and texture, etc. A study of the development by artists in various periods and cultures from prehistoric to contemporary times. (General Education – Humanities and Fine Arts) *Three credit hours.*

BIOL 101.GENERAL BIOLOGY

This laboratory science course provides non-majors with an introduction to the foundational themes of biology. Topics include scientific inquiry, cellular processes, reproduction, genetics, evolution, ecology, and conservation biology. This course cannot be used to satisfy the requirements for the biology major or biology minor. Three hours lecture, three hours laboratory weekly. (General Education – Scientific and Mathematical Reasoning) *Four credit hours.*

CHEM 101.INTRODUCTION TO CRIMINALISTICS

Students will learn how science aids the criminal justice system through crime scene analysis, the collection and preservation of evidence, and laboratory techniques. Laboratory methods commonly employed in the analysis of evidence will be discussed. Topics include drugs, fingerprints, ballistics, and trace evidence. Three hours lecture weekly. (General Education – Science and Mathematical Reasoning non-laboratory science) *Three credit hours.*

CHEM 111-112.GENERAL CHEMISTRY

A systematic treatment of chemical principles. Topics include atomic structure, chemical bonding, states of matter, thermodynamics, equilibrium principles, kinetics, acid-base theory, electrochemistry, coordination compounds, and radiochemistry. Three hours lecture, three hours laboratory weekly. CHEM 111 is a prerequisite for CHEM 112. (General Education – Scientific and Mathematical Reasoning) *Four credit hours per course.*

CIS 101.COMPUTER FUNDAMENTALS

Characteristics and applications of computers in today's society. Hands-on experience with microcomputers and a variety of applications software. This course is not designed as an introduction to programming and is not available for credit to students in Computer Information Systems or Mathematics majors. Prohibited to students currently enrolled in or having earned credit in CIS 102, CIS 111, CIS 112, CIS 113, and CIS 202. *Three credit hours.*

CIS 102.APPLICATION SOFTWARE

Designed to enable students to improve their personal productivity as knowledge workers. Topics include advanced software functionality, organization and management of data, webpage design and publishing, effective presentation design and delivery. Course environment will include both lectures and laboratory experience. *Three credit hours.*

ENGL 101.WRITING AND INQUIRY I

Students write for a variety of situations, audiences and purposes with an emphasis on the relationship between writing and thinking. (General Education – Core Academic Skills) *Three credit hours.*

ENGL 102.WRITING AND INQUIRY II

Students write in response to diverse texts, refining their abilities to analyze, interpret, synthesize, and evaluate ideas with an emphasis on research, and MLA style documentation. Prerequisite: ENGL 101 or placement in ENGL 102. (General Education – Core Academic Skills) *Three credit hours.*

FINA 151.PERSONAL FINANCE

The purpose of this course is to explore how individual choices influence future earnings potential and wealth building goals. Topics include money management, spending and credit, savings strategies, and investing. *Three credit hours.*

FR 101.FRENCH FOR GLOBAL CITIZENS I

This course introduces students to the lexicon and structural principles of the French language and delves into the cultures of the French-speaking world, with a special emphasis on France and francophone cultures. It promotes the acquisition of the language skills and the cultural knowledge necessary to participate effectively in multilingual communities at home and around the world. Prerequisite: Placement determined per Foreign Language Placement Policy. (General Education – World Cultures) *Three credit hours.*

FR 102.FRENCH FOR GLOBAL CITIZENS II

This course continues to introduce students to the lexicon and structural principles of the French language and delves further into the cultures of the French-speaking world, with a special emphasis on France. It promotes the acquisition of the language skills and the cultural knowledge necessary to participate effectively in multilingual communities at home and around the world. Prerequisite: FREN 101 or placement determined per Foreign Language Placement Policy. (General Education – World Cultures) *Three credit hours.*

HIST 111R.UNITED STATES HISTORY TO 1877

This course provides a general survey of U.S. history from the age of discovery to 1877, and includes instruction on the institutions of the U.S. government and documents critical to the American experience, such as the Declaration of Independence, the U.S. Constitution, The Federalist Papers, and the Emancipation Proclamation. (General Education – Founding Documents of the United States and Behavioral and Social Perspectives). *Three credit hours.*

HIST 112R.UNITED STATES HISTORY SINCE 1877

This course provides a general survey of U.S. history from 1877 to the present and includes instruction on the institutions of the U.S. government and documents critical to the American experience, such as the Declaration of Independence, the U.S. Constitution, The Federalist Papers, and the Emancipation Proclamation. (General Education – Founding Documents of the United States and Behavioral and Social Perspectives). *Three credit hours.*

MATH 121.MATHEMATICAL APPLICATIONS

This course prepares students for the quantitative reasoning tasks they may encounter in subsequent coursework. It presents a variety of mathematical topics with a focus on their applications. Topics include linear and quadratic functions, systems of linear equations, elementary linear programming, exponential and logarithmic functions, and the mathematics of finance. (The course may not be taken by students who have successfully completed MATH 141). (General Education – Scientific and Mathematical Reasoning and Core Academic Skills) *Three credit hours.*

MATH 123.CALCULUS AND ITS APPLICATIONS

An intuitive presentation of the concepts of calculus interwoven with numerous real-world applications of mathematical models. Topics include algebraic, exponential, and logarithmic functions, limits, continuity, derivatives, and integrals. Applications in the Physical, Life and Social Sciences, Business, and Medicine. (Not intended for Mathematics majors. May not be taken by students who have successfully completed MATH 141.) Competence in college level algebra is necessary for successful completion of the course. (MATH 121 or MATH 114 is

suggested for those without adequate mathematical background.) (General Education – Scientific and Mathematical Reasoning and Core Academic Skills) *Three credit hours.*

MATH 141.SINGLE VARIABLE CALCULUS I

Limits, continuity, the derivative, the chain rule, implicit differentiation, applications of the derivative, and the Mean Value Theorem. Definite and indefinite integration, the Fundamental Theorem of Calculus, and an introduction to integration through u-substitution. Students must have a thorough knowledge of precalculus such as is covered in MATH 114, including proficiency with algebra and the trigonometric functions. Students without such a background are strongly advised to take MATH 114. (General Education – Scientific and Mathematical Reasoning and Core Academic Skills) *Four credit hours.*

MATH 142.SINGLE VARIABLE CALCULUS II

This course covers techniques of integration, improper integrals, applications of the integral, infinite sequences and series, power series, Taylor's Theorem, and parametric and polar curves. Prerequisite: "C" or better in MATH 141. (General Education – Scientific and Mathematical Reasoning) *Four credit hours.*

MATH 211.STATISTICAL METHODS I

This course introduces students to elementary data analysis including graphical methods and descriptive measures; correlation and simple linear regression; the Normal distribution as a model; and the sampling distributions of statistics. Confidence intervals and tests of hypotheses for one mean and one proportion are presented. Bias and sampling plans as well as differences between observational studies and designed experiments are discussed as time allows. (General Education – Scientific and Mathematical Reasoning and Core Academic Skills) *Three credit hours.*

MUSI 101.INTRODUCTION TO MUSIC

An introductory course in listening, with accompanying discussion of the historical-cultural aspects of the art of music. This course is intended for non-music majors. General Education – Humanities and Fine Arts) *Three credit hours.*

PHIL 103.INTRODUCTION TO LOGIC

A course focusing on logic, reasoning, and argumentation. Emphasis is given to the identification, analysis, and evaluation of arguments. Formal and informal methods of deduction and induction are learned, as well as fallacies of reasoning to be avoided in constructing logically sound arguments. (General Education – Humanities and Fine Arts) *Three credit hours.*

PHYS 101.SURVEY OF INTRODUCTORY PHYSICS

This course provides an overview of concepts in physics for non-science majors examining topics such as classical mechanics, electromagnetic theory, thermodynamics, wave theory, and modern physics. Three hours lecture weekly, three hours lab weekly. (General Education – Scientific and Mathematical Reasoning) *Four credit hours.*

PHYS 105.CONCEPTUAL PHYSICS

This course provides an overview of concepts in physics for non-science majors, examining topics such as classical mechanics, electromagnetic theory, thermodynamics, wave theory, and modern physics. Three hours lecture weekly. (General Education – Scientific and Mathematical Reasoning, non-laboratory science course) *Three credit hours.*

POLS 101R.AMERICAN NATIONAL GOVERNMENT

This course provides an introductory study of major topics in American politics including political parties, elections, and public opinion. The course includes instruction on the institutions of the U.S. government and documents critical to the American experience, such as the Declaration of Independence, U.S. Constitution, The Federalist Papers, and the Emancipation Proclamation. (General Education – Founding Documents of the United States and Behavioral and Social Perspectives). *Three credit hours.*

POLS 103.INTRODUCTION TO WORLD POLITICS

This course is an introduction to contemporary world politics through examination of selected major topics such as globalization, clashes within and across civilizations, nationalism, the North-South gaps, and environmental and human rights issues. A cultural framework is used to explore the impact of power differentials as they relate to practices, beliefs, histories, traditions, and/or lived experiences around the world. This course enables students to interpret current world events and prepares students for upper-level courses in comparative politics and international relations. (General Education – World Cultures and Behavioral and Social Perspectives) *Three credit hours.*

PSYC 101.GENERAL PSYCHOLOGY

This course introduces students to the fundamental laws, facts, problems, and fields of psychology and its relation and important applications to other fields. Prohibited to students currently enrolled in or having earned credit in PSYC 102. (General Education – Behavioral and Social Perspectives). *Three credit hours.*

SOCI 101.INTRODUCTION TO SOCIOLOGY

General perspectives of sociologists toward human behavior in social groups, the individual as a social actor, interaction pattern between social groups, inter-institutional differentials in human behavior, and dynamics of social systems. SOCI 101 is required of all sociology majors. (General Education – Behavioral and Social Perspectives) *Three credit hours.*

SPAN 101.SPANISH FOR GLOBAL CITIZENS I

This course introduces students to the lexicon and structural principles of the Spanish language and delves into the cultures of the Spanish-speaking world, with a special emphasis on Mexico and Spain. It promotes the acquisition of the language skills and the cultural knowledge necessary to participate effectively in multilingual communities at home and around the world. Prerequisite: Placement determined per Foreign Language Placement Policy. (General Education – World Cultures) *Three credit hours.*

SPAN 102.SPANISH FOR GLOBAL CITIZENS II

This course continues to introduce students to the lexicon and structural principles of the Spanish language and delves further into the cultures of the Spanish-speaking world, with a special emphasis on Mexico and Spain. It promotes the acquisition of the language skills and the cultural knowledge necessary to participate effectively in multilingual communities at home and around the world. Prerequisite: SPAN 101 or placement determined per Foreign Language Placement Policy. (General Education – World Cultures) *Three credit hours.*

SPCH 101.SPEECH FUNDAMENTALS

This course teaches students to develop increased accuracy in the basic elements of the communicative process. The principles of speech communication are studied and applied. (General Education – Humanities and Fine Arts) *Three credit hours.*

THTR 201.THEATRE APPRECIATION

A study in theatrical literature that focuses on key historical eras in the development of theatre movements. (General Education – Humanities and Fine Arts) *Three credit hours.*

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