

# DUAL-ENROLLMENT COURSES

*Dual-enrollment classes enable high school students to take classes at Lenoir-Rhyne University and potentially earn college credit. These programs introduce students to the rigors of college coursework early and help them get used to the academic environment before they leave the comfort and support of home. By learning to navigate the testing, study requirements, and time-management of college classes, our students are truly “learning to go to college before they go to college.”*

## **ART 200. ART APPRECIATION**

1.0 credit/6.0 weight

A study of the fundamentals of visual design, the materials and techniques by which they are made, and the principal forms of art developed by cultures both ancient and modern.

## **ART 201. DESIGN I**

1.0 credit/6.0 weight

An examination of the principles, theories, and concepts of color and design and their application to two and three dimensional design. There will be formal exercises which are aimed at assisting the students in the development of sensitivity to color, composition, and form-making.

## **ART 205. PHOTOGRAPHY**

1.0 credit/6.0 weight

A basic introduction to the equipment, materials, and techniques for producing good photographic prints, as well as the aesthetic concepts related to the art of photography.

## **ART 211. DRAWING I**

1.0 credit/6.0 weight

Basic visual concepts and materials traditionally associated with the art of drawing.

## **BIO 105. PRINCIPLES OF BIOLOGY**

1.33 credits/6.0 weight

This Biology course is designed for science majors. The course emphasizes major biological concepts ranging from the molecular to the ecosystem level. The

following principles are covered: basic chemical and physical laws, energy dynamics, genetics, ecology, evolution, cell structure and function, growth and development. Laboratory exercises and experiments demonstrate analytical and descriptive approaches to biology and involve the collection, organization, and interpretation of various types of biological data. Three lecture hours and three laboratory hours per week.

## **BIO 106. PRINCIPLES OF BIOLOGY**

1.33 credits/6.0 weight

This course is a continuation of BIO 105. The course emphasizes major biological concepts ranging from the molecular to the ecosystem levels. The following principles are covered: basic chemical and physical laws, energy dynamics, genetics, ecology, evolution, cell structure and function, growth and development. Laboratory exercises and experiments demonstrate analytical and descriptive approaches to biology and involve the collection, organization, and interpretation of various types of biological data. Three lecture hours and three laboratory hours per week.

## **BIO 110. CONCEPTS OF BIOLOGY**

1.0 credit/6.0 weight

A course designed for non-majors involving a study of the basic biological concepts common to living organisms. Particular consideration given to the physical and chemical laws governing life, cell structure and function and basic principles of genetics, photosynthesis, cellular respiration, reproduction, and evolutionary theory. Two lecture hours and two laboratory hours per week.

## **BUS 100. INTRODUCTION TO BUSINESS**

1.0 credit/6.0 weight

A fundamental survey course designed to familiarize students with a broad overview of the relationships that exist among an organization's management, marketing, finance, production, and accounting functions. Open to first-years or any other student who has not yet completed a course in accounting or management.

## **CHE 101. FUNDAMENTALS OF GENERAL AND INORGANIC CHEMISTRY**

1.0 credit/6.0 weight for Class

0.33 credit/6.0 weight for Lab

A study of principles, laws, and theories which are basic to understanding chemical changes. Topics include atomic structure, periodic table, chemical bonding, nomenclature of compounds, solutions, acids and bases, chemical reactions and equilibrium, chemical kinetics, electrochemistry, nuclear chemistry, and properties of important metallic and nonmetallic elements and their compounds.

## **CHE 103. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS**

1.0 credit/6.0 weight for Class

0.33 credit/6.0 weight for Lab

Designed for science majors. This course teaches fundamental principles and theories of chemistry and chemical calculations. Three lecture hours per week.

## **CHE 104. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS**

1.0 credit/6.0 weight for Class

0.33 credit/6.0 weight for Lab

This course is a continuation of CHE 103. Students are taught **descriptive inorganic** chemistry; fundamentals of qualitative analysis. Three lecture hours per week.

## **COM 111. SPEECH COMMUNICATION**

1.0 credit/6.0 weight

An introduction to public speaking.

## **CSC 175. INFORMATION TECHNOLOGY**

1.0 credit/6.0 weight

This course provides literacy in computers and information systems. It will supply knowledge of productivity software packages, computer systems hardware, and computer systems software. As an introductory computer course it is designed to provide a brief study of computer applications. The course enables students to improve their skills through effective and efficient use of packaged software. The emphasis is on productivity concepts and how to achieve them through functions and features in computer software. Topics will include knowledge work productivity concepts; software functionality to support personal and group productivity; developing a solution using database software; refining and extending individual and group information management.

## **EAR 110. PHYSICAL GEOLOGY**

1.0 credit/6.0 weight

An introduction to the science of physical geology, including the study of earth materials (minerals and rocks), the forces which act on and within the earth, the major types of land forms found on the earth, structural geology, and the theory of plate tectonics.

## **ECO 121. PRINCIPLES OF ECONOMICS, MACROECONOMICS**

1.0 credit/6.0 weight

A study in the foundations of economic analysis, national income accounting, economic growth and the public sector, with emphasis on macroeconomics.

## **ECO122. PRINCIPLES OF ECONOMICS, MICROECONOMICS**

1.0 credit/6.0 weight

A study of markets, the price system and allocation of resources, distribution of income, international economy, and perspectives on economic change, with emphasis on microeconomics.

## **ENT 210. INTRODUCTION TO ENTREPRENEURSHIP**

1.0 credit/6.0 weight

This course introduces students to both commercial and social entrepreneurship through case studies, key readings, and primary information resources. This course shapes students' understanding of the entrepreneurial process and exposes students to challenges, problems, and issues faced by today's entrepreneurs. Major objectives include identifying and evaluating business opportunities, developing a business model, and creation of an academic business plan.

## **ENG 131. CRITICAL THINKING AND WRITING**

1.33 credit/6.0 weight

Instruction and practice in expository writing, reading, and critical thinking. Includes the production of a research paper, the study of rhetoric, logic, and Edited Standard Written English.

**FOREIGN LANGUAGE:** Studies in Chinese, French, German, Greek, Sign Language, and Spanish are available.

## **HES 100. CONCEPTS IN HEALTHFUL LIVING**

0.33 credit/5.0 weight

This course is designed to teach students that healthful living is not a destination, but a journey. Wellness is not a static condition, but a continual balancing of the different dimensions of human needs—spiritual, social, emotional, intellectual, physical, occupational, and environmental. Students must understand that they are responsible for their own growth in these areas, and the course emphasizes the importance of self-responsibility.

## **HIS 101.WORLD CIVILIZATIONS I**

1.0 credit/6.0 weight

A survey of the development of human civilizations with an emphasis on the course of Western civilization but with a focus on the relevance of the global community and diverse cultures for an increasingly interactive and interdependent humanity.

## **HIS 102.WORLD CIVILIZATIONS II**

1.0 credit/6.0 weight

*Prerequisite: HIS 101*

A survey of the development of human civilization with an emphasis on the course of Western civilization but with a focus on the relevance of the global community and diverse cultures for an increasingly interactive and interdependent humanity.

## **MAT 115. ELEMENTARY STATISTICS**

1.0 credit/6.0 weight

*Prerequisite: A Math SAT score of at least 500 points.*

An introduction to some of the basic concepts and procedures common to many applications of statistics. Topics include descriptive statistics, a brief study of probability, distributions of selected discrete and continuous random variables, confidence intervals, hypothesis testing, correlation, and regression.

## **MAT 129. PRE-CALCULUS MATHEMATICS**

1.0 credit/6.0 weight

*Prerequisite: A Math SAT score of at least 500 points.*

A study of selected topics from algebra and trigonometry including equations and inequalities of the first and second degree, linear and quadratic functions, systems of linear equations, the Fundamental Theorem of Algebra, exponential and logarithmic functions, right triangle trigonometry, trigonometric functions of real numbers, trigonometric identities, and trigonometric equations.

## **MAT 165. CALCULUS I**

1.33 credit/6.0 weight

*Prerequisite: A Math SAT score of at least 540 points.*

A study of the calculus of elementary real-valued functions. Topics studied will include the limit concept, the derivative, and the integral. This course is designed to meet the needs of all liberal arts students.

## **MUS 200. MUSIC APPRECIATION**

1.0 credit/6.0 weight

Fundamentals essential to the introduction and development of musical thought and judgment; aesthetic significance and other values; principal forms and historical movements; interpretation of current musical efforts.

## **PHY 110. CONCEPTS OF PHYSICS**

1.0 credit/6.0 weight

An introduction to the science of physics, including the study of the history of science and technology: mechanics, heat, electricity, magnetism, optics, atomic structure, and nuclear physics. Energy: types, sources, uses, prospects and the impact of technology on culture and future trends. Two lecture hours and a two laboratory hours per week.

## **PHY 121. GENERAL PHYSICS**

1.33 credits/6.0 weight

This course is designed for science majors. An introduction to mechanics, heat, and sound. Three lecture hours and three laboratory hours per week.

## **PHY 122. GENERAL PHYSICS**

1.33 credits/6.0 weight

This course is a continuation of PHY 121. Students are introduced to electricity, magnetism, optics, atomic and nuclear science. Three lecture hours and three laboratory hours per week.

## **PSY 100. INTRODUCTION TO PSYCHOLOGY**

1.0 credit/6.0 weight

An introduction to the basic areas of psychology with emphasis on understanding human experience and the application of empirical methods to human behavior.

## **SOC 100. INTRODUCTION TO SOCIOLOGY**

1.0 credit/6.0 weight

Systematic study of patterned social behavior, basic sociological concepts, processes of social interaction, and social relationships of groups, classes, communities, and social institutions.

## **THR 200. THEATRE APPRECIATION**

1.0 credit/6.0 weight

Development of the theatre as an institution of civilization and its relationship through the ages with other arts and the social environment. Emphasis on sampling contemporary tragedy, comedy, satire, musical, and mass media productions.