

WALLACE STATE COMMUNITY COLLEGE SELMA
DEPARTMENT OF HEALTH SCIENCES
COURSE DESCRIPTIONS

BIO-201 Human Anatomy and Physiology I

Human Anatomy and Physiology I covers the structure and function of the human body. Included is an orientation of the human body, basic principles of chemistry, a study of cells and tissues, metabolism, joints, the integumentary, skeletal, muscular, and nervous systems, and the senses. Dissection, histological studies, and physiology are featured in the laboratory experience. A 120-minute laboratory is required.

Credit 4 **Prerequisites:** BIO 103

BIO 201 Human Anatomy and Physiology II

Human Anatomy and Physiology II cover the structure and function of the human body. Included is a study of basic nutrition, basic principles of water, electrolyte, and acid-base balance, the endocrine, respiratory, digestive, excretory, cardiovascular, lymphatic, and reproductive systems. Dissection, histological studies, and physiology are featured in the laboratory experience. A 120-minute laboratory is required.

Credits: 4 **Prerequisites:** BIO 201

BIO 220 General Microbiology

This course includes historical perspectives, cell structure and function, microbial genetics, infectious diseases, immunology, distribution, physiology, culture, identification, classification, and disease control of microorganisms. The laboratory experience includes micro-techniques, distribution, culture, identification, and control. Two 120-minute laboratories are required.

Credits: 4 **Prerequisites:** BIO 103. (Recommend 4 Semester Hours of Chemistry).

ENG 101 English Composition I

English Composition I provide instruction and practice in the writing of at least six (6) extended compositions and the development of analytical and critical reading skills and basic reference and documentation skills in the composition process. English Composition I may include instruction and practice in library usage.

Credits: 3 **Prerequisites:**
ENR 098 or appropriate English placement score.

MTH 100 Intermediate College Algebra

This course provides a study of algebraic concepts such as laws of exponents, polynomial operations, factoring polynomials, radical and rational expressions and equations and quadratic equations. Functions and relations are introduced and graphed. This course does not apply toward the general core requirement for mathematics.

Credits: 3 **Prerequisites:** MTH 098 Elementary Algebra or appropriate mathematics placement score.

MTH 110 Finite Mathematics

This course is intended to give an overview of topics in finite mathematics together with their applications, and is taken primarily by students who are not majoring in science, engineering, commerce, or mathematics (i.e., students who are not required to take Calculus). This course will draw on and significantly enhance the student's arithmetic and algebraic skills. The course includes sets, counting, permutations, combinations, basic probability (including Bayes' Theorem), and introduction to statistics (including work with Binomial Distributions and Normal Distributions), matrices and their applications to Markov chains and decision theory. Additional topics may include symbolic logic, linear models, linear programming, the simplex method and applications.

Credits: 3 **Prerequisites:** All core mathematics courses in Alabama must have as a minimum prerequisite high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score. An alternative to this is that the student should successfully pass with a C or higher (S if taken as pass/fail) MTH100 Intermediate College

MTH 112 Pre-Calculus Algebra

This course emphasizes the algebra of functions including polynomial, rational, exponential, and logarithmic functions. The course also covers systems of equations and inequalities, quadratic equations, and the binomial theorem. Additional topics may include matrices, Cramer's Rule, and mathematical induction.

Credits: 3 **Prerequisites:**

All core mathematics courses in Alabama must have as a minimum prerequisite high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score. An alternative to this is that the student should successfully pass with C or higher (S if taken as pass/fail) MTH100 Intermediate College Algebra.

PSY 210 Human Growth and Development

This course is a study of the psychological, social, and physical factors that affect human behavior from conception to death.

Credit: 3 **Prerequisites:** PSY 200.

SPH 106 Fundamentals of Oral Communication

This is a performance course that includes the principles of human communication: intrapersonal, interpersonal, and public. It surveys current communication theory and provides practical application. CORE

Credit: 3 **Prerequisites:**

As required by program.

NUR 112 Fundamental Concepts of Nursing

This course teaches the foundational knowledge of nursing concepts and clinical decision making to provide evidence-based nursing care. Content includes but is not limited to: healthcare delivery systems, professionalism, health promotion, psychosocial well-being, functional ability, gas exchange, safety, pharmacology, and coordinator/manager of care.

Credits: 7 **Prerequisites:**

Admission to Nursing Program

Corequisites: [BIO 201](#)

NUR 113 Nursing Concepts I

This course teaches the foundational knowledge of nursing concepts and clinical decision making to provide evidence-based nursing care. Content includes but is not limited to coordinator/manager of care, perfusion, oxygenation, infection, inflammation, tissue integrity, nutrition, elimination, mobility/immobility, cellular regulation, acid/base balance, and fluid/electrolyte balance.

Credits: 8 **Prerequisites:**

[BIO 201](#)

Corequisites:

[BIO 202](#) [ENG 101](#), [BIO 202](#) [ENG 101](#)

NUR 114 Nursing Concepts II

This course teaches foundational knowledge of nursing concepts and clinical decision making to provide evidence-based nursing care. Content includes but is not limited to coordinator/manager of care, sexuality, reproduction and childbearing, infection, inflammation, sensory perception, perfusion, cellular regulation, mood disorders and affect, renal fluid/electrolyte balance, and medical emergencies.

Credits: 8 **Prerequisites:** BIO 202, ENG 101, NUR 113

Corequisites: NUR 115 and SPH106 or 107

NUR 115 Adult Nursing

This course provides students with opportunities to collaborate with various members of the healthcare team in a family and community context. Students utilize clinical reasoning to assimilate concepts within the individual, health and nursing domains.

Credits: 2 **Prerequisites:** BIO 202

Corequisites: NUR 114 and SPH106 or 107