

University of South Carolina

Pre-Pharmacy Prerequisite Course Descriptions

Biology Course Descriptions (BIOL)

- **101 -- Biological Principles I. (4)** Introductory survey of macromolecules, cell structure and function, genetics, and molecular biology. Three lecture hours and three lab hours per week.
- **101L -- Biological Principles I Laboratory. (1)** Enrollment by special permission only. Intended for students who have taken BIOL 101 lecture or its equivalent but lack the lab. Three hours per week.
- **102 -- Biological Principles II. (4)** (Prereq: grade of C or better in BIOL 101) Introductory survey of plant and animal development, physiology, ecology, and evolution. Three lecture hours and three lab hours per week.
- **102L -- Biological Principles II Laboratory. (1)** Enrollment by special permission only. Intended for students who have taken BIOL 102 lecture or its equivalent but lack the lab. Three hours per week.
- **243 -- Human Anatomy and Physiology I. (3)** (Prereq: CHEM 102) Functional anatomy and physiology of the human body, including the integumentary, skeletal, muscular, and nervous systems. Not available for biology major credit. Three lecture hours per week.
- **244 -- Human Anatomy and Physiology II. (3)** (Prereq: BIOL 243) Functional anatomy and physiology of the human body, including the cardiovascular, endocrine, excretory, reproductive, digestive, and respiratory systems. Not available for biology major credit. Three lecture hours per week.

Chemistry Course Descriptions (CHEM)

- **111 -- General Chemistry I. (4)** (Prereq: MATH 111 or 115) Three lecture, one recitation, and two laboratory hours per week. A survey of the principles that underlie all chemistry with applications illustrating these principles.
- **112 -- General Chemistry II. (4)** (Prereq: MATH 111 or 115 and a grade of C or better in CHEM 111 or CHEM 141) A continuation of CHEM 111. Special emphasis on chemical equilibrium. Three lecture, one recitation, and three laboratory hours per week.
- **331L -- Essentials of Organic Chemistry Laboratory I. (1)** (Prereq or coreq: CHEM 333) Laboratory safety, syntheses, separation, and purification of carbon compounds. For non-majors.
- **332L -- Essentials of Organic Chemistry Laboratory II. (1)** (Prereq: CHEM 331L or, with permission of instructor, CHEM 333L; prereq or coreq: CHEM 334) Continuation of CHEM 331L. Spectroscopic identification of carbon compounds. For non-majors. Three lab hours per week.
- **333 -- Organic Chemistry I. (3)** (Prereq: CHEM 112 or CHEM 142) Contemporary theories, nomenclature, reactions, mechanisms, and syntheses of carbon compounds. Required for chemistry majors. Three lecture and one recitation hours per week.

- **334 -- Organic Chemistry II. (3)** (Prereq: CHEM 333) Continuation of CHEM 333. Required for chemistry majors. Three lecture and one recitation hours per week.

English Language and Literature Course Descriptions (ENGL)

- **101 -- Critical Reading and Composition. (3)** A course offering structured, sustained practice in close reading, critical analysis, and composing. Students will read a range of literary and nonliterary texts and write expository and analytical essays.
- **102 -- Rhetoric and Composition. (3)** (Prereq: ENGL 101) A course offering structured, sustained practice in researching, analyzing, and composing arguments. Students will read about a range of academic and public issues and write researched argumentative and persuasive essays.

Mathematics Course Descriptions (MATH)

- **111 -- Basic College Mathematics. (3)** (Prereq: qualification through placement) Basic college algebra; linear and quadratic equations, inequalities, functions and graphs of functions, exponential and logarithm functions, systems of equations. Credit may not be received for both MATH 111 and 115.
- **122 -- Calculus for Business Administration and Social Sciences. (3)** (Prereq: qualification through placement or a grade of C or better in MATH 111 or 115) Derivatives and integrals of elementary algebraic, exponential, and logarithmic functions. Maxima, minima, rate of change, motion, work, area under a curve, and volume.

Statistics Course Descriptions (STAT)

- **201 -- Elementary Statistics. (3)** (Prereq: MATH 111 or 115 or STAT 110, or consent of department) An introductory course in the fundamentals of modern statistical methods. Topics include descriptive statistics, probability, random sampling, tests of hypothesis, estimation, simple linear regression, and correlation.

Physics Course Descriptions (PHYS)

- **201 -- General Physics I. (3)** (Prereq: MATH 115, or MATH 122, or equivalent) First part of an introductory course sequence. Topics include mechanics, wave motion, sound, and heat. No previous background in physics is assumed.
- **202 -- General Physics II. (3)** (Prereq: a grade of C or better in PHYS 201) Continuation of PHYS 201; includes electromagnetism, relativity, quantum physics, atomic and nuclear physics.

Economics Course Descriptions (ECON)

- **224 -- Introduction to Economics. (3)** Micro- and macroeconomic principles of markets, government policy, and household or firm decision-making. Open to all students except business administration majors. Credit not granted for both ECON 224 and either 221 or 222.

Psychology Course Descriptions (PSYC)

- **101 -- Introduction to Psychology. (3)** An introduction to and survey of the basic concepts and findings within the field of psychology.

Speech Course Descriptions (SPCH)

- **140 -- Public Communication. (3)** Public speaking and the principles and criticism of oral public communication, to include performance by students.

Liberal Arts Electives typically come from the following course types:

- Anthropology
- Art
- English
- French
- History
- Music
- Political Science
- Psychology
- Religion
- Sociology
- Spanish
- Theatre

For more information on the University of South Carolina Undergraduate Academic Bulletin, please see the following link:

<http://www.sc.edu/bulletin/>