

Doctor of Physical Therapy (DPT) Undergraduate Pre-requisites

DPT Prerequisites	University of Scranton Equivalent Courses
<p>Biology with Labs 2 courses 6 credits minimum</p>	<p>BIOL 110 -111 8 credits (E) Human Anatomy and Physiology (Requires concurrent enrollment in lecture and lab) A general study of the anatomy and physiology of the human organism, emphasizing the body's various coordinated functions from the cellular level to integrated organ systems. Three hours lecture, two hours lab each semester.</p> <p>or</p> <p>BIOL 141 -142 9 credits (E) General Biology (Requires concurrent enrollment in lecture and lab) A comprehensive study of the nature of living organisms, both plant and animal, their structure, function, development and relationships, including the problems of development, heredity and evolution. Three hours lecture, three hours lab each semester.</p>
<p>General Chemistry with Labs 2 courses 6 credits minimum</p>	<p>CHEM 112 -113 6 credits (E) General and Analytical Chemistry A study of the laws, theories and principles of general chemistry together with qualitative and quantitative analysis. Three hours lecture each semester.</p> <p>and</p> <p>CHEM 112L -113L 3 credits General and Analytical Chemistry Laboratory (Lecture is required as pre-or co-requisite; CHEM 112L is prerequisite for CHEM 113L) Experiments involve semi-micro techniques for qualitative and quantitative analysis (gravimetric and volumetric analysis). Three hours laboratory each semester.</p>
<p>Physics with Labs 2 courses 6 credits minimum</p>	<p>PHYS 120 -121 8 credits (E) General Physics I and II (Prerequisites: MATH 103 -114) General college course for pre-medical, pre-dental, biology, biochemistry and physical therapy majors. Mechanics, heat, electricity and magnetism, sound and light. Three hours lecture and two hours lab.</p> <p>or</p> <p>PHYS 140 – 141 8 credits (E) Elements of Physics I and II (Co-requisite: MATH 114 – 221) Calculus-based introduction to the elements of physics. Topics covered: mechanics, heat, sound, light and electricity and magnetism. Required of Physics, Electrical Engineering, Mathematics, Computer Science and Chemistry majors. Three hours lecture and two hours laboratory.</p>
<p>Human Anatomy and/or Physiology 1 course 3 credits</p>	<p>BIOL 245 4.5 credits (O) General Physiology (Prerequisites: BIOL 110-111 or BIOL 141-142. CHEM 112-113; requires concurrent enrollment in lecture and lab) Physiological process underlying functioning of the animal organism. Study of irritability, excitation, conduction, contractility, cellular physiology and functions of mammalian</p>

	organ systems. Three hours lecture, three hours lab.
Fundamental Psychology** 1 course 3 credits	PSYC 110 3 credits (S) Fundamentals of Psychology An introduction to the scientific study of behavior through a survey of psychology's principal methods, content areas and applications. Course requirements include participation on psychological research or preparation of a short article review.
Advanced Psychology 1 course 3 credits	PSYC 221 3 credits (S) Childhood (Prerequisite: PSYC 110) Survey of psychological research dealing with the development and behavior of children. The physical, cognitive and social aspects of child development are considered. or PSYC 222 3 credits (S) Adulthood and Aging (Prerequisite: PSYC 110) Survey of psychological research dealing with the age-graded aspects of behavior in adulthood. Course will consider the physical, cognitive and social aspects of the aging process from late adolescence to death. Topics include occupation selection, marriage, parenthood, middle age, retirement and dying. or PSYC 225 3 credits (S) Abnormal Psychology (Prerequisite: PSYC 110) A comprehensive survey of mental and behavioral disorders from biological, psychological, and sociocultural perspectives. The course will consider diagnosis and labeling, overview of specific disorders and various treatment approaches. or PSYC 231 3-4.5 credits (E) Behavioral Neuroscience (Prerequisite: PSYC 110 or BIOL 1451-142) Introduction to the field of neuroscience, examining the cellular bases of behavior, effects of drugs and behavior, brain/body correlates of motivation and emotion, and neural changes accompanying pathology. Three hours lecture and optional 1.5-credit laboratory, PSYC 231L. Lab fee; lab offered fall only (Credit cannot be earned for both NEUR231 and PSYC 231) or PSYC238 3 credits Exercise and Sport Psychology (Prerequisite: PSYC 110) The course covers cognitive-behavioral principles of motivation, goal setting, reinforcement, emotional regulation, attention control, imagery, and positive thinking and the psychological benefits of exercise and exercise adherence. Areas of application in sport include preparation for competition, group and team dynamics, leadership, aggression in sport, and character development sportsmanship.
Statistics** 1 course 3 credits	EDUC 120 3 credits (Q,W) Applied Statistics (Prerequisite: WRTG 107) This course is designed to enable students to use statistics to

solve problems and communicate clearly the procedures employed and the results obtained. Students will be required to perform statistical computations and to write as a means of learning the course material. Topics covered include hypothesis testing, correlation, t-test and chi-square test.

or

PSYC 210 3 credits **(Q) Statistics in the Behavioral Sciences**
Basic statistics in the behavioral sciences, including organization and display of data; measures of central tendency; variability; correlation and regression; one-and two-sample t-tests; confidence intervals, one-way and two-way analysis of variance, chi-square; and consideration of effect size, power and null hypothesis testing including types of errors. Introduction to the computerized statistical-analysis package SPSS-PC.

or

MATH 204 3 credits **(Q) Introduction to Statistics**
Study of the computational aspects of statistics; hypothesis testing, goodness of fit; nonparametric tests; linear and quadratic regression, correlation and analysis of variance. Not open to students who have credit for or are enrolled in an equivalent statistics course

** AP Credit can be used as pre-requisites for starred courses ONLY.

All Courses are independent of each other. No course can be used to meet more than 1 pre-requisite.