

Biology

Biology, Pre-Dental, Pre-Medical or Pre-Veterinary Medicine majors

Suggested Course of Study for University Transfer Students (60-63 Credit Hours)

Freshman Year	Sophomore Year
PSYC 1100 or EDUC 1100 BIOL 1406 BIOL 1407 ENGL 1301 ENGL 1302 HIST 1301 HIST 1302 (MATH 1314)* PHED 1134 PHED Activity (1 Credit Hour) Social/Behavioral Science (3 Credit Hours) SPCH 1315 or 1321	(BIOL 2420 - Health/Nursing Related) CHEM 1411 CHEM 1412 GOVT 2305 GOVT 2306 (MATH 1316)* MATH 2413 PHYS 1401 Visual/Fine Arts (3 Credit Hours) Humanities (3 Credit Hours)

*Students with two years of high school algebra and trigonometry may start with MATH 2413. Note: Completion of the Field of Study may require an additional term(s). These courses may be required by some universities: COSC 1401, MATH 2414, CHEM 2423 and CHEM 2425.

Physical Therapy

Suggested Course of Study for University Transfer Students (67-70 Credit Hours)

Freshman Year	Sophomore Year
PSYC 1100 or EDUC 1100 CHEM 1411 CHEM 1412 ENGL 1301 ENGL 1302 HIST 1301 HIST 1302 MATH 1314 PHED 1134 PHED Activity (1 Credit Hour) Social/Behavioral Science (3 Credit ours) SPCH 1315 or 1321	BIOL 2401 BIOL 2402 BIOL 2420 GOVT 2305 GOVT 2306 PHYS 1401 Visual/Fine Arts (3 Credit Hours) Humanities (3 Credit Hours)

Note: completion of the Suggested Course of Study may require an additional term(s). These classes should be completed in additional terms: COSC 1401, MATH 2413, MATH 2414 & PHYS 1402.

- BIOL 1322 Nutrition (19.0502.51 09) 3.3.0**
A study of the basic principles of human nutrition. The major food groups, minerals and vitamins will be studied.
- BIOL 1406 Majors Biology 4.3.3**
Four credit hours. Designed for the science major or minor. Emphasis will be placed on cellular and molecular biology. Topics will include basic biochemistry, cellular structure-function, division and communication, bioenergetics, cellular metabolism, Mendelian and molecular genetics, gene technology, prokaryotic and eukaryotic genome organization, regulation and evolution, DNA-RNA structure and function, and transcription and translation. High School Chemistry recommended; Lab Fee required.
- BIOL 1407 Majors Biology 4.3.3**
Four credit hours. Designed for the science major or minor. Emphasis will be placed on evolutionary biology. Topics will include evolution, the origins of life, phylogeny and systematics, comprehensive studies of the Kingdoms of life including taxonomy, studies of animal systems, ecology, and behavior. Prerequisite: BIOL 1406 or instructor consent; Lab Fee required.
- BIOL 1408 General Biology I (Non-majors) (26.0101.51 03) 4.3.3**
Fundamental principles of living organisms including physical and chemical properties of life, organization, function, evolutionary adaptation, and classifications. Concepts of reproduction, genetics, ecology, and the scientific method are included. Lab required. Fee charged. Core Curriculum satisfied for Natural Lab Sciences.
- BIOL 1409 General Biology II (Non-majors) (26.0101.51 03) 4.3.3**
A continuation of BIOL 1408. Fundamental principles of living organisms including physical and chemical properties of life, organization, function, evolutionary adaptation, and classifications. Concepts of reproduction, genetics, ecology, and the scientific method are included. Lab required. Fee charged. Core Curriculum satisfied for Natural Lab Sciences.
- BIOL 2306 Environmental Biology (03.0102.51 01) 3.3.3**
An introduction to basic ecological principles and techniques. Aquatic and terrestrial communities will be studied with emphasis upon biotic interrelationships. The laboratory will combine experimental studies with field investigations. Fee charged. Prerequisite: two semesters of Biology or consent of instructor.
- BIOL 2316 Principles of Genetics (26.0613.51 03) 3.3.3**
A study of the basic laws of genetics and their application to plants, animals and man. Genetics problems are emphasized. Fee charged. Prerequisite: one year of Biology or the equivalent.

- BIOL 2401 Human Anatomy and Physiology (26.0706.51 03)** 4.3.4
A study of the structure and function of the organ systems of the human body. Particular emphasis will be placed on physiology. Lab required. Fee charged. Core Curriculum satisfied for Natural Lab Sciences.
- BIOL 2402 Human Anatomy and Physiology (26.0706.51 03)** 4.3.4
Continuation of Biology 2401. A study of the structure and functions of the organ systems of the human body. Particular emphasis will be placed on physiology. Lab required. Fee charged. Core Curriculum satisfied for Natural Lab Sciences. Prerequisite: BIOL 2401 or consent of instructor.
- BIOL 2420 Microbiology (26.0501.51 03)** 4.3.4
Study of morphology, physiology, and taxonomy of representative groups of pathogenic and nonpathogenic microorganisms. Emphasis is placed on the role of microbes in relation to human disease and the immune system. Study will include the immunologic, pathologic, and epidemiological factors associated with diseases. Lab required. Fee charged. Prerequisite: eight hours of biology or chemistry, or consent of the instructor.
- BIOL 2428 Comparative Vertebrate Anatomy (26.0701.53 03)** 4.3.4
An anatomical study of the vertebrates with major emphasis on the comparison of their organ systems. Vertebrate relationships, origins and adaptations. Representative forms in the laboratory. Fee charged. Prerequisites: two semesters of biology.

Biomedical Science

2+2 Articulation with Texas A&M University

Biomedical Science is the broad field of applied biology related to health and disease. Biomedical Science baccalaureate graduates are primed to enter such professional schools as human medicine, veterinary medicine, dentistry, osteopathy, podiatry, optometry, pharmacy and law, just to name a few, or careers in laboratory and research science. You may also choose a career as a biomedical scientist and continue into graduate study in this field.

Paris Junior College has been selected as one of a handful of two-year institutions to enter into a 2+2 articulation agreement with Texas A&M University in College Station to provide a seamless transition from Paris Junior College into the Biomedical Science program located in the College of Veterinary Medicine at Texas A&M University.

This agreement serves to facilitate the admission and academic transfer of students from Paris Junior College to the Biomedical Science Program (BIMS) in A&M's College of Veterinary Medicine. As students progress successfully toward the completion of the Associate of Science degree at Paris Junior College, this agreement will ensure the seamless transition of students into the BIMS program, according to the provisions and conditions below.