BIOLOGICAL SCIENCES: PRE-ALLIED HEALTH ASSOCIATE IN SCIENCE

This program provides students with a pathway into allied health programs at baccalaureate institutions. Required science courses provide training in the methods of scientific inquiry, the fundamental principles of natural science, and the principle laws and theories governing the physical and life sciences. Recommended general education courses expose students to the necessary base of knowledge that will serve them well in any of the allied health fields. This degree is for students who plan to complete their formal education at the community college level, or for transfer to a baccalaureate institution, or for advanced studies in an allied health major. Prior to enrolling in several courses in this major, students must take general biology and general biology laboratory (Bio 120 or equivalent) as prerequisites. *It is recommended that students check with transfer institutions for specific program requirements.*

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the principles and laws of living systems with particular reference to human disease and human performance, including the role of scientific inquiry in life/medical science, cell theory, the hierarchy of structure and function in living organisms, and principles of heredity.
2. Describe the normal relationships between structure and function relationships of humans, alterations in normal structure/function that characterize disease; the structure, function, classification and epidemiology of pathogenic microorganisms; and cellular and nutritional biochemistry.
3. Exhibit competency in the methods used to study living systems, with a focus on human biology including applying principles and procedures of research and experimental design, and gathering, organizing interpreting, evaluating and communicating data.
4. Exhibit confidence and ability to function as a health care professional including the ability to conduct independent and collaborative investigation skills, communicate scientific information electively in oral and written form, and utilize technology e#ectively and appropriately.
5. Exhibit the ability to integrate the content, skills and abilities gained in courses and practice independent, self- directed learning.

Associate Degree Requirements

Note: All courses must be completed with a letter grade of "C" or higher or "Pass."

Code	Title	Units
BIO-120	Principles of Biology	4
BIO-140	Human Anatomy	4
BIO-141	Human Physiology	3
BIO-141L	Laboratory in Human Physiology	1
BIO-152	Paramedical Microbiology	5
CHEM-102	Introduction to General, Organic and Biological Chemistry	5
COMM-C1000	Introduction to Public Speaking	3
PSYC-C1000	Introduction to Psychology	3
SOC-120	Introductory Sociology	3
Total Units		**31**

Plus General Education (https://catalog.gcccd.edu/grossmont/admission-information/general-education-transfer/) and Elective Requirements

*ALTERNATIVELY: BIO 144 (4 units) and BIO 145 (4 units) can be substituted for BIO 140 + BIO 141 + BIO 141L. Note that the student must complete either series (i.e., BIO 144 and BIO 145 or BIO 140 and BIO 141 and BIO 141L but cannot mix and match across the series. For example, a combination of BIO 144 and BIO 10 would not meet requirements.)

Recommended Electives: CD 125 Child Growth and Development or PSY 150 Developmental Psychology; STAT C1000 Introduction to Statistics or BIO 215 Biostatistics, PSY 140 Physiologic Psychology; Bio 118 Human Biology; BOT 161 Medical Terminology