# PRE-ALLIED HEALTH SCIENCES, CERTIFICATE OF ACHIEVEMENT

The Pre-Allied Health Sciences Certificate of Achievement will provide students with a strong biology and chemistry foundation in preparing for allied health career fields such as nursing, dental hygiene, medical laboratory technology, and physical therapy. The Pre-Allied Health Sciences Certificate of Achievement includes the prerequisites for Registered Nursing programs at two-year colleges, and is transferable to Nursing and Health Science majors at various four-year institutions. Some variation in degree requirements may exist for a particular Allied Health program; therefore, it is essential that students refer to the catalog of their intended transfer institution and contact a counselor to ensure that all required coursework is completed.

| Course ID | Title | Units/ Hours |
|---|---|---|
| **REQUIRED COURSES (12 units):** | | |
| ANAT V01 | Human Anatomy | 4 |
| PHSO V01 | Human Physiology | 4 |
| MICR V01 | General Microbiology | 4 |
| **REQUIRED ADDITIONAL COURSES (5 units):** | | |
| **Choose one of the following options:** | | |
| CHEM V01A & V01AL | General Chemistry I and General Chemistry I Laboratory | 3+2 |
| OR | | |
| CHEM V20 & V20L | Elementary Chemistry and Elementary Chemistry Laboratory | 4+1 |
| OR | | |
| CHEM V30 & V30L | Chemistry for Health Sciences and Chemistry for Health Sciences Laboratory | 4+1 |
| OR | | |
| PHYS V01 | Elementary Physics | 5 |
| --- | --- | |
| **TOTAL** | | **17** |

| **Year 1** | | |
|---|---|---|
| **Fall Semester** | | **Units/Hours** |
| ANAT V01 | Human Anatomy | 4 |
| CHEM V30 | Chemistry for Health Sciences | 4 |
| CHEM V30L | Chemistry for Health Sciences Laboratory | 1 |
| | **Units/Hours** | **9** |
| **Spring Semester** | | |
| PHSO V01 | Human Physiology | 4 |
| | **Units/Hours** | **4** |
| **Year 2** | | |
| **Fall Semester** | | |
| MICR V01 | General Microbiology | 4 |
| | **Units/Hours** | **4** |
| | **Total Units/Hours** | **17** |

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

- Students will describe the relationship between the individual gross anatomy components of the organ systems of the human body and relate the composition of these systems to their function.
- Students will demonstrate an understanding of the cardiac cycle as well as the electrical conduction system that regulates it, and will describe the relationship between the components of the electrocardiogram, the electrical activity of the heart, and the mechanical events of the cardiac cycle.
- Students will compare and contrast taxonomy, biological significance, genetics, and metabolism of microorganisms.