

HEALTH SCIENCES, ASSOCIATE IN SCIENCE

The Health Sciences program will provide students with a strong biology and chemistry foundation and prepare them for entry into a variety of healthcare programs. Coursework for the degree includes some of the prerequisites for occupations such as nursing, physician assistant, dental hygiene, physical therapy, occupational therapy, pharmacy, medical laboratory technology, radiologic technology, and emergency medical services. Some variation in degree requirements may exist for a particular healthcare 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.

To earn this degree, students must complete the required courses with a "C" grade or higher.

Course ID	Title	Units/ Hours
Required Core Courses (19 units):		
ANAT V01	Human Anatomy	4
ENGL V01A	English Composition	4
MICR V01	General Microbiology	4
PHSO V01	Human Physiology	4
PSY V01 or SOC V01	Introduction to Psychology Introduction to Sociology	3
Required Additional Courses:		
List A: Select one (1) of the following courses; students must also complete the affiliated laboratory course when indicated (3–5 units):		
BIOL V01 & V01L	Principles of Biology and Principles of Biology Laboratory	3+1
BIOL V12	Human Biology	3
BIOL V18	Human Heredity	3
CHEM V01A & V01AL	General Chemistry I and General Chemistry I Laboratory	3+2
CHEM V20 & V20L	Elementary Chemistry and Elementary Chemistry Laboratory	4+1
CHEM V21 & V21L	Introduction to Organic and Biochemistry and Introduction to Organic and Biochemistry Laboratory	3+2
CHEM V30 & V30L	Chemistry for Health Sciences and Chemistry for Health Sciences Laboratory	4+1
PHYS V01	Elementary Physics	5
PHYS V02A & V02AL	General Physics I: Algebra/Trigonometry- Based and General Physics I Laboratory: Algebra/ Trigonometry-Based	4+1
PHYS V03A & V03AL	General Physics I: Calculus-Based and General Physics I Laboratory: Calculus-Based	4+1
PHYS V04 & V04L	Mechanics for Scientists and Engineers and Mechanics Laboratory for Scientists and Engineers	4+1
List B: Select one (1) of the following courses (3 units):		

BUS V27A	Beginning Medical Terminology	3
COMM V01	Introduction to Speech Communication	3
COMM V15	Interpersonal Communication	3
HED V20	Introduction to Public Health	3
NS V07	Pharmacology	3
SOC V02	Social Problems	3
SOC V03/AES V11	Racial and Ethnic Group Relations	3

General Education

This A.S. degree requires completion of the Ventura College General Education pattern.

Total Required Major Units	25–27
Ventura College General Education Pattern	29
Double-Counted Units	(10–16)
Free Electives Required	15–20
Total Units Required for the A.S. Degree	60

Year 1

Fall Semester	Units/Hours	
PSY V01 or SOC V01	Introduction to Psychology or Introduction to Sociology	3
Restricted elective selected from List A of the program requirements	3-5	
PSY V04 or transfer-level course in MATH	4	
AA/AS GE or free elective	3	
AA/AS GE Area E2	1	
Units/Hours	14-16	

Spring Semester

ANAT V01	Human Anatomy	4
ENGL V01A	English Composition	4
AA/AS GE or free elective	3	
AA/AS GE or free elective	3	
Units/Hours	14	

Summer Semester

AA/AS GE or free elective	3
Units/Hours	3

Year 2

Fall Semester

PHSO V01	Human Physiology	4
Restricted elective selected from List B of the program requirements	3	
AA/AS GE or free elective	3	
AA/AS GE or free elective	3	
AA/AS GE or free elective	3	
Units/Hours	16	

Spring Semester

MICR V01	General Microbiology	4
AA/AS GE or free elective	3	
AA/AS GE or free elective	3	
AA/AS GE or free elective	3	
Units/Hours	13	

Total Units/Hours 60-62

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

- 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.

- Describe how the body maintains homeostasis and predict how it will respond when compensating for deviations from homeostasis.
- Compare and contrast taxonomy, biological significance, genetics, and metabolism of microorganisms.