

Palo Verde College

Program Outline Report

Program Basics

Program Title:	Science Core for Nursing Certificate of Achievement
Program Status:	Active from 2025-2026 Fall (2025FA)
Department:	Biology
Award Type:	Certificate of Achievement (Credit)
Program/Catalog Description	Science Core for Nursing Certificate of Achievement is designed to ensure the students are equipped for successful completion of key courses toward the Allied Health programs and also to provide a fundamental background for successful completion of the scientific portion of the ATI Test of Essential Academic Skills (TEAS). This program satisfies the core science requirements for the Allied Health programs and enables the students with problem solving and critical thinking abilities necessary to enter Allied Health programs.
Control Number:	No value
Credential ID:	No value
Transferability:	No value
(SP01) Program TOP Code:	0499.00
(SP01) Program TOP Code:	Other Biological Sciences
(SP02) Student Program Award:	Certificate requiring 16 to fewer than 30 semester units
Maximum Credits:	19
Minimum Credits:	18
Curriculum Committee Approval Date:	12/12/2024
Board of Trustees Approval Date:	05/13/2025
External Review Approval Date:	05/13/2025

Proposal Details

Proposal Start:	2025-2026 Fall (2025FA)
What changes have been made to the program:	No value
Program Justification:	Students entering the Allied Health programs are required to complete key science courses presented in this Certificate of Achievement. This program seeks to provide the students with the science core and develop their abilities for critical thinking and problem-solving skills. The laboratory requirements enable students to experience hands-on experience which is of vital importance for their future career in either science or allied health professions.

Submission Rationale

- New Program

Program Requirements

Science Core for Nursing Certificate of Achievement (Total 18-19)

Complete the following number of credits: 18-19

Required Core courses (Total 14)

Complete all of the following

BIO111 - Basic Microbiology	5
BIO210 - Human Anatomy	4
BIO211 - Human Physiology	5

Choose one of the following (Total 4-5)

Complete the following number of credits: 4-5

CHE101 - Introduction to General Chemistry	4
CHE109 - Chemistry for Health Sciences and Nursing Disciplines	5

Recommended Sequences

New Sequence

Term 1 (Total 8-10)

Science Core for Nursing Certificate of Achievement (Total 4-5)

Take one of the following

BIO210 - Human Anatomy	4
CHE109 - Chemistry for Health Sciences and Nursing Disciplines	5

Science Core for Nursing Certificate of Achievement (Total 4-5)

Take one of the following

BIO210 - Human Anatomy	4
CHE101 - Introduction to General Chemistry	4
CHE109 - Chemistry for Health Sciences and Nursing Disciplines	5

Term 2 (Total 5)

Science Core for Nursing Certificate of Achievement (Total 5)

Take one of the following

BIO111 - Basic Microbiology	5
BIO211 - Human Physiology	5

Program Outcomes

Science Core for Nursing Certificate of Achievement

PSLO

Performance

1. Articulate the structure function relationships within the human body.	70
2. Differentiate between commonly encountered infectious and non-infectious disease states in humans.	70
3. Evaluate the impacts of society and the environment on human health outcomes.	70
4. Apply basic laboratory skills and analytical methods to test a scientific hypothesis.	70
5. Evaluate related scientific information based on the strength and quality of supporting evidence.	70

Program Narrative

Narrative Item 1. Program Goals and Objectives

This Science Core for Nursing Certificate of Achievement enables the students to fulfill the prerequisites for their allied health program and gives them a solid foundation of the human body, including human anatomy and physiology and deep understanding of the microbiological world and the effects on pathogens on the functions of the human body. This program is also designed to successfully prepare the students entering the allied health program for the scientific portion of the ATI Test of Essential Academic Skill (TEAS).

1. Articulate the structure-function relationship within the human body
2. Differentiate between commonly encountered infectious and non-infectious disease states in humans
3. Evaluate the impact of society and the environment on human health outcomes
4. Apply basic laboratory skills and analytical methods to test a scientific hypothesis
5. Evaluate related scientific information based on the strength and quality of supporting evidence

Narrative Item 2. Catalog Description

Science Core for Nursing Certificate of Achievement is designed to ensure the students for a successful completion of key courses toward the allied health programs and also to provide a fundamental background for successful completion of the scientific portion of the ATI Test of Essential Academic Skills (TEAS). This program satisfies the core science requirements for the allied health programs and enables the students with problem solving and critical thinking abilities necessary to enter allied health programs.

Narrative Item 3. Program Requirements

Science Core for Nursing Certificate of Achievement (Total 18-19 units):

- BIO111 Microbiology (5 units)
- BIO210 Human Anatomy (4 units)
- BIO211 Human Physiology (5 units)
- CHE109 Chemistry for Health Science and Nursing Discipline (5 units)

OR

- CHE101 Introduction to General Chemistry (4 units)

GE Requirements (24-25 units)

- Communication (6 units total)
 - ENG100, ENG103, SPE102, SPE103
- Natural Sciences (3 units)
 - ANT100, AST100, AST105, AST110, BIO100, BIO101, BIO111, BIO190, BIO191, BIO210, BIO211, CHE101, CHE109, CHE210, CHE211, GEL101, GEL103, GEL105, PHY100
- Mathematics (3-4 units)
 - MAT095, MAT106, MAT108, MAT110, MAT210, MAT220, PSY155
- Humanities (6 units)
 - ART101, ART106, ART110, ART111, ART120, ART125, ASL131, ASL132, ASL134, ASL135, ENG102, ENG120, ENG125, ENG140, ENG222, HIS110, HIS120, HIS130, HIS140, HIS115, HIS125, MUS121, MUS127, MUS131, MUS132, MUS135, MUS137, MUS141, MUS142, MUS150, MUS161, MUS162, MUS233, MUS234, MUS261, MUS262, MUS280, PHI100, PHI120, SPA101, SPA102, THA110, THA114, THA151, THA152, THA171, THA191, THA192, THA280, THA290
- Social Sciences (3 units)
 - ANT101, ANT102, ANT107, ANT201, CHD101, CHD102, CHD231, CHD232, CRJ103, CRJ220, ECO105, ECO106, ETH101, ETH210, GGR103, PSY101, PSY110, PSY115, PSY145, PSY150, PSY201, PSY203, PSY205, PSY210, PSY215, PSY220, SOC101, SOC111, SOC115, SOC120, SPE105, SPE130
- Ethnic Studies (3 units)
 - ETH210

Proposed Course Sequence

- Semester 1

Course #	Course Title	Units	Area
BIO 100	General Biology	4	5
BIO 101	General Biology Lab	1	5
CHE101 or CHE 109	General Chemistry or Chemistry for Health majors	4-5	5
ENG 100	College Composition	3	1A

- Semester 2

Course #	Course Title	Units	Area
BIO 210	Human Anatomy	4	5
BIO 111	Basic microbiology	5	5
ENG 103	Critical Thinking and Composition	3	1B
STATC1000	Statistics	3	2

- Semester 3

Course #	Course Title	Units	Area
BIO211	Human Physiology	5	5
SPE 101 or SPE102 or SPE103	Intro to Speech, Public Speaking, Argument and Debate	3	1C
Any class from Area 4		3	4
Any class from Area 3		3	3

- Semester 4

Course #	Course title	Units	Area
ETH 101 or ETH 201	Ethnic Studies	3	6
Any class from Area 3		3	3
Any class from Area 4		3	4

Narrative Item 4. Master Planning

Allied health programs require students to take a series of prerequisites before entry. All of these programs require successful completion of a core set of science courses including courses in Anatomy, Physiology, Microbiology, and Chemistry. The Science Core for Nursing Certificate of Achievement is designed to ensure the successful completion of these key courses as well as provide a fundamental background of the scientific portion of the ATI Test of Essential Academic Skill (TEAS) or HESI test as required for entrance of any of the allied health programs.

Narrative Item 5. Enrollment and Completer Projections

This program allows for at least 40 students per year as it will prepare students for their future careers in the allied health profession.

Narrative Item 6. Place of Program in Curriculum/Similar Programs

This is a quality program that will allow better placement in any allied health program as it will positively impact their scores on the TEAS and HESI tests

Narrative Item 7. Similar Programs at Other Colleges in Service Area

There are no other programs like this near us