

# HEALTH SCIENCES, COA

## Program Code: Health Sciences-CoA

### Program Description

The Health Sciences, Certificate of Achievement prepares students for entry-level employment in allied health and fulfills many prerequisite requirements for accredited health sciences training programs. Students completing this certificate may gain an advantage in the competitive selection process of health sciences programs.

Health Sciences Career Map (<https://sites.tmcc.edu/flipbook/career-maps/35/>)

### Recommended Course Schedule

1st semester		Units
ENG 101 or ENG 100 or ENG 113	Composition I or Composition Enhanced or Composition I for International and Multilingual Students	3
Elective <sup>6</sup>		3
Human Relations <sup>5</sup>		3
Mathematics <sup>6</sup>		3
<b>Semester Total</b>		<b>12</b>
2nd semester		Units
BIOL 190A or BIOL 189A	Introduction to Cell and Molecular Biology or Fundamentals of Life Science	3
BIOL 190L	Introduction to Cell and Molecular Biology Laboratory	1
Elective <sup>6</sup>		6
<b>Semester Total</b>		<b>10</b>
3rd semester		Units
BIOL 223	Human Anatomy and Physiology I (Fast track)	4
BIOL 224	Human Anatomy and Physiology II (Fast Track)	4
<b>Semester Total</b>		<b>8</b>
<b>Total Units</b>		<b>30</b>

<sup>5</sup> See approved General Education list for the AAS Degree. (<https://catalog.tmcc.edu/degrees-certificates/general-education/aas/>)

<sup>6</sup> See program recommendation or requirements

### Program Requirements

Certificates of Achievement can be a stepping stone to an associate degree or allow students to enter the workforce. Certificates of Achievement have a general education component.

To earn a Certificate of Achievement, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 semester credit hours within the college.

3. Satisfy General Education requirements for the Certificate of Achievement (<https://catalog.tmcc.edu/degrees-certificates/general-education/aas/>).
4. Have no financial or library obligation to the college.

Code	Title	Units
<b>GENERAL EDUCATION REQUIREMENTS</b>		
<i>Communications</i>		
Required:		
ENG 101 or ENG 100 or ENG 113	Composition I Composition Enhanced Composition I for International and Multilingual Students	3
<i>Human Relations</i>		3
<i>Mathematics</i>		
Required:		
MATH 120	Fundamentals of College Mathematics (or higher)	3
Recommended:		
MATH 126	Pre-Calculus I	
<b>CERTIFICATE REQUIREMENTS</b>		
BIOL 190A or BIOL 189A	Introduction to Cell and Molecular Biology Fundamentals of Life Science	3
BIOL 190L	Introduction to Cell and Molecular Biology Laboratory	1
BIOL 223	Human Anatomy and Physiology I	4
BIOL 224	Human Anatomy and Physiology II	4
<b>ELECTIVE REQUIREMENTS</b>		
Select 9 units from the following:		9
BIOL 251	General Microbiology <sup>1</sup>	
PBH 220	Introduction to Public Health Biology	
CHEM 121	General Chemistry I <sup>1</sup>	
CLS 151	Phlebotomy <sup>2</sup>	
CLS 152	Applied Phlebotomy <sup>2</sup>	
CLS 153	Phlebotomy Clinical Practicum <sup>2</sup>	
HIT 180	Health Information Management <sup>1</sup>	
NURS 130	Nursing Assistant <sup>3</sup>	
NURS 140	Medical Terminology <sup>4</sup>	
PHYS 100	Introductory Physics <sup>1</sup>	
RAD 101	Exploration of Radiology (RAD 101 from .5 to 1 credit) <sup>3</sup>	
SRGT 101	Introduction to Surgical Technology <sup>4</sup>	
Or any of the following subjects: BIOL, PBH, CHEM, PHYS, NUTR, SRGT, DA, DH, EMS, and NURS.		
<b>Total Units</b>		<b>30</b>

<sup>1</sup> Will count towards the Admission Criteria Point System for the Radiologic Technology, AAS. Please consult with Academic Advising.

<sup>2</sup> Will count towards the Phlebotomy Skills Certificate.

<sup>3</sup> Required for application and admission into the Radiologic Technology, AAS. Please consult with Academic Advising.

<sup>4</sup> Required for College of Southern Nevada's Surgical Technology, AAS.  
Please consult with Academic Advising.

## Program Outcomes

Students completing the certificate will:

PSLO1: Apply the scientific method, describe cell and tissue structure, and describe skeletal, muscular, digestive and lymphatic systems and their interrelationships.

PSLO2: Identify the components of the circulatory, nervous, integumentary, respiratory, endocrine, urinary, reproductive and immune systems and describe their interrelationships